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*Rec. Jan. 24th*  

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*in O.M.E.P.*

REPORT ON THE  
SIM'S NARROWS CLAIM GROUP  
FOR  
BRESEA RESOURCES LTD.

REPORT ON THE  
SIM'S NARROWS CLAIM GROUP  
SQUAW LAKE CLAIM MAP  
PATRICIA MINING DIVISION  
STURGEON LAKE, ONTARIO  
FOR  
BRESEA RESOURCES LTD.

August 12, 1983  
Vancouver, B.C.

M.C. Hansen, Geologist  
W.G. Timmins Exploration  
& Development Ltd.



SUMMARY

This report describes work undertaken on a group of 15 contiguous mining claims owned by Bresea Resources Ltd., on Sturgeon Lake, Ontario. The work involved a VLF survey, geological mapping and rock sampling for geochemical analysis.

The aims of the first phase of exploration have been satisfactorily met. Two targets warranting further exploration have been delineated. A budget for a Phase II programme is included.

August 12, 1983

## INTRODUCTION

This report describes work undertaken on a group of 15 contiguous mining claims owned by Bresea Resources Ltd. on Sturgeon Lake, Ontario (Fig. 1). The work involved a VLF-EM survey, geological mapping and rock sampling for geochemical analysis. The mapping and VLF profiles have been compiled at a scale of 1:2,500, in addition an interpretive geological map has been prepared at a scale of 1:5,000. These plans are included in the back-pocket of this report.

Reference is made throughout this report to various publications, particularly those of Trowell (1983 a,b). Reference is also made to work undertaken by Selco Exploration Co. Ltd., in a search for base metals over an area enclosing the present claim group, during 1970 and 1971. This assessment work, as filed in Ontario under The Mining Act Report of Work, includes ground horizontal-loop electromagnetic and magnetic surveys, and diamond drilling of conductive zones so identified.

### AIMS

This programme of exploration was designed primarily as

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an evaluation of the property in terms of its potential to host gold mineralization. In this respect an understanding of stratigraphy and structures which might control emplacement of mineralization was considered essential. Thus the emphasis was on geological mapping. Trenching, geochemical and geophysical surveys would be undertaken in phase II, if desired, subject to the location of any geologically defined targets. This programme has successfully satisfied these aims.

#### PROPERTY

The claim group consists of 15 unpatented mining claims, located to the east of Sim's Narrows on the peninsula dividing North Arm from Northeast Arm, refer Fig. 2. The claims are shown on The Ontario Ministry of Natural Resources Claim Map for the Squaw Lake Area, plan number M. 1904, Patricia Mining Division. The claim numbers are: Pa440031-35, 676777-82, 676784-87.

#### LOCATION, ACCESS & PHYSIOGRAPHY

The property is located to the east of Sim's Narrows, as mentioned above. The property is reached via Ignace, 250 km west northwest along Highway 17 from Thunder Bay. The

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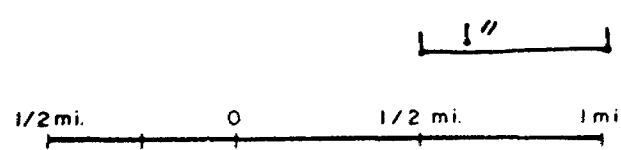
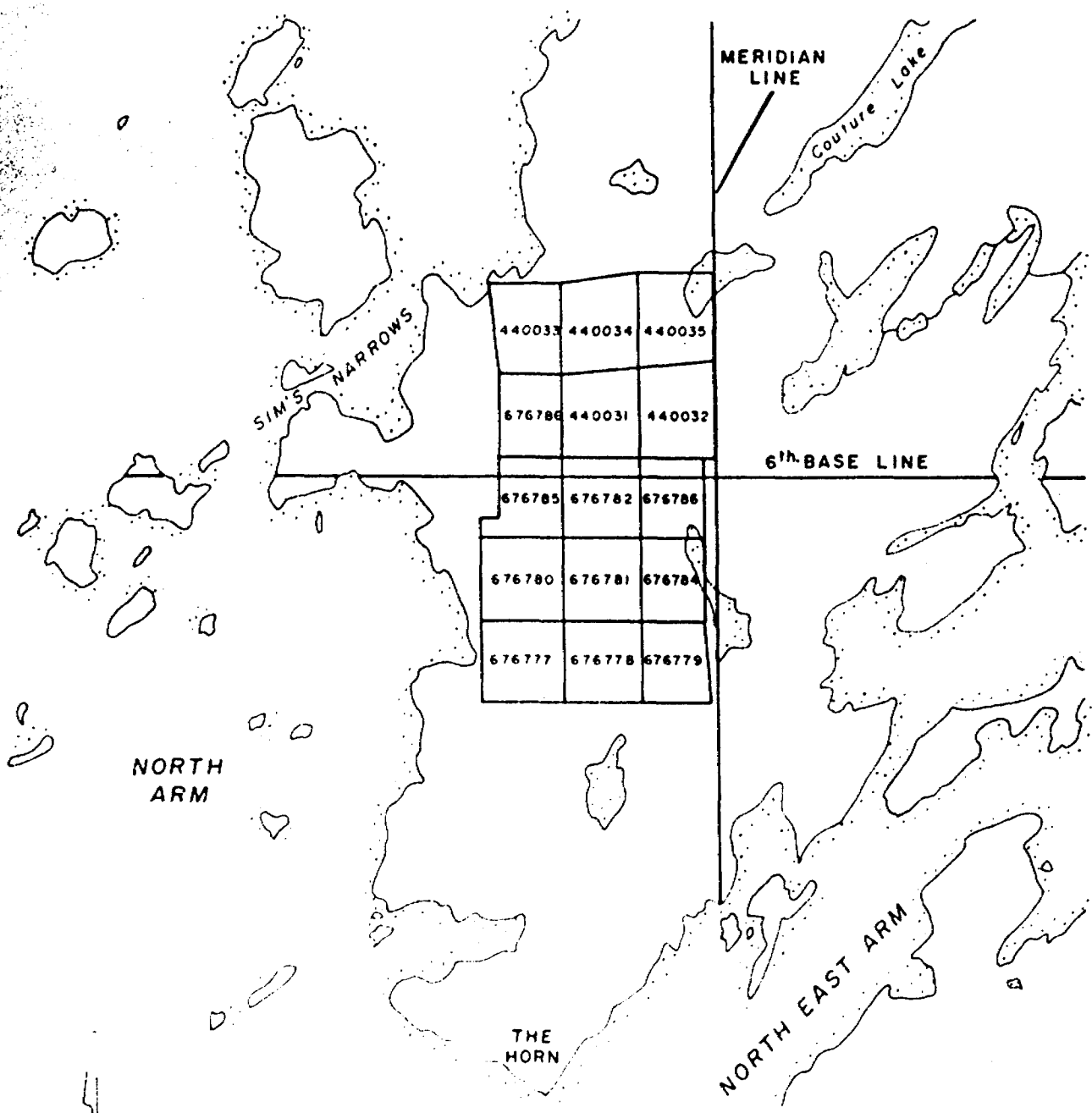


Horizontal Bay road is approximately 80 km north of Ignace along Highway 599. From the landing at the end of Horizontal Bay road it is about 9 km by water to the property. There is a float plane service and landing strip at the village of Savant Lake, which is 100 km north of Ignace on Highway 599.

The property can only be reached by boat or float plane in summer; this is not a problem as there are numerous fishing camps which will hire boats. It must be noted, however, that when the tourist season is in full swing it may be difficult to hire anything and accommodation may be difficult to obtain. Heavy equipment would have to be barged in, in summer, but may be taken across the ice in winter.

Sturgeon Lake lies 409 metres above mean sea level, the highest point on the property is 460 m. There are numerous small cliffs around 5-10 m in height, with many areas of swamp. The northwestern part of the property, in particular, is largely covered in windfall, making traverses tedious to say the least. The area is well treed, however, undergrowth is not particularly thick, except in areas of swamp or windfall.





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**SIM'S NARROWS CLAIM GRP.**  
 STURGEON LK., ONTARIO  
 PATRICIA MINING DIVISION  
**CLAIM LOCATION MAP**

1:31,680	Aug. 83.	FIG. 2	B.D.S.
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There is no electric power in the near vicinity, but there is adequate potable water available. Basic supplies are available from Savant Lake, Ignace, or Sioux Lookout, the latter town being the location of the Mining Recorder's Office and the Resident Geologist for the Ontario Geological Survey. Thunder Bay is the closest city.

#### HISTORY OF THE PROPERTY

Published literature does not mention the area of the claim group. However, two mining claims are shown on the map accompanying a report for the Ontario Bureau of Mines by Moore (1911). These claims correspond to a quartz vein on the claim group (see 1296N/425E, Fig. 4) which has been trenched at some considerable time in the past.

The peninsula on which the claim group is located hosts numerous gold showings. For this reason, along with apparently favourable structure, the property must be considered prospective in terms of gold mineralization.

