



41105NW0011 0019C1 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

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MINING LANDS SECTION

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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 5514933.

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 Aphebian 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. 0.5 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 Aphebian 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 555°E and dipping steeply north ($70 - 85^{\circ}$). 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

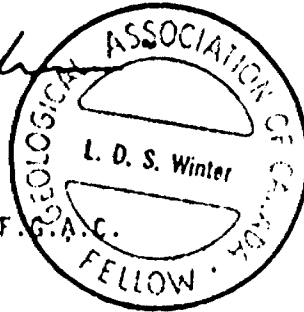
Respectfully Submitted

L. D. S. Winter

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

May 23, 1980

LDSW:det



CERTIFICATE

I, L. D. S. Winter, hereby certify:

1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario.
2. that I am a Fellow of the Geological Association of Canada.
3. that I graduated from the University of Toronto in 1957 with a Bachelor of Applied Science and from McGill University, Montreal, in 1961 with a Master of Science (Applied) in Geology.
4. that I have continuously practised geology for 23 years.
5. that the foregoing report is based upon general knowledge of mineral deposits in the area, a study of information available from the Ontario Ministry of Natural Resources, Geological Branch and on assay results and field work from the property.
6. that I have no personal interest, nor do I expect to receive any interest either directly or indirectly in the property.

L. D. S. Winter

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B.A.Sc., M.Sc., F.G.A.C.

May 23, 1980

LDSW:det



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 49276

Date: May 20 1980

Received May 13 1980 9 Samples of Ore

Submitted by Mr. L. D. S. Winter, Sudbury, Ontario

SAMPLE NO.	GOLD Oz./ton	SILVER Oz./ton	COPPER %	LEAD %
B-0902	N11	0.19	0.02	0.16
B-0903	0.002	0.25	0.04	0.16
B-0904	0.002	0.99	0.08	0.46
B-0905	N11	0.39	0.04	0.16
B-0906	0.002	0.39	0.03	0.08
B-0907	0.002	0.66	0.02	0.50
B-0908	N11	0.33	0.07	0.41
B-0909	0.002	0.29	0.02	0.36
B-0910	N11	0.94	0.06	0.39

Per G. Lebel
G. Lebel - Manager

VERNON TOWNSHIP

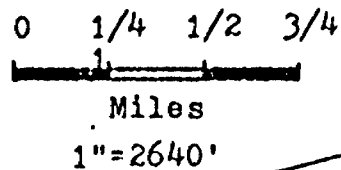
PORTER TOWNSHIP

DUNLOP TWP.

Approximate location
of the mineralized
quartz vein

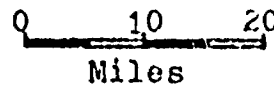
SS/4933

SS/4934



To Timmins
Highway #144

Cartier



Vernon Twp.

Claims
Shown above

Porter Twp.

