

*TRAISTE TAMMINEEN,
WORTHINGTON. 2.14408
ONT, P.O. 5A0*



41105NW0009 002381 PORTER

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REPORT
ON
RIVET CLAIM GROUP
PORTER AND VERNON TOWNSHIPS
DISTRICT OF SUDBURY
ONTARIO

L. D. S. WINTER
MAY 23, 1980

signed on file

2.1503

A. INTRODUCTION

1. Location and Access

The claim group of Mr. R. Rivet, 1959 Madison Avenue, Sudbury is located in Porter and Vernon Townships in the District of Sudbury, Ontario. The centre of the group is approximately 40 miles west of Sudbury and 12 miles north of the town of Espanola at $46^{\circ} - 27'N$; $81^{\circ} - 45'W$.

The property can be reached most easily by a short helicopter flight from Sudbury. Access can be gained by road by taking Highway 144 north to Cartier, a secondary road west to Fox Lake and then an abandoned logging road to Porter Township, a distance of about 30 miles from Cartier.

2. Property

The property consists of a block of 76 unpatented mining claims in the north-central part of Porter Township (60 claims) and the south-central part of Vernon Township (16 claims).

3. Purpose of Work

The property was visited on May 3rd and May 6, 1980 for the purpose of appraising and sampling a mineralized quartz vein located on claim S514933.

B. SUMMARY AND CONCLUSIONS

1. The rocks in the claim group area are part of the eastern limb of the north-south trending Shiner syncline of Apebian age. Quartzo-feldspathic sandstones and argillites or graywackes rest unconformably on Archean granites and gneisses. A diabase sill overlies the sediments to the west. The mineralized showing is a quartz vein which occurs in a much larger north-west trending zone of faulting and generally barren quartz veining.
2. Earlier surface work and drilling showed that the mineralized quartz vein was about 20 feet wide and it was traced for over 300 feet. The vein occurs in a shear zone in altered argillite or graywacke. The shear zone and vein strike $S55^{\circ}E$ and dip steeply north. (Figure 1)
3. The vein is mainly massive white quartz with erratically distributed pyrrhotite with lesser amounts of galena, chalcopyrite and sphalerite. The sulphides occur as both massive blebs and as widely disseminated grains.

4. Due to the erratic distribution of the sulphide minerals in the quartz vein it is difficult to obtain representative samples other than by bulk sampling.
5. Two trenches were chip sampled across the full width of the vein (Figure 1) and the results are as reported below.

<u>TRENCH</u>	<u>WIDTH</u> <u>ft.</u>	<u>Ag</u> <u>oz/T</u>	<u>Au</u> <u>oz/T</u>	<u>Pb</u> <u>%</u>	<u>Cu</u> <u>%</u>
1	20	0.50	.0015	0.22	.05
2	16	0.56	.001	0.42	.04

6. In 1963, the examining engineer for Ferco Mines Limited thought that erratic or "secondary" silver had been introduced into the drill core samples. During his assaying, steps were taken to compensate for this situation which may have given assay values from the drill core that were too low.
7. Due to the erratic distribution of the mineralization and the problems of "erratic" silver values in the earlier work it is difficult to arrive at a true estimate of the value of the mineralization based on work to date.
8. The mineralized showing is only one of a large number of quartz veins (generally barren) in a large southeast-northwest trending zone. (Ontario Ministry of Natural Resources G.R. 5, Map No. 2011, Porter Township) Mr. R. Rivet has indicated there are other small showings within this general zone. Preliminary geophysical work by Mr. Rivet has indicated the presence of magnetic anomalies and VLF conductors, some of which appear to correlate with known showings.
9. Due to the presence of mineralization in this large zone of faulting and quartz veining, it is considered that the property warrants further work. To evaluate the property the following program is suggested.
 - a) Bulk sampling of the exposed mineralization to get representative samples.
 - b) Cut a detailed grid (lines 200 feet apart) over the general area of the mineralized showing and the area to the southeast.
 - c) Detailed geological mapping of this grid.
 - d) Magnetometer and VLF-EM surveys.
 - e) Detailed IP survey of areas of interest based on above work.
 - f) Diamond drilling, if warranted, on targets of interest shown by the above work.

C. PREVIOUS WORK

During the uranium rush of the 1950's much of Porter Township was staked for uranium but by the early 1960's most of these claims had lapsed. In 1961 William Turpeinen of Worthington, Ontario staked 15 claims in Porter and Vernon Townships to cover the mineralized quartz vein presently being assessed. Following some trenching and sampling, Ferco Mines Limited of Toronto optioned the property and drilled 10 short diamond drill holes during 1963 and 1964.