Some of these gold showings will be mentioned here, more data on some may be found elsewhere in this report. The only (past) producing gold mine in the Sturgeon Lake area, St. Anthony, lies 4.4 km to the north-northeast. Moore

(1911) describes a showing 1 km north of the property known as the Coveney Prospects. These have been trenched and shafts sunk, one assay reported by Moore shows 0.2 oz. Au/ton and 22.72 oz. Ag/ton. This showing is near the contact between granodiorite (trondhjemite) and the greenstone. A showing on the coast 0.5 km to the south of the property is also on the contact between granodiorite and greenstone. This has been trenched at some time in the past. On The Horn, 1.7 km south of the property, a quartz vein on the contact between intermediate to felsic and mafic metavolcanics is presently owned, and intermittently worked by Rickabee Mines Ltd.

During 1970 and 1971 Selco Exploration Company Ltd. conducted a programme of exploration for base metals over a large area of the peninsula, including this property. A northwest oriented grid was laid out on cut lines, horizontal-loop electromagnetic and magnetic ground surveys were completed. Follow-up drilling located several zones of pyrite-pyrrhotite enrichment, one of these holes was sited on the property (see Fig. 4). The conductive horizons on which the holes were sited appear to be largely non-outcropping felsic metavolcanics (tuffs, volcanoclastics) and metasediments. Although gold and silver would presumably have been assayed for, no values are shown in the assessment files.

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REGIONAL GEOLOGY

The Precambrian rocks of the Sturgeon Lake area are part of the Wabigoon Subprovince of the Superior Province. The stratigraphic assemblage, the Sturgeon Lake Metavolcanic-Metasedimentary Belt, has been subdivided by Trowell (1983 b) into four assemblages on the basis of lithology and geographic distribution. Subvolcanic intrusions are extensive, batholithic granitic complexes form southern, eastern and northwestern boundaries to the greenstone belt. Plutons of varied composition (granodiorite, syenite, etc.) and varied age were emplaced within and marginal to the greenstone belt. Ages of these stocks and plutons varies from syn- to post-tectonic. Most of the rocks of the area have been subjected to greenschist to lower almandine-amphibolite facies metamorphism.

According to Trowell (1983 b) the central and northern parts of the property consist of metavolcanics and metasediments of the North Arm cycle; the southeastern part consists of greenstone of the Northeast Arm cycle. Both cycles belong to the Northeast Arm Assemblage, one of the four assemblages mentioned above. The North Arm cycle consists of an upper formation of massive to porphyritic flows and pillowed flows, underlain by a

formation consisting of mafic to intermediate fragmental rocks. The upper formation of the Northeast Arm cycle consists of massive, pillowed and amygdaloidal flows, with associated minor autoclastic and hyaloclastic breccias. This stratigraphic sequence, although no doubt accurate on a regional scale, does not entirely correspond with observations made during mapping on the property.

The Western Granitic Complex, composed largely of granodiorite (trondhjemite), forms the eastern boundary to the peninsula. It outcrops in the northwestern and central western areas of the property. Gabbroic dykes intrude the above mentioned sequence in the northwest corner.

#### ECONOMIC GEOLOGY

Gold, silver, copper, lead, zinc, molybdenum, iron, fluorite and uranium mineralization all occur in the Sturgeon Lake area.

The St. Anthony mine, 4.4 km north-northeast of the property, produced 63,310 oz. Au at 0.19 oz. Au/ton and 16,341 oz. Ag at 0.05 oz. Ag/ton during the period 1905 to 1941. This past-producer has seen several owners since

that time, however, none has been able to return it to production. It is presently held by Aubet Resources Ltd., who completed a drill programme in June, apparently to block out potential reserves. Four major basemetal massive sulphide deposits; 'F' zone, Mattabi, Lyon Lake and NBU orebodies are, or have been, producers. These orebodies all occur at the south end of the lake.

In 1982 Steep Rock Resources (then Steep Rock Iron Mines Ltd.) discovered significant gold mineralization on the north shore of King Bay, 7.5 km southwest of the property. This discovery precipitated a staking rush during the latter part of 1982 and early 1983. An announcement in The Northern Miner of January 13, 1983 gave uncut values in 3 holes of "... 0.23 oz. gold per ton over a core length of 10.9 ft., 1.36 oz. over 29.7 ft., and 1.80 oz. over 6.9 ft." The latest announcement in The Northern Miner of June 30, 1983 was pessimistic, perhaps unduly so.

There are numerous small gold showings in the North Arm, Northeast Arm and King Bay areas, several of which bracket the property, as previously mentioned. To date none has been profitably exploited. Two men are presently working gold-bearing veins on Rainbow Island, 2.8 km south-southwest of the property. It would appear that they have yet to

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realise a return on investment. Three samples collected from the ore dump on the island were submitted for assay, returning values of 0.978 oz. Au/ton, 3.924 oz. Au/ton, 5.302 oz. Au/ton.

#### PROPERTY GEOLOGY AND MINERALIZATION

This section is basically a summary of work completed on the property. The methods used are mentioned first, followed by a discussion of results. Finally geology and mineralization are discussed. Much of the data in this section is taken from the geological fact (Fig. 4, backpocket) and interpretive (Fig. 5) maps, and the VLF profiles (Fig. 3). Typical chemical compositions of the various rock types encountered on the property are presented in Appendix I. Assays and geochemical analyses of samples collected during this programme are presented in Appendix II. Photographs of typical exposures, sample localities etc. are presented in an accompanying album.

#### A. METHODS

The constraints of time, and the budget allocated to the programme necessitated the establishment of a grid as quickly as possible. For this reason the claim lines were

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run by compass and hip chain, stations being marked with flagging. This had the added advantage of rapidly establishing the property boundaries. Additional lines were run through the centre of each claim, giving an approximate spacing of 200 m for the east-west oriented grid lines, with stations at 25 m intervals. The lines were run north-south at selected intervals as a check on accuracy. The western boundary of the claim group was used as the base line, for a total length of 2.225 km.

The VLF-EM was run concurrently with the establishment of the grid. The average spacing of 200 m is considered too wide for contouring, consequently the VLF data is presented as profiles. The instrument used was a Sabre, Model 27. The station used was Cutler, Maine, transmitting at a frequency of 17.8 kHz.

The property was mapped at a scale of 1:2,500. The wide spacing of the grid lines left strips of varying width (0-150m) unmapped between lines. The shoreline adjacent to the property was mapped to show the relationship between the greenstone belt and the intrusive Western Granitic Complex. Construction of the interpretive map at a scale of 1:5,000 incorporated data from; mapping, VLF, electromagnetic, magnetic and drillhole data from the assessment



files.

The last stage of the programme involved sampling for geochemical analysis. Rock samples were collected for analysis, which was done by Loring Laboratories Ltd., of Calgary. Samples were analysed for Cu, Pb, Zn and Ag in addition to Au in an attempt to establish potential qualitative relationships between the metals.

#### B. DISCUSSION OF RESULTS

It is considered that the grid is of sufficient accuracy to be used for future work. There are three drawbacks to such a grid however; the lines are too widely and too randomly spaced, the flagging and writing thereon has a rather limited life, the generally heavy growth makes the lines difficult to see as they are only represented by flagging. Depending on the nature of any future work these factors may or may not be a problem.

The VLF survey was of considerable use in compiling an interpretive geological map. Successful use of VLF requires that the strike of the conductor be in the direction of the VLF station so that the lines of magnetic field from the VLF transmitter cut the conductor. The strike of rocks

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on the property is  $025^{\circ}$  -  $030^{\circ}$ , the direction of Cutler, Maine is  $110^{\circ}$ . Consequently the lines of magnetic field run subparallel to the strike of the rocks. A similar problem would have occurred with the other stations available on the instrument; Annapolis, Maryland and Seattle, Washington. The result is that some conductors may not be distinguished, and those that are may give a broad crossover that is difficult to interpret. Thus while major lithologic units and/or structures may be able to be determined, structures of lesser dimensions may not be picked up.

The mapping was successful, considering the constraints. It is unlikely that any outcropping indication of mineralization has not been observed. The interpretive map presented here is considered to be substantially correct, however, it must be noted that additional data or a different viewpoint would result in modification to a greater or lesser extent.

Rock samples for geochemical analysis were collected from those areas with indications of mineralization, eg. quartz or carbonate veining. The area has been glaciated and until recently lay beneath glacial Lake Agassiz. As a result there is little soil that can be confidently known

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to be in place. A soil geochemistry programme, in the absence of adequate geological knowledge, could be both misleading and unproductive. Humus geochemistry is still in an experimental stage in the area, however, it appears to have considerable potential. In summary it is considered that rock geochemistry has provided the maximum information for the expenditure.

### C. GEOLOGY

It was mentioned in a previous section that the stratigraphic sequence for the area as published by Trowell (1983 b) does not entirely correspond with observations made during the mapping programme. However, the differences are not extreme and are to be expected considering the different scales of the mapping involved.

In general the surface of the property is either outcrop, swamp or moss. There is very little soil and what there is would almost certainly be of glacial origin, i.e. till or drift. Glacial striae may be readily observed, particularly on aerial photographs. They strike about  $225^{\circ}$  with the direction of movement being from the northeast.

The stratigraphic sequence strikes  $025^{\circ} - 030^{\circ}$ , with dip

being vertical to sub-vertical. The facing direction observed on pillows is southeast. The stratigraphy is tabulated below in Table I, thicknesses shown may be inaccurate insofar as structural thickening almost certainly occurs but could not be observed. The correlation with Trowell's stratigraphic sequence can only be approximate. The base of the sequence is in the northwest corner of the property, the top to the southeast.