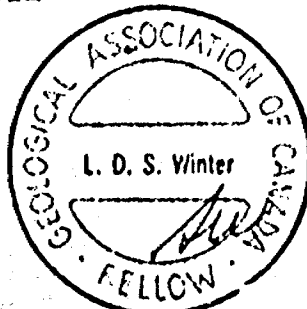
SUDBURY

#17 Highway
To North
Bay

#17 Highway
To Saulte
Ste. Marie

Espanola

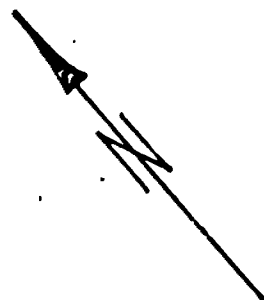
#69 Highway
To Toronto



TAMMINEN CLAIMS	
LOCATION MAP TO ACCOMPANY REPORT ON RIVET CLAIM GROUP	
Nov. 21/81	<i>SW</i>

ASSAY RESULTS

Width ft.	Ag oz/T	Au oz/T	Pb %	Cu %
5	0.50	.002	0.45	0.08



LEGEND

- geologic contact
- trench
- shearing

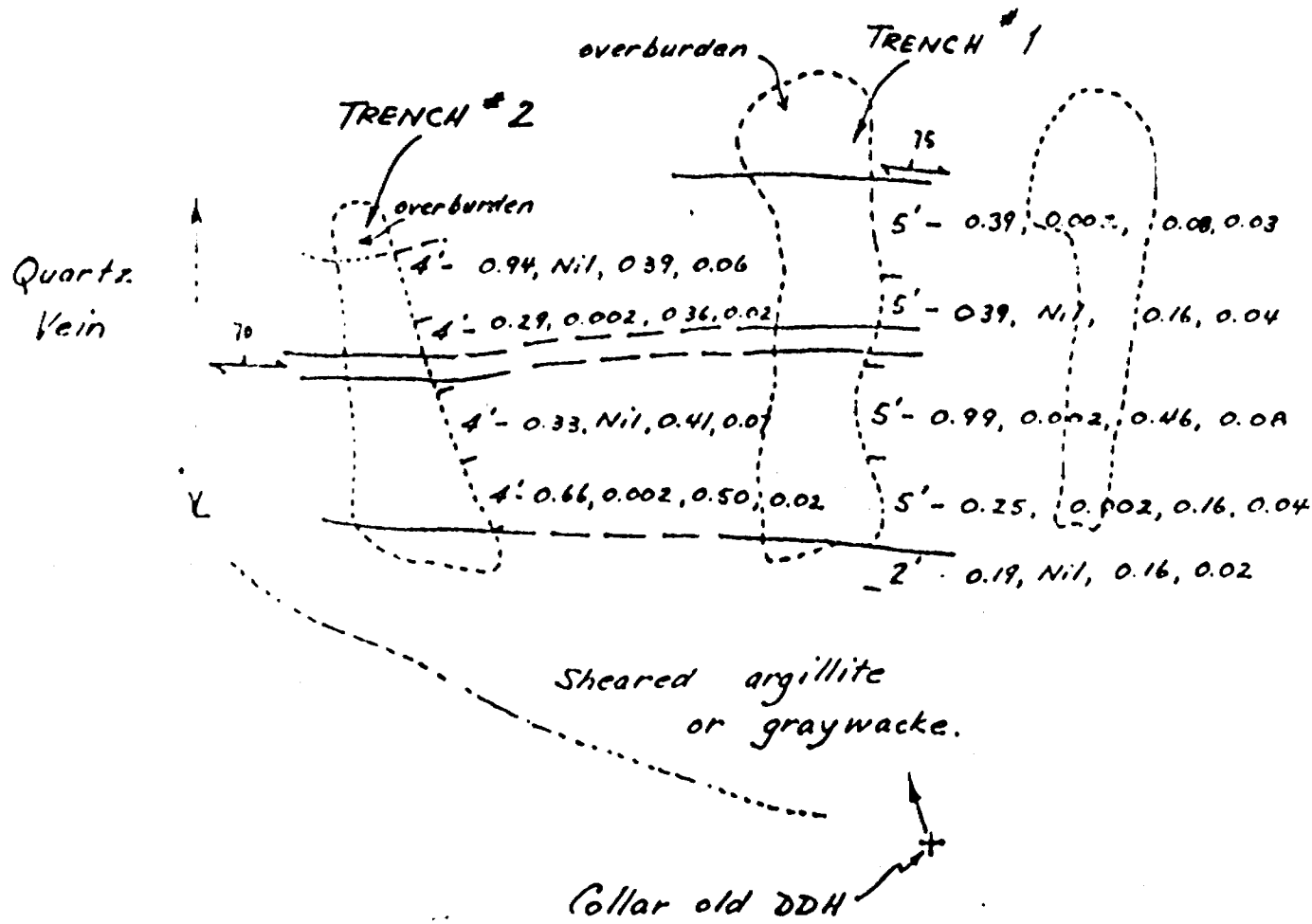


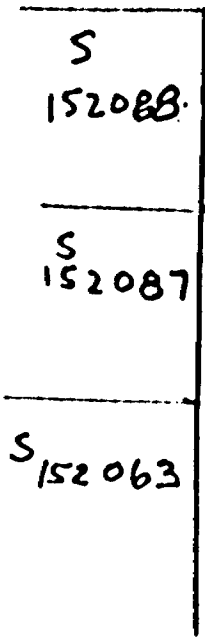
FIGURE 1

RIVET CLAIMS
 PORTER AND VERNON TOWNSHIPS
 SUDBURY, DISTRICT
 SAMPLING RESULTS

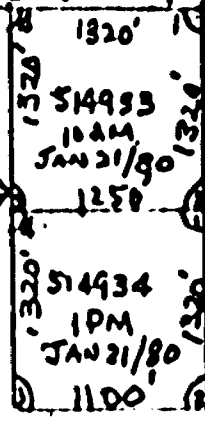
GROUP SKETCH OF CLAIMS LISTED ON PAGE 1

SCALE: 1 inch = 1200 feet
(30 chains)