In 1961 two trenches were chip sampled and returned values of:

1. 6.9 oz/T of Ag over 32 ft.,
2. 8.5 oz/T of Ag, 4.9% Pb and 0.38% Cu over 25 ft.

A bulk sample taken from the vein reported lower values.

Following diamond drilling, the results were reported on by Dr. A. T. Griffis in a report to Ferco Mines Limited dated April 1, 1963. The drill results did not substantiate the values obtained in the chip sampling.

Dr. Griffis suggests in his report that there was some problem relative to the silver content of the drill core. He states: "All the core was carefully examined for mineral content. During this examination native silver was found in the fines of the sample portion of the core. No native silver was observed in the core and the silver is definitely considered to be erratic or 'secondary' and not representative of the cored material". As a result, Dr. Griffis instructed the assay office to screen and wash all material and only the + 1/4" material was used for assay purposes. Dr. Griffis then comments further: "This treatment of the samples undoubtedly means some loss of values in the fines, but it does prevent misleading high assays in silver from being reported. The assays in the report for S2 and 3 (drill holes) are for the washed, screened + 1/4" material".

Information from the Ontario Ministry of Natural Resources indicates 10 diamond drill holes were drilled but logs for only holes 1 to 6 are reported. There is no information on the other 4 holes.

The drilling indicated a mineralized quartz vein over 300 feet long and about 20 feet wide. Initially chip sampling of the trenches indicated silver values generally from 5 to 10 oz/T of Ag. The drill core, after being treated as indicated by Dr. Griffis, gave values between 1 and 4 oz/T of Ag. At this point it is difficult to determine which values are representative of the mineralized zone.

D. GEOLOGY

1. General

The area covered by the claim group lies within the Southern Province of the Canadian Shield and here Huronian sediments of Archean age lie unconformably on Archean granites and gneisses. The Huronian formations of the Hough Lake and Quirke Lake Groups are folded into a north-south trending syncline - The Shiner syncline. A sill of diabase has intruded the rocks in the syncline and numerous northwest trending diabase dikes are also present. All rock types are cut by two sets of faults that generally trend northwest-southeast and northeast-southwest. An extensive zone of quartz veining trends northwestward across the claim group generally associated with the northwest trending faulting.

2. Geology of the Showing

The group of 76 claims straddles the sediment-basement unconformity along the east side of the Shiner syncline. In this area the sediments are quartzo-feldspathic sandstones and argillitic to graywacke beds of the Mississauga Formation of the Hough Lake Group. The sediments dip at moderate to steep angles to the west. Overlying the sediments to the west is a sill of diabase.

The mineralized zone is a quartz vein about 20 feet wide and exposed over a strike length of 45 feet. (Figure 1) The vein occurs in a shear zone trending S55°E and dipping steeply north (70 - 85°). The wall rock is a silicified chlorite schist which appears to be an altered argillite or graywacke. Over a 2 foot width adjacent to the main vein, the shear zone contains many thin quartz stringers.

Pyrrhotite associated with chlorite is the main sulphide mineral and there are scattered patches of galena with minor chalcopyrite and sphalerite. The mineralization is erratically distributed in the white quartz vein and varies from almost massive to widely disseminated.

Preliminary geophysical work by Mr. Rivet indicates both magnetic anomalies and VLF conductors in the area of the showing.

E. SAMPLING

Two of the three trenches in the mineralized quartz vein were chip sampled across the exposed width of the vein. The results are presented in Figure 1 and Table 1.

TABLE 1

RESULTS OF TRENCH SAMPLING

<u>TRENCH</u>	<u>WIDTH</u> <u>ft.</u>	<u>Ag</u> <u>oz/T</u>	<u>Au</u> <u>oz/T</u>	<u>Pb</u> <u>%</u>	<u>Cu</u> <u>%</u>
1	20	0.50	.0015	0.22	0.05
2	16	0.56	.001	0.42	0.04

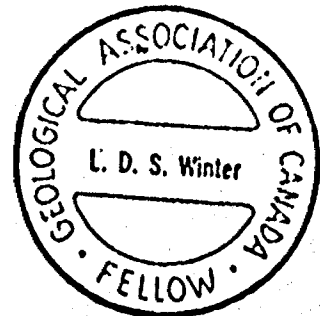
Respectfully Submitted

L. D. S. Winter

L. D. S. Winter
B.A.Sc., M.Sc., F.G.A.C.

May 23, 1980

LDSW:det



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MUCK

Samples 1 to 8 are continuous
chip samples.