The Western Granitic Complex forms the western margin to the property, being generally paralleled by the shoreline. It is granodioritic in composition and may be xenolithic. Gabbro dykes are observed on the property. Felsic dykes, granodiorite, pegmatite etc., are frequently observed along the shoreline but not inland. These dykes are presumably preferentially weathered, however, they are also spatially related to the intrusion.

The sequence appears monoclinial, however, metamorphism and the rather featureless nature of flows could well preclude observation of fold structures. Most information is gained from the pillowed flows, specifically facing direction and extent of deformation. The latter may be seen through the length-width ratio of the pillows. This ratio is generally around 1:1 to 1:5, indicating only moderate

TABLE I

STRATIGRAPHIC SEQUENCE ON THE PROPERTY

Description	Thickness (Metres)	Typical <sup>a</sup> Composition	Approx. Class. <sup>b</sup> According to Trowell (1983b)
Pillowed flows, may contain sub- aerial flows and/ or subvolcanic intrusions	>1,000	3	C2
Massive to porphyritic med-to coarse grained basic flows	50	1,2	C2
Pillowed flows, amygdaloidal towards base, variable thickness, may contain sub- aerial flows &/or sub-vlcanic intrusions	150-300	3	C2
Massive to porphyritic med-to coarse grained flows	50	1	C2
Felsic to inter- mediate tuff, volcaniclastic, volcanic sediments wacke, arkose	120	4,5	C2
Massive to porphyritic med-to coarse grained flows	50	1,2	C2

NORTHEAST ARM CYCLE

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TABLE I - continued

<u>Description</u>	<u>Thickness (Metres)</u>	<u>Typical<sup>a</sup> Composition</u>	<u>Approx. Class.<sup>b</sup> According to Trowell (1983b)</u>
Pillowed flow/s	20	3	B2
Massive med- grained flows	125	1,2	A2
Felsic to intermediate tuff, volcaniclastic, volcanic sediments	25	4,5	A2
Massive to porphyritic med- to coarse grained flows	>500	1,2	A2

NORTH ARM CYCLE  
↑  
↓

BASE OF SEQUENCE

- a - Compositions shown in Appendix 1, data from Trowell (1983b).
- b - Formations A2, B2, C2 belong to the cycles as shown, both cycles are part of the Northeast Arm Assemblage.

deformation. It should be noted that this ratio cannot be determined in many instances.

Fracturing is extensive with three common sets at;  $020^{\circ}$  -  $040^{\circ}$ ,  $080^{\circ}$  -  $100^{\circ}$ ,  $140^{\circ}$  -  $170^{\circ}$ , all being vertical to sub-vertical. A horizontal fracture set is often observed along the shoreline but is not so obvious inland. Several shear zones up to 100 m wide were observed, movement could not be determined. The shears are generally parallel or sub-parallel to one of the fracture sets.

Faults are rarely observed, however, on reconstruction of the geology it would appear that the area has been subjected to north-south compression. Movement of the resulting faults being largely reverse transcurrent as would be expected, there is a subordinate vertical component.

#### D. MINERALIZATION

Gold occurrences in the Sturgeon Lake area are all hosted by quartz veins, or some form of quartz segregation. The veins may be spatially associated with granitic intrusions or occur isolated within the greenstone belt, generally in close association with mafic metavolcanics. The quartz is often blue, associated sulphides are generally pyrite and

chalcopyrite. Carbonate and tourmaline may also be present, sphalerite is rather uncommon and galena is rare. Contacts between different stratigraphic units and sheared or faulted zones are the preferred sites of emplacement of gold-quartz veins.

Upon completion of the mapping 16 areas had been located which appeared to meet one or more of the above parameters. However, only 8 of these areas were considered significant enough to sample at this stage. The results of the sampling are presented in Appendix II, sample and photograph localities are shown on Fig. 4. Only two of these areas are discussed below, being those areas which appear most able to host significant gold mineralization.

Overall the results are pleasing, indicating that gold has been deposited in the area. To determine whether gold occurs in economic concentrations would require further work of course, however, indications at this stage are positive.

OON/775E

This locality is a shear zone, oriented  $020^{\circ}$  and 50 m wide. The shear itself is a parallel-sided depression with no



outcrop. The walls to the shear, from which the samples were taken, are extensively veined in quartz and carbonate. Pyrite and chalcopyrite may be associated with the quartz. Samples 1008 and 1009 contain 70 ppb and 20 ppb Au respectively, with sample 1007 assaying 0.062 oz./ton in gold. The shear itself would definitely appear worth evaluating, probably through geochem, trenching, and detailed mapping in the vicinity.

1296N/425E

This is the location of the major quartz vein on the property, striking 055°/vert, 1.5 m in width. The vein itself has been trenched in the past. It occurs within a major faulted zone striking 055° - 060°, located between 2,000N/1,000E and 1,100N/250E. There is a stratigraphic contact between mafic massive and pillowed flows in the near vicinity. Although the vein itself appears barren of gold at this location, sheared metavolcanics within 10 m of the vein are anomalously high in Au. Samples 1047 and 1048 give 100 ppb and 80 ppb respectively. Several other samples are elevated in Cu, Ag, and/or Zn. The fault zone on which the vein occurs certainly bears further investigation along it's strike length. Again it does not outcrop so geochem, trenching and detailed mapping would be required.

E. SUMMARY

In summary the property warrants further work, specifically geochemistry, some limited mapping, perhaps geophysics, and trenching. The problem with the latter is that areas of interest may be beneath swamp, although there are numerous areas which could be successfully trenched.

It would appear from the geochem results that Pb is of little value as an indicator, Cu and Zn being of more use. Ag should be analysed for as a matter of course, however, it does not seem to show any systematic variation. Other elements which may prove useful as indicators in further litho-geochemical surveys include; As, Sb, Hg, B, Ba.

With regard to pedo-geochemical surveys (soil, till, etc.) Au, Ag, Hg, Sb, As, and Cu are probably of most use as indicators. With regard to a humus geochemical survey the best indicator elements would probably be; Ag, Cu, Zn, Hg, Sb, As. In addition there are various relationships among the major elements which may show specific trends approaching a gold deposit.

There is too little data here to statistically treat the results, however, this will certainly be required should

any major sampling programme be undertaken, probably using a multivariate technique such as factor analysis. This will be required because of the relatively complex data that can be expected. An example; Cu background may be 10 ppm in barren quartz veins, 20 ppm in intermediate to felsic metavolcanics, but up to 150 ppm in mafic metavolcanics. Variations such as this could be expected for other elements. Thus the data could contain several overlapping populations which would obscure the significance of any anomalous values.

#### CONCLUSIONS AND RECOMMENDATIONS

The aims of this first phase of exploration have been satisfactorily met. Two targets warranting further exploration have been delineated.

A Phase II programme has been outlined by T. Gledhill in a report to Bresea Resources Ltd., dated February 14, 1983. This is modified somewhat in the light of present knowledge, however, the general format remains similar. A budget for a Phase II programme is outlined below:

PHASE II

(A) Personnel		
Geologist 1 month @ \$6,000/month	\$	6,000
2 Assistants 1 month @ \$4,000/month		8,000
(B) Sample Costs		
Assays 25 @ \$25		625
Geochemical analysis 500 @ \$10		5,000
(C) Accommodation and Food		
90 days @ \$50/day		4,500
(D) Transport		
Vehicle 1 month		800
Boat 1 month		750
Airfare Calgary return		3,000
(E) Trenching		
Mobilization (incl. barging)		1,000
75 hrs. @ \$50/hr. (e.g. D6 Cat)		3,750
(F) Field Equipment		
Including geophysical		2,500
(G) Engineering, Interpretation, Report		<u>5,000</u>
		40,925
Contingencies @ 15%		<u>6,138</u>
Total	\$	<u><u>47,063</u></u>

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PHASE III

Diamond drilling, probably a minimum of 3,000', but to be determined subsequent to the completion of Phase II. The expenditure for this phase could be expected to be in the order of \$75-100,000.

Respectfully submitted,

Mark C. Hansen, Geologist  
W.G. Timmins Exploration  
& Development Ltd.

August 12, 1983

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CERTIFICATE

I, Mark C. Hansen, of 479 E. 11th Ave., Vancouver, B.C., do hereby certify that:

1. I am a graduate of The University of Auckland, New Zealand, with a B.Sc. (1974) and an M.Sc. (1978) in geology.
2. I have practised within the geological profession since graduation in 1974, having worked in New Zealand, Australia and North America.
3. I am a self-employed geologist, currently working for W.G. Timmins Exploration & Development Ltd.
4. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining.
5. I have no interest, direct or indirect in the property or securities of Bresea Resources Ltd., nor do I expect to receive any such interest.
6. This report is based upon several days field work and a study of relevant literature.

Dated at Vancouver, B.C. this 12th day of August, 1983.

Mark C. Hansen, Geologist  
W.G. Timmins Exploration  
& Development Ltd.

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Trowell, N.F. (1983a) Geology of the Squaw Lake-Sturgeon Lake Area, District of Thunder Bay; Ontario Geological Survey, Report 227, 114p. Accompanied by Map 2420, scale 1:31,680.

(1983b) Geology of the Sturgeon Lake Area, Districts of Thunder Bay and Kenora; Ontario Geological Survey Report 221, 97p. Accompanied by Maps 2456, 2457, 2458, scale 1:50,000, 1 Chart, and 1 sheet of Microfiche.