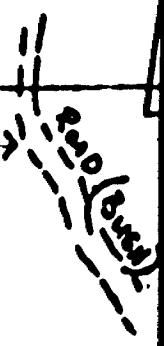
PORTER TWP VERNON TWP



1/2 MILE



2 MILE



2

MUCK

Samples 1 to 8 are continuous chip samples

Sample	Width	Ag %/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	minim grab 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 per ton



Scale 1" = 5 ft.
Porter Township

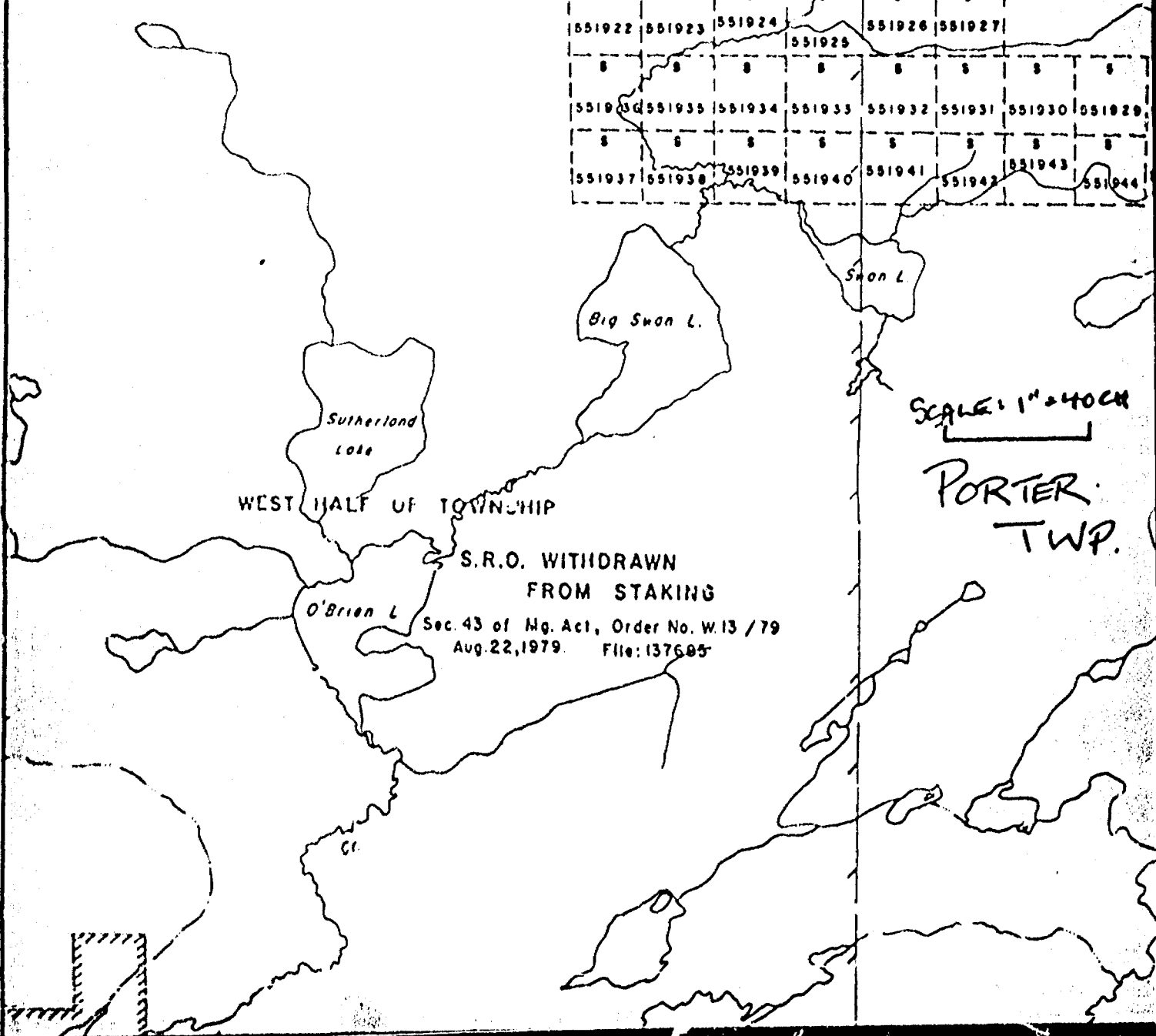
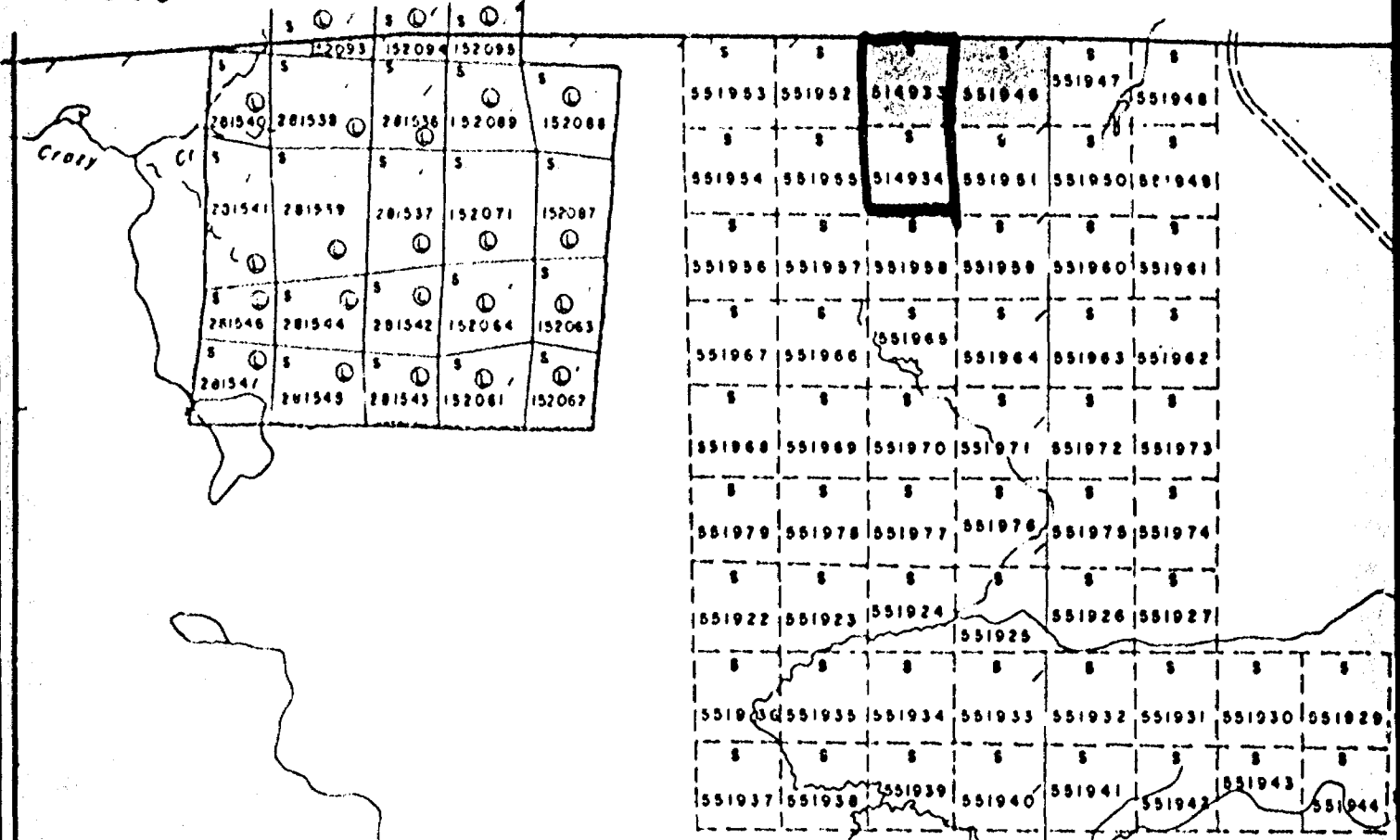
Free on at your 2nd showing we shipped out a total 2 samples:

Sample	Width	Ag %	Cu ppm	Pb %	Au ppb
10	6 ft.	.02	300	.007	210
11	3 ft.	.02	370	.006	1100 (0.32 g/ton)

Porter T.P.

Tennessee T.
Oct 27/91: *issuance*

VERNON TR. M.1171



SCALE: 1" = 40CH

PORTER TWP.