Sample	Width	Ag ³ /ton	Cu ppm	Pb %	Au ppb.
1	3 ft.	1.10	175	0.86	20
2	2.5	0.07	170	0.014	15
3	3.0	1.05	395	0.40	30
4	2.5	0.57	725	0.29	30
5	3.0	0.63	3560	0.38	40
6	1.0	0.35	915	0.131	10
7	4.0	0.93	1090	0.35	720
8	2.0	0.15	335	0.089	40
9	mainly gosh of best looking material	3.17	1700	1.26	35

- ⑧
- ⑦
- ⑥
- ⑤
- ④
- ③
- ②
- ①

high grade sample ← ④

Average = $\frac{0.64}{24}$ ft. Au
oz/ton

SCALE 1" = 5 ft.

Porter Township

Freeman - at your 2nd showing we stopped at ch. took 2 samples:

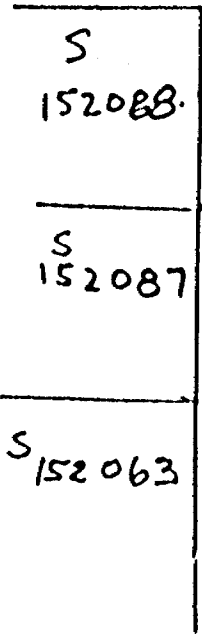
Sample	Width	Ag ³	Cu ppm	Pb %	Au ppb
10	6 ft.	.02	300	.007	210
11	3 ft.	.02	370	.006	1100 (0.032 g/ton)

GROUP SKETCH OF CLAIMS LISTED ON PAGE 1

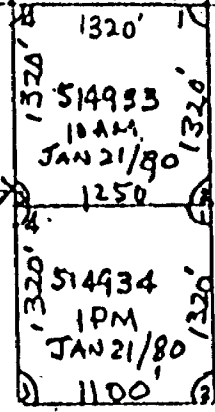
SCALE: 1 inch = 1320 feet
(20 chains)

VERNON TWP

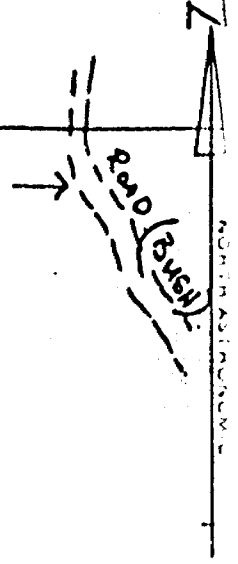
PORTER TWP



← 1/2 MILE →



← 1/2 MILE →





41105NW0009 002381 PORTER

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MEMORANDUM OF AGREEMENT

TO: Taisto Tamminen "Vendor"

FROM: Floron Mining Enterprises Limited

Floron Mining Enterprises Limited understands that the "Vendor" holds 2 claims 514933, 514934 in Porter Township as shown on the attached plan.

This letter indicates Floron Mining Enterprises Limited will receive 50% interest in the claims under the following terms and conditions.

WORK CONDITION

- (1) To stake a minimum of 4 extra claims attached to the property.
- (2) To sufficiently trench at least 2 areas designated by the "Vendor" for an appraisal of the mineralized zones.
- (3) To carry out detailed magnetometer surveys in the area of the showings. Sample the showings and prepare a report.

- (4) To carry out the above work within a period of one year.

OPTION PERIOD

Floron mining Enterprises Limited committment to earn a 50% interest is for no longer than one year. It will be their decision to continue any further work. However Floron Mining Enterprises must keep the claims in good standing or forfeit their interest. If they intend to forfeit their interest in the claims they will advise the "Vendor" at least 6 months before the next assessment work is due.

OTHER CONDITIONS

- (a) If Floron Mining Enterprises Limited forfeits their interest, they must upon request give records of Maps and Reports pertaining to the assessment work performed on the "Vendors" claims.
- (b) If Floron Mining Enterprises Limited places the property into production preproduction, and operating costs may be deducted before distribution of profits.
- (c) If Floron Mining Enterprises Limited attempts to option the property to a third party the transactions must be fully consulted and in agreement with the "Vendor".
- (d) A formal agreement will exercised if (b) or (c) are carried out by Floron Mining Enterprises Limited and the "Vendor".

DATED THIS 1st day of February 1980

Witnessed *J. W. Campbell*

Signed *Laurel L. ...*

Witnessed *J. W. Campbell*

Signed *Glenn S. ...*