APPENDIX I

TYPICAL MAJOR ELEMENT ANALYSES

Data from Trowell (1983b)

Element	1	2	3	4	5
SiO <sub>2</sub>	47.10	49.40	53.70	75.50	63.70
Al <sub>2</sub> O <sub>3</sub>	15.10	14.30	16.40	14.50	20.60
Fe <sub>2</sub> O <sub>3</sub>	15.90	1.90	0.93	1.29	4.16
FeO	-	10.20	8.52	-	-
MgO	7.75	8.14	1.65	1.14	2.53
CaO	9.45	11.20	6.79	0.51	1.91
Na <sub>2</sub> O	2.40	1.52	1.56	2.88	1.46
K <sub>2</sub> O	0.48	0.11	0.58	2.12	0.55
TiO <sub>2</sub>	0.83	0.82	1.49	0.20	0.50
P <sub>2</sub> O <sub>5</sub>	-	0.08	0.11	-	-
S	-	0.07	0.80	0.01	0.08
MnO	0.24	0.21	0.22	-	-
CO <sub>2</sub>	-	0.10	4.30	-	-
H <sub>2</sub> O+	-	1.91	4.27	-	-
H <sub>2</sub> O-	-	0.16	0.05	-	-
Total	99.20	100.10	101.40	98.10	95.50

Selected Trace Elements in ppm

Cu	-	20	100	6	20
Pb	-	20	15	10	30
Zn	-	150	110	29	20
Ag	-	40	1	1	50

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TYPICAL MAJOR ELEMENT ANALYSES - continued

DESCRIPTIONS

- 1,2 - Mafic to intermediate massive to porphyritic medium or fine grained flows.
- 3 - Mafic to intermediate massive to amygdaloidal pillowed flows.
- 4,5 - Felsic to intermediate tuff or volcanoclastic. This rock type is easily identified in drill holes but outcrops poorly. In outcrop it may appear as a quartz-feldspar porphyry.

Note: the '\_\_\_' represents not assayed for.

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APPENDIX II

RESULTS OF GEOCHEMICAL ANALYSES AND ASSAYS

ASSAYS

<u>Sample</u>	<u>Au oz./ton</u>
1007	0.062
1058	0.662
1059	0.032

Sample Description

- 1007 - Quartz vein, no obvious sulphides, orientation: 140°/sub-vertical width; 4-5 cm.
- 1058 - Sample from Rickabee Mines, vuggy quartzo-feldspathic material.
- 1059 - Sample from Rickabee Mines, intermediate to felsic metavolcanic, contains quartz stringers, minor py & po. Both these latter samples come from an environment similar to the Sim's Narrows property.

GEOCHEMISTRY RESULTS Note: Cu, Pb, Zn, Ag in ppm, Au in ppb

<u>Sample No.</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>	<u>Au</u>	<u>Location</u>
1007	28	8	34	0.6	+1,000	00N/775E
1008	58	6	26	-	70	00N/775E
1009	90	11	31	-	20	00N/775E
1010	22	6	23	-	-	00N/775E
1011	20	9	30	-	5	00N/775E
1012	122	9	35	-	-	200N/800E
1013	23	9	23	-	-	200N/800E
1014	+1,000	6	32	-	-	441N/450E
1015	240	7	36	5	-	441N/450E
1016	5	4	11	-	-	2,225N/266E
1017	5	5	25	0.1	-	2,225N/266E
1018	3	4	26	0.4	-	2,225N/266E
1019	2	3	20	0.1	-	2,225N/266E
1020	2	4	22	-	-	2,225N/266E
1021	185	3	24	-	-	441N/1011E
1022	480	4	36	0.1	-	441N/1011E
1023	44	8	15	-	-	441N/1011E
1024	23	4	24	-	-	441N/1011E
1025	570	7	54	0.2	15	441N/1011E
1026	69	8	57	-	-	441N/1011E
1027	4	8	10	1.2	-	1,825N/120E
1028	4	4	28	-	-	1,825N/120E

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CONSULTING GEOLOGISTS

GEOCHEMISTRY RESULTS - continued

<u>Sample No.</u>	<u>Cu</u>	<u>Pb</u>	<u>Zn</u>	<u>Ag</u>	<u>Au</u>	<u>Location</u>
1029	2	3	11	-	-	1,825N/120E
1030	69	8	38	0.1	-	1,825N/120E
1031	12	5	21	-	45	1,296N/982E
1032	6	18	9	0.3	-	1,296N/982E
1033	40	8	32	-	-	1,296N/982E
1034	4	9	30	-	-	1,296N/982E
1035	+1,000	10	19	1.2	-	1,296N/425E
1036	54	61	11	0.3	-	1,296N/425E
1037	+1,000	10	26	0.4	-	1,296N/425E
1038	14	3	4	0.1	-	1,296N/425E
1039	26	5	35	-	-	1,296N/425E
1040	70	10	89	-	-	1,296N/425E
1041	151	4	36	-	-	1,296N/425E
1042	80	5	74	-	-	1,296N/425E
1043	6	3	12	-	-	1,296N/425E
1044	120	9	173	-	-	1,296N/425E
1045	+1,000	3	12	0.3	-	1,296N/425E
1046	36	2	6	-	-	1,296N/425E
1047	+1,000	2	330	0.2	100	1,296N/425E
1048	690	8	198	-	80	1,296N/425E

Note: - represents concentration at or below detection  
limit.

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SAMPLE DESCRIPTION

- 1007 - Quartz vein, 140°/sub-vert., 4-5 cm wide.
- 1008 - Quartz vein, 060°/vert., 1-2 cm wide.
- 1009 - Quartz-carbonate stringer.
- 1010 - Quartz-carbonate vein, 040°/vert., 2-3 cm wide.
- 1011 - Quartz pod 30 cm long, containing limonite clots,  
malachite.
- 1012 - Quartz-carbonate vein, minor tremolite, 040°/80°  
N.E.
- 1013 - as above.
- 1014 - Pod of blue quartz, 5 cm across, py, po, cp.
- 1015 - as above.
- 1016 - Quartz-carbonate vein, 345°/vert.. min. thickness  
1 m.
- 1017 - as above, with some included wall rock.
- 1018 - as above, with minor py.
- 1019 - as above.
- 1020 - as above.
- 1021 - Quartz pod, pyritic, white rim, blue core.
- 1022 - Quartz vein, 130°/sub-vert., 1-2 cm wide, minor  
py & cpy.
- 1023 - Quartz pod sl pyritic.
- 1024 - Quartz, white, in dilatant zone.
- 1025 - Rusty weathering, pyritic, sheared, pillows, quartz  
stringers.

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SAMPLE DESCRIPTION - continued

- 1026 - Pillows, quartz-filled vugs, minor py.
- 1027 - Quartz vein, 120°/sub-vert., clean white quartz.
- 1028 - as above, but wallrock to vein and some vuggy carbonate.
- 1029 - Channel sample across above vein.
- 1030 - Medium grained metavolcanic wallrock to above vein.
- 1031 - Vuggy quartz pod within pillows, some limonite.
- 1032 - Carbonate vein, 070°/50N, 6 cm wide.
- 1033 - Vuggy quartz pod, minor carbonate, po, some oxidation.
- 1034 - as above with some included wallrock (pillows).
- 1035 - Channel sample from S.E. side of quartz vein, 1.5 m wide, 060°/vert., py, cp.
- 1036 - Channel sample from centre of vein in same location, barren white quartz.
- 1037 - 10 cm wide oxidized zone on S.E. side of vein, quartz stringers and wallrock.
- 1038 - Channel sample across central 1 m of quartz vein, barren.
- 1039 - Foliated quartzose wallrock on the N.W. side of vein.
- 1040 - Wallrock with quartz stringers, channel across 30 cm, minor py and cpy.
- 1041 - Channel sample across 1 m central section of quartz vein, appears barren.

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CONSULTING GEOLOGISTS

SAMPLE DESCRIPTION - continued

- 1042 - Wallrock with quartz stringers, sample across 20 cm,  
some py.
- 1043 - as for 1041.
- 1044 - Slightly brecciated wallrock on N.W. side of vein.
- 1045 - Rusty quartz grab sample from vein, considerable py,  
po, cpy.
- 1046 - as above.
- 1047 - Grab sample of rusty, vuggy, pyritic metavolcanic  
from shear 10 m from vein.
- 1048 - as above.

W. G. TIMMINS EXPLORATION & DEVELOPMENT LTD.

CONSULTING GEOLOGISTS



52J02SE8678 2.6551 SQUAW LAKE

020

BRESEA RESOURCES LTD.  
PROGRESS REPORT  
KING BAY AREA GOLD PROPERTY  
"SIM'S NARROWS CLAIM GROUP"  
STURGEON LAKE, ONTARIO

September 15, 1983

Tom Gledhill, B.A., P.Eng.



52J02SE8678 2.6551 SQUAW LAKE

020C

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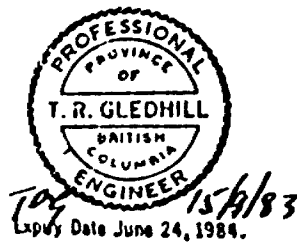
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Bresea Resources Ltd.  
 Progress Report  
 King Bay Area Gold Property  
 "Sim's Narrows Claim Group"  
 Sturgeon Lake, Ontario

SUMMARY

Phase I and portions of Phase II have been completed on the 15 claim group named "Sim's Narrows Claim Group. Reconnaissance geologic, geochemistry and geophysics have located 16 areas that meet the parameters for gold exploration. A shear zone and a major quartz vein have been singled out for further work. Phase II should look at all 16 areas.

A modified budget of \$47,000 should be provided to cover the Phase II program. At the present time the Projected Phase III budget remains at \$75,000.



*Tom Gledhill*

Bresea Resources Ltd.  
 Progress Report  
 King Bay Area Gold Property  
 "Sim's Narrows Claim Group"  
 Sturgeon Lake, Ontario

I. INTRODUCTION

W.G. Timmins Exploration Development Ltd. carried out Phase I and part of Phase II of the exploration program outline in Tom Gledhill's report of February 14th, 1983. This work was carried out between June and August 1983. I have reviewed this work reported by M.C. Hansen dated August 12, 1983 and report my comments here.

II. Summer 1983 Program (Phase I and parts of Phase II)

M.C. Hansen carried out mapping on the claim group, along with several V.L.F. traverses (radio frequency EM). Rocks were assayed and geo-chemically analysed.

III. DISCUSSION OF RESULTS

More detailed work may be required for geology in future work. VLF traverses do not have

the coverage that may be ultimately required for the property. There was a good proportion of outcrop which made the mapping helpful.

#### Geology

The mapping disclosed that the majority of the rocks on the property are volcanics with tops facing the southeast and striking N25°E and near vertical dip. These volcanics form a monocline. The granitic complex forms the western margin of the property.

#### Mineralization

Gold in this area occurs in quartz veins or some form of quartz segregation. There is often sulphides, generally pyrite and chalcopyrite. Carbonate and tourmaline may also be present.

#### Targets for Further Exploration

The work located 16 areas that met the parameters for gold exploration, two were singled out for further work.

##### (a) 00N/775E

A shear zone with quartz and carbonate with minor sulphides. Three samples gave minor gold values.

(b) 1296N/425E

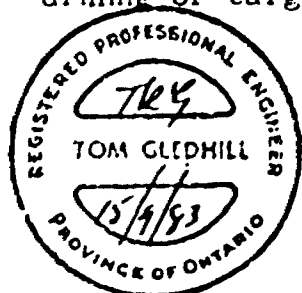
A major quartz vein strikes N55°E and is vertical. The width is 1.5 meters. Surrounding volcanics contain anomalously high gold values.

#### IV. CONCLUSIONS AND RECOMMENDATIONS

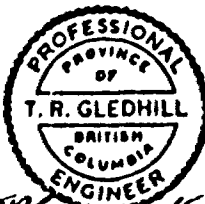
The program just completed has located two targets for further exploration. Phase II has been partially undertaken in that some geologic mapping and limited geophysics has been completed. Further mapping, geochemistry and geophysics are required to complete Phase II. This work should be directed toward the 16 areas determined as suitable for gold exploration with special attention to the two target areas, the shear zone and the major quartz vein.

It is recommended that the Phase II of the budget be amended to conform with the cost experience in the area. It now becomes \$17,000 instead of \$31,000 (see M.L. Hansen report of August 12, 1983). Phase III, drilling of targets, remains the same at \$75,000.

Respectfully submitted,



September 15, 1983.



T.R.G. 15/9/83  
Expire Date: June 24, 1984

*Tom Gledhill*  
Tom Gledhill, B.A., P.Eng.

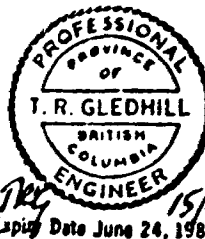


CERTIFICATE

I, Tom Gledhill, of the Borough of North York in the Province of Ontario hereby certify:

1. That I am a practicing Professional Engineer with offices at 21 Sandalwood Place, Don Mills, Ontario.
2. That I am a graduate of the University of Toronto and hold a degree in Physics and Geology and I am a member of the Association of Professional Engineers of the Province of Ontario and hold a non-resident license with the Association of the Professional Engineers of British Columbia. I have been practicing my profession for over twenty-five years.
3. That I do not have either directly or indirectly, nor do I expect to receive either directly or indirectly, any interest in the properties or securities of Bresea Resources Limited, its associates or affiliates.
4. That the accompanying report was prepared on the basis of a study of the following reports, maps and personal visits to the area:
  - a) Examination of the Assessment Files of Ontario Geological Survey.
  - b) O.G.S. Map 2420, Squaw Lake: N.F. Trowell 1974.
  - c) O.G.S. Map 2456, North Arm of Sturgeon Lake: N.F. Trowell 1981.
  - d) O.G.S. Open File Report 5291 "Geology of the Sturgeon Lake Area": N.F. Trowell 1980.
  - e) O.G.S. Map 1045, Squaw Lake Area, 1975 - Summary of exploration data
  - f) Ontario Department of Mines Volxxxix Part 11, 1930 Sturgeon Lake Gold Area, A.R. Graham
  - g) Personal visits to Sturgeon Lake between 1969 and the present as well as managing several exploration programs in the area.
  - h) Sim's Narrows Claim Group, M.Hansen, August 12, 1983.
5. That this certificate applies to properties in Squaw Lake Area, Ontario.

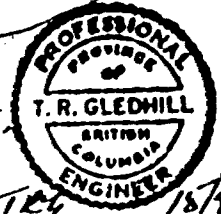
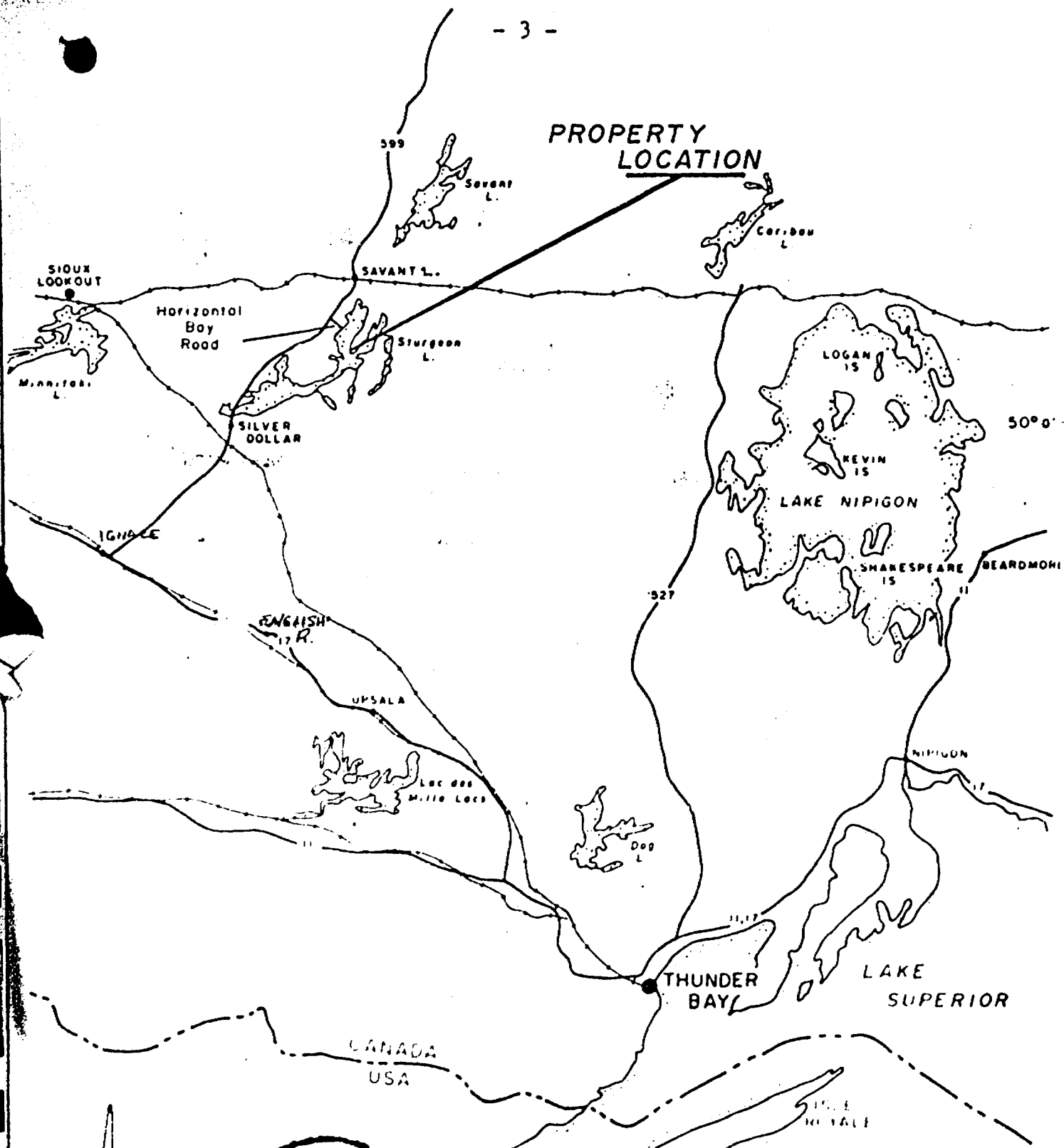
Dated at Don Mills, Ontario this 15th day of September 1983.



*Tom Gledhill*

1983/15/9/83 Tom Gledhill, B.A., P.Eng.  
Expiry Date June 24, 1984.

# PROPERTY LOCATION

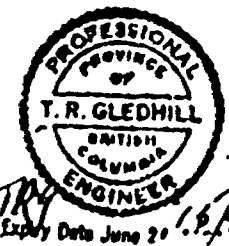
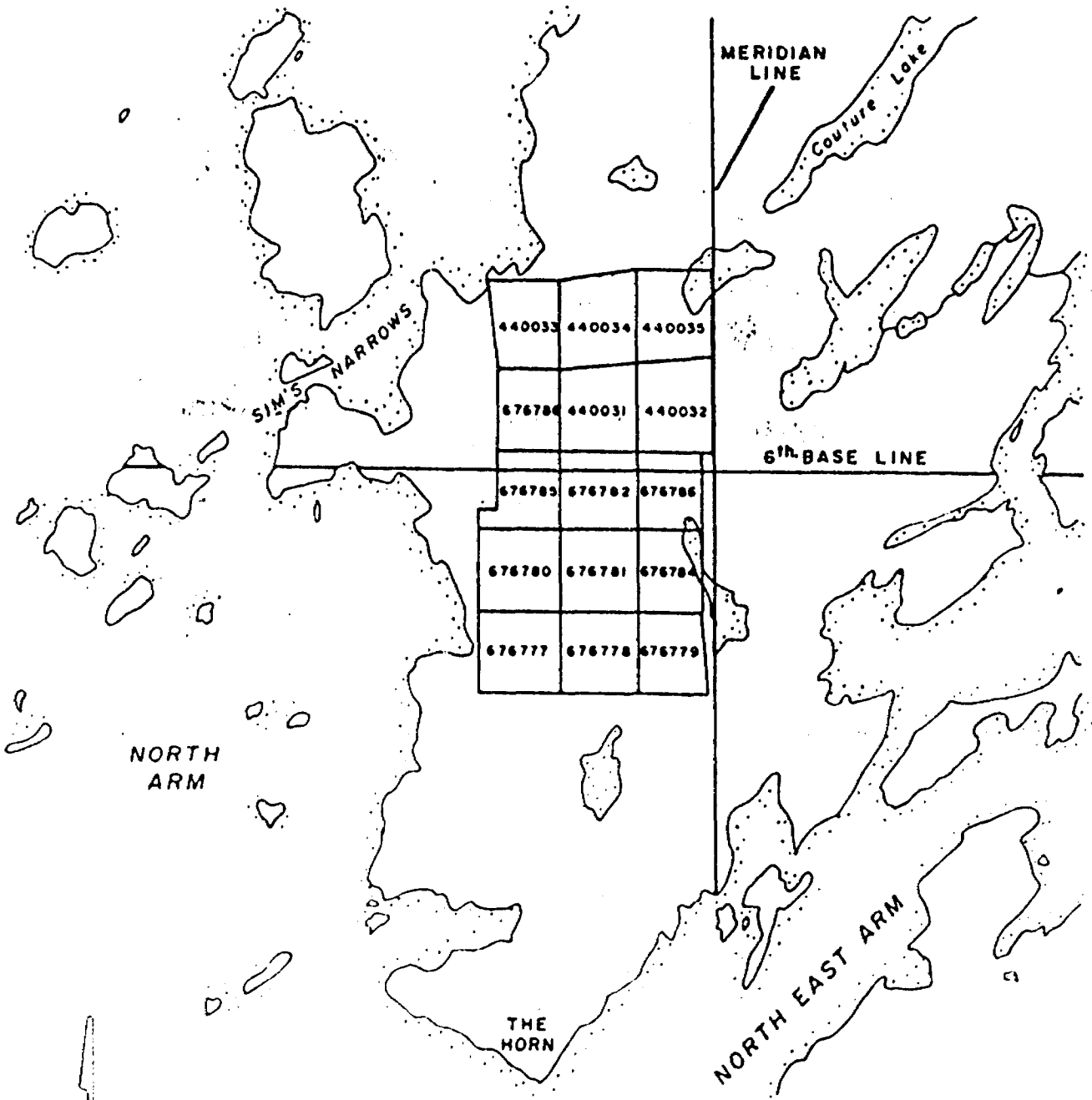


*TEG*  
 Expiry Date June 24, 1984.

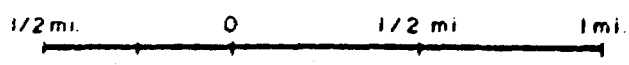
1" = 1cm

20cm 0 20cm 40cm 60cm 80cm

**BRESEA RESOURCES LTD**  
**SIM'S NARROWS CLAIM GRP**  
 STURGEON LK, ONTARIO  
 PATRICIA MILES - DIVISION  
**PROPERTY LOCATION MAP**



Expiry Date June 20 15/9/83

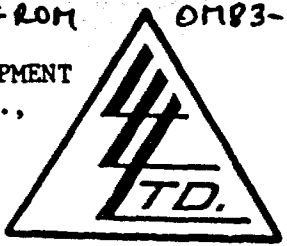


**BRESEA RESOURCES LTD.**  
**SIM'S NARROWS CLAIM GRP.**  
 STURGEON LK., ONTARIO  
 PATRICIA MINING DIVISION  
**CLAIM LOCATION MAP**

ADDED TO REPORT FROM O.M. 83-2-C-138  
 ADDED TO REPORT FROM O.M. 83-2-C-138

JAN 28/86  
 JAN 28/86

To: W.G. TIMMINS EXPLORATION & DEVELOPMENT  
 LTD.,  
 203, Markdale Crescent N.W.,  
 Calgary, Alberta T2N 3T8



File No. 25078  
 Date August 12, 1983  
 Samples Rock

ATTN: M.C. Hansen

Certificate of  
 ASSAY OF  
 LORING LABORATORIES LTD.

Page # 1

SAMPLE No.	OZ./TON GOLD	
"Rock Samples"		
	1004	.978
	1005	3.924
	1006	5.302
	1007	.062
	1058	.662
	1059	.032
<p>* Copper Assays to Follow.</p> <p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE          ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .</p>		

*Rainbow Island  
 2.8 km SW of  
 Rainbow Island  
 2.8 km SW of  
 property*

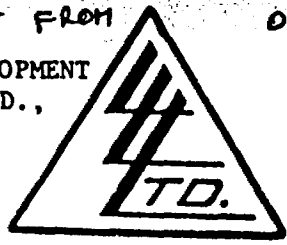
Rejects Retained one month.  
 Pulps Retained one month  
 unless specific arrangements  
 made in advance.

*D. Enders*  
 Assayer

ADDED TO REPORT FROM 0M 83-2-C-138  
 ADDED TO REPORT FROM 0M 83-2-C-138

To: W.G. TIMMINS EXPLORATION & DEVELOPMENT  
 203, Parkdale Crescent N.W., LTD.,  
 Calgary, Alberta T2N 3T8

File No. 25078  
 Date August 12, 1983  
 Samples Rock



ATTN: M.C. Hansen

Certificate of  
 ASSAY of  
 LORING LABORATORIES LTD.

Page # 2

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag	PPB Au
<u>"Rock Samples"</u>					
1001	280	16	36	1.6	165
1002	+1000	20	10	1.3	25
1003	70	10	21	0.7	20
1004	+1000	30	24	2.2	+1000
1005	330	29	8	9.1	+1000
1006	890	22	16	14.1	+1000
1007	28	8	34	0.6	+1000
1008	58	6	26	NIL	70
1009	90	11	31	NIL	20
1010	22	6	23	NIL	NIL
1011	220	9	30	NIL	5
1012	122	9	35	NIL	NIL
1013	23	9	23	NIL	NIL
1014	+1000	6	32	NIL	NIL
1015	240	7	36	5	NIL
1016	5	4	11	NIL	NIL
1017	5	5	25	0.1	NIL
1018	3	4	26	0.4	NIL
1019	2	3	20	0.1	NIL
1020	2	4	22	NIL	NIL
1021	185	3	24	NIL	NIL
1022	480	4	36	0.1	NIL
1023	44	8	15	NIL	NIL
1024	23	4	24	NIL	NIL
1025	570	7	54	0.2	15
1026	69	8	57	NIL	NIL
1027	4	8	10	1.2	NIL
1028	4	4	28	NIL	NIL

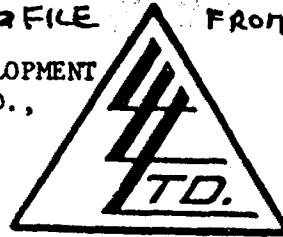
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
 Pulps Retained one month  
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*[Signature]*  
 Assayer

ADDED TO FILE FROM 0M83-2-C-138  
 ADDED TO FILE FROM 0M83-2-C-138

To: W.G. TIMMINS EXPLORATION & DEVELOPMENT  
 ... 203, Parkdale Crescent N.W., LTD.,  
 ... Calgary, Alberta T2N 3T8



File No. 25078  
 Date August 12, 1983  
 Samples Rock

ATTN: M.C. Hansen

Certificate of  
 ASSAY OF  
 LORING LABORATORIES LTD.

Page 3

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag	PPB Au
1029	2	3	11	NIL	NIL
1030	69	8	38	0.1	NIL
1031	12	5	21	NIL	45
1032	6	18	9	0.3	NIL
1033	40	8	32	NIL	NIL
1034	4	9	30	NIL	NIL
1035	+1000	10	19	1.2	NIL
1036	54	61	11	0.3	NIL
1037	+1000	10	26	0.4	NIL
1038	14	3	4	0.1	NIL
1039	26	5	35	NIL	NIL
1040	70	10	89	NIL	NIL
1041	151	4	36	NIL	NIL
1042	80	5	74	NIL	NIL
1043	6	3	12	NIL	NIL
1044	120	9	173	NIL	NIL
1045	+1000	3	12	0.3	NIL
1046	36	2	6	NIL	NIL
1047	+1000	11	330	0.2	100
1048	690	8	198	NIL	80
1049	8	10	36	NIL	NIL
1050	3	12	188	NIL	NIL
1051	2	3	8	0.1	140
1052	2	4	20	0.1	55
1053	2	10	31	NIL	580
1054	11	9	88	NIL	NIL
1055	107	8	61	NIL	70
1056	21	11	130	NIL	50
1057	+1000	13	15	8.1	65
1058	36	9	10	0.2	+1000
1059	68	4	8	NIL	+1000

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
 Pulps Retained one month  
 unless specific arrangements  
 made in advance.

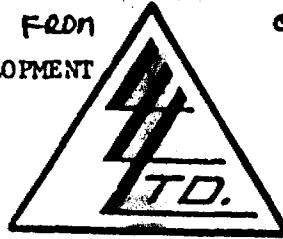
*D. Erskine*  
 Assayer

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ADDED TO FILE FROM

OM 83-2-C-138  
OM 83-2-C-138

To: W.C. TIMMINS EXPLORATION & DEVELOPMENT LTD.,  
203, Parkdale Crescent N.W.,  
Calgary, Alberta T2N 3T8

File No. 25078  
Date August 12, 1983  
Samples Rock



ATTN: M.C. Hansen

Certificate of  
ASSAY of  
LORING LABORATORIES LTD.

Page # 4

SAMPLE No.	PPM Cu	PPM Pb	PPM Zn	PPM Ag	PPB Au
1060	35	4	12	NIL	390
1061	48	320	102	0.3	NIL
1062	42	18	140	NIL	NIL
1063	10	44	126	NIL	NIL
1064	56	63	171	NIL	NIL

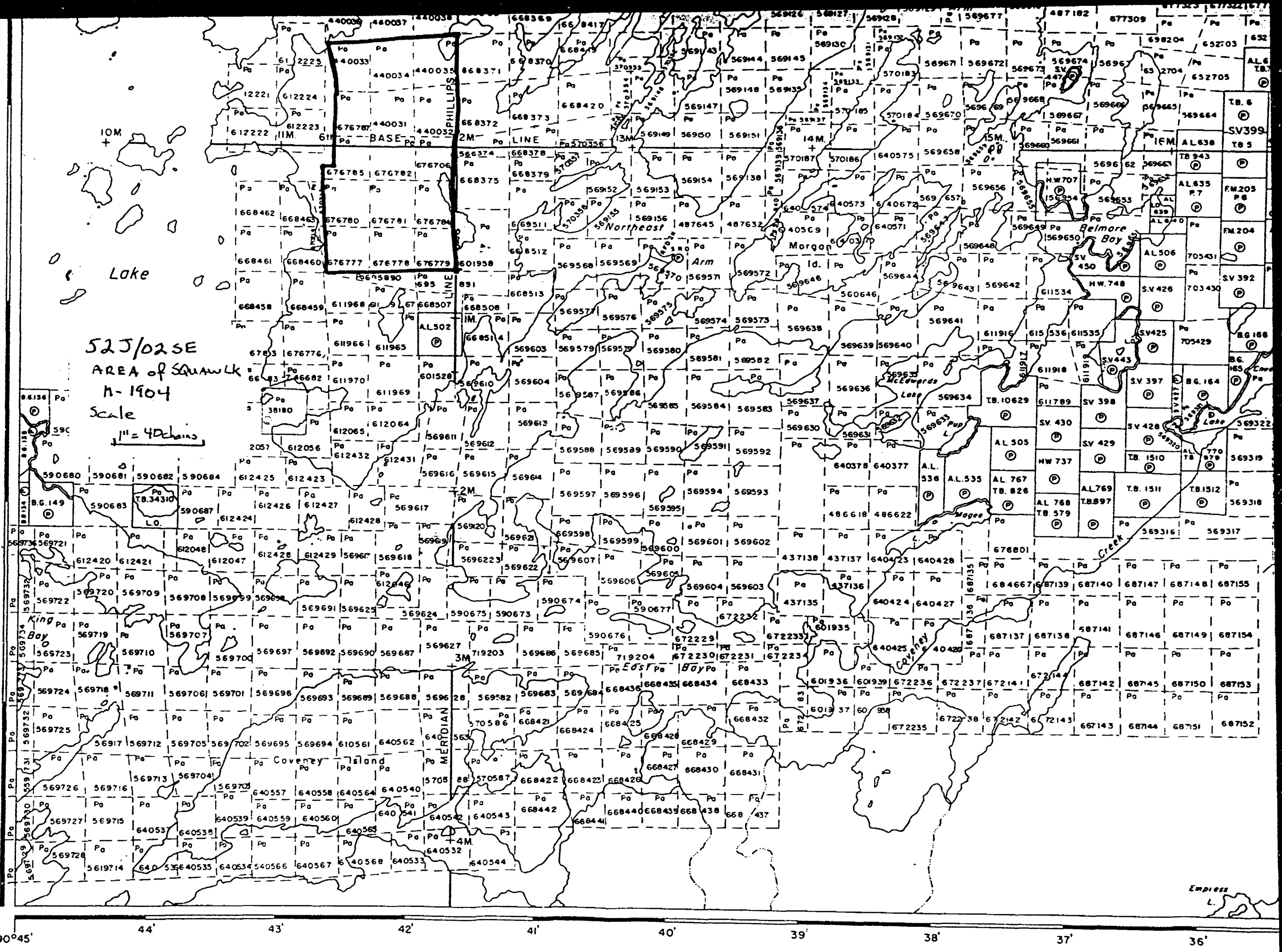
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE  
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
Pulps Retained one month  
unless specific arrangements  
made in advance.

Assayer



Fourbay Lake Area - G-2



52J/02SE  
AREA of SQUAW LK  
N-1904  
Scale  
1" = 40 chains

50°00'

90°45' 44' 43' 42' 41' 40' 39' 38' 37' 36'

Empress L.





Ministry of  
Natural  
Resources  
Ontario  
F.W.M.

Report of Work  
(Geophysical, Geological,  
Geochemical and Expenditures)

#84-19

man 23rd

Instructions - Please type or print  
- If number of mining claims traversed  
exceeds space on this form, attach a list.  
Note - Only days credits calculated in the  
"Expenditures" section may be entered in  
the "Expend. Days Cr." columns.  
- Do not use shaded areas below.

2.6551

The Mining Act

Mining Lands

Type of Survey(s) <b>VLF-EM, GEOCHEMICAL, GEOLOGICAL</b>	Township or Area <b>SQUAW LAKE, (M1104)</b>
Claim Holder(s) <del>XXXXXXXXXXXXXXXXXXXXXXXXXXXX</del> <b>Rocco A. SCHIRALLI</b>	Prospector's Licence No. <b>A39586</b>
Address <b>Ste. 420-181 University Avenue, Toronto, Ontario M5H 3M7</b>	
Survey Company <b>W.G. TIMMINS EXPLORATION &amp; DEVELOPMENT LTD</b>	Date of Survey (from & to) Day   Mo.   Yr.   Day   Mo.   Yr. <b>27 05 83 26 07 83</b>
Name and Address of Author (of Geo Technical report) <b>M. HANSEN #203 4 PARKDALE CR. NW CALGARY ALTA T2N-3T8</b>	
Total Miles of line Cut <b>13.45 km</b>	

Credits Requested per Each Claim in Columns at right		
Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	20
	Geochemical	20
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
Airborne Credits	Geological	
	Geochemical	
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)		
Prefix	Mining Claim Number	Expend. Days Cr.
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	440032	
	440033	
	440034	
	440035	
	676777	
	676778	
	676779	
	676780	
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	676782	
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	676785	
	676786	
	676787	

RECEIVED  
FEB 14 1984  
MINING LANDS DIV.  
PATRICIA MINING DIV.  
RECEIVED  
JAN 20 1984  
A.M. P.M.  
7 8 9 10 11 12 1 2 3 4 5 6

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures \$  + 15 = Total Days Credits

Instructions  
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Pa. 440031

Total number of mining claims covered by this report of work. **15**

For Office Use Only	
Total Days Cr. Recorded <b>1200</b>	Date Recorded <b>Jan. 23, 1984</b>
Date Approved as Recorded	Mining Recorder <i>[Signature]</i>
	Branch Director <b>X</b>

Date **JAN 17 1984** Recorded Holder or Agent (Signature) *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying  
**W. G. TIMMINS 203-4 PARKDALE CRES N.W. CALGARY, ALBERTA T2N 3T8**

Date Certified **JAN. 17, 1984** Certified by (Signature) *[Signature]*



Ministry of  
Natural  
Resources

Technical Assessment  
Work Credits

File  
2.6551

Date  
1984 11 26

Mining Recorder's Report of  
Work No. 84-19

Recorded Holder  
ROCCO A. SCHIRALLI

Township or Area  
SQUAW LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<b>Geophysical</b> Electromagnetic <u>VLF</u> <u>16.5</u> days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>12.5</u> days Geochemical _____ days Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	PA 440031 to 35 inclusive 676777 to 82 inclusive 676784 to 87 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey       Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—80;



Ministry of  
Natural  
Resources

Technical Assessment  
Work Credits

File 2.6551

Date 1984 11 26

Mining Recorder's Report of  
Work No. 84-19

Recorded Holder

ROCCO A. SCHIRALLI

Township or Area

SQUAW LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p><b>Geophysical</b></p> <p>Electromagnetic _____ days</p> <p>Magnetometer _____ days</p> <p>Radiometric _____ days</p> <p>Induced polarization _____ days</p> <p>Other _____ days</p> <p>Section 77 (19) See "Mining Claims Assessed" column</p> <p>Geological _____ days</p> <p>Geochemical _____ 23 days</p> <p>Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/></p> <p>Special provision <input type="checkbox"/> Ground <input type="checkbox"/></p> <p><input type="checkbox"/> Credits have been reduced because of partial coverage of claims.</p> <p><input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.</p>	<p>PA 440031 to 33 inclusive 676778 - 79 676781 - 82 676784</p>

Special credits under section 77 (16) for the following mining claims

[Empty box for special credits]

No credits have been allowed for the following mining claims

- not sufficiently covered by the survey       Insufficient technical data filed

PA 440034 - 35  
676777  
676780  
676785 to 87 inclusive

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—80;



Geotechnical  
Report  
Approval

File  
2.6551

Mining Lands Comments

- duplicate with O.M.E.P.  
 - No claim lines — Not too bad; would help to clarify to  
 - NO readings on V.L.F. plan.  
 - Outcrops not coloured. — they have patterns - O.K.  
 - Plans not signed.

To: Geophysics Mr. Barlow.

Comments

- maps not signed  
 - require plotted readings for VLT  
 - plotting position not clear

Approved  Wish to see again with corrections

Date May 14/84 Signature RRLv

To: Geology - Expenditures Mr. Kustra

Comments

Approved  Wish to see again with corrections

Date April 10/84 Signature Kustra

To: Geochemistry DR. FORTESCUE.

Comments

Survey not adequate for official provisions.  
 Survey not adequate for

Approved  Wish to see again with corrections

Date May 27<sup>th</sup> 1984 Signature J. L. Fortune

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)



Ministry of  
Natural  
Resources

Geotechnical  
Report  
Approval

File  
2.6557

Mining Lands Comments

*You asked to see this again*

*- 41 geotechnical samples taken*

To: Geophysics *R. Barlow*

Comments

Approved     Wish to see again with corrections    Date *Oct 15/84*    Signature *R. Barlow*

To: Geology - Expenditures

Comments

Approved     Wish to see again with corrections    Date    Signature

To: Geochemistry

*Duplicate with O.M.E.P.*

*Ygal*

Approved     Wish to see again with corrections    Date    Signature

To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)



NOV 9 1984

BRESEA RESOURCES

1. Type of Survey GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL

2. Township or Area PATRICIA MINING DIVISION - SQUAW LAKE AREA

3. Numbers of Mining Claims Traversed by Survey

From 440031 to 440035 incl

From 676777 to 676782 incl

From 676784 to 676787 incl

TOTAL OF 15 CLAIMS

4. Number of Miles of Line Cut 13.45 km Flown

\*5. Number of Stations Established ~ 500

\*6. Make and type of Instrument Used ULF-EM SARGE MODEL 27

\*7. Scale Constant or Sensitivity

\*8. Frequency Used and Power Output MAINE - CUTLER (17.0 kHz)

9. Summary of Assessment Credits (details on reverse side)

Total 8 hour Technical Days (Include Consultants, Draughting etc.) 86

Total 8 hour Line-Cutting Days 20

Calculation

$$\frac{86}{\text{Technical}} \times 7 = \frac{602}{\text{Line-cutting}} + \frac{20}{\text{Line-cutting}} = \frac{622}{\text{Line-cutting}} \div \frac{15}{\text{Number of claims}} = \frac{41.5}{\text{Assessment credits per claim}}$$

The dates listed on this form represent working time spent entirely within the limits of the above listed claims  Check  
If otherwise, please explain

Dated: NOV 2 1984

Signed: W.G. Timmins  
(W.G. TIMMINS EXECUTIVE)

NOTE - THIS DOES NOT INCLUDE ASSAYING TIMES!

- Note:
- (A) \* Complete only if applicable.
  - (B) Complete list of names, addresses and dates on reverse side.
  - (C) Submit separate breakdown for each type of survey.
  - (D) Submit in duplicate.

Details of Assessment Work Breakdown

FIELD WORK

Type of Work	Name & Address	Dates Worked	Number of 8 hour days
6 GEOLOGICAL*	M. HANSEN 479 E, 11 Ave F. VANC.	MAY 30 - JULY 21 1983	17
"	R. KRAUSE 981, W 17th VANC.	MAY 30 - JULY 21 1983	17
* (includes Geochemical sampling and Mobilization)			
GEOPHYSICAL	M. HANSEN (in above)	(in above)	13
"	R. KRAUSE (in above)	(in above)	13

CONSULTANTS

Name & Address	Dates Worked (specify in field or office)	Number of 8 hour days
M. HANSEN (in above)	JULY 23 - AUG 7 1983 (off)	11
T. GLEDHILL 21 SANDALWOOD DEN MILLS CRT.	SEPT 14/15 '83 (off)	2

DRAUGHTSMAN, TYPING, OTHERS (specify)

Name & Address	Type of Work	Dates Worked	Number of 8 hour days
R. KRAUSE (in above)	MAP PREPARATION	JULY 23 - JULY 31	6
TRAD. DRAFTING 6327, 126 ST. SUREY BC	DRAFTING	AUG 7-10	4
B. KOUJIN 201 4723 J. ST SW (ALGARY)	TYPING, EDITING, etc.	AUG 10-12	3

TOTAL 8 HOUR TECHNICAL DAYS 86

LINE-CUTTING

Name	Address	Dates Worked	Number of 8 hour days
M. HANSEN	in above	MAY 30 - JULY 21	10
R. KRAUSE	in above	MAY 30 - JULY 21	10

TOTAL 8 HOUR LINE-CUTTING DAYS 20

$$\text{Geological + Geochemical} - \overset{\text{Days}}{17 + 17}$$

$$\text{Geophysical (VLF)} - 13 + 13 = 26$$

$$\text{Consultants} - 11 + 2 = 13$$

$$\text{Drafting} - 6 + 4 + 3 = 13$$

$$26 \div 3 = 8.66 \text{ on each survey}$$

$$\text{Linecutting} - 10 + 10 = 20 \quad \} \div 3 = 6.66 \text{ on each survey}$$

$$\text{Geological Credits: } 17 \times 7 = 119$$

$$8.66 \times 7 = 60.66 \text{ (Consultants + Drafting)}$$

$$+ \frac{6.66}{186.33 \text{ days}} \text{ (linecutting)}$$

$$\div 15 \text{ claims} = 12.42 \Rightarrow 12.5 \text{ days}$$

$$\text{Geochemical Credits: } 17 \times 7 = 119$$

$$8.66 \times 7 = 60.66$$

$$+ \frac{6.66}{186.33 \text{ days}}$$

$$\div 8 \text{ claims} = 23.29 \Rightarrow 23 \text{ days}$$

$$\text{Geophysical (V.L.F.) Credits: } 26 \times 7 = 182$$

$$8.66 \times 7 = 60.66$$

$$+ \frac{6.66}{249.32 \text{ days}}$$

$$\div 15 \text{ claims} = 16.62 \Rightarrow 16.5 \text{ days}$$





1984 04 02

Your file: 19  
Our file: 2.6551

Mr. Albert Hanson  
Mining Recorder  
Ministry of Natural Resources  
P.O. Box 669  
Sioux Lookout, Ontario  
POV 2T0

Dear Sir:

We have received reports and maps for a Geophysical Geological and Geochemical Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims PA 440031 et al in the Area of Squaw Lake.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3

• Phone: (416) 965-6918

A.Barr:mc

cc: ccRocco A. Schiralli  
Suite 4800  
181 University Avenue  
Toronto, Ontario M5H 3M7

cc: M. Hansen  
Suite 203  
4 Parkdale Cr. N.W.  
Calgary, Alberta  
T2N 3T8

June 27, 1984

2.6551

Rocco A. Shiralli  
Suite 420  
181 University Avenue  
Toronto, Ontario  
M5H 3M7

Dear Sir:

RE: Geophysical (Electromagnetic), Geological and Geochemical  
Survey submitted on Mining Claims PA 440031 et al. in the  
Squaw Lake Area

Returned herein are the plans for the above-mentioned survey.  
In order to complete your submission, the following is required:

- 1) all plans to be signed by the author of the report ✓
- 2) actual VLF raw readings plotted at each station on ✓  
the plans
- 3) plotting position to be indicated on grid lines ✓

When submitting this material, please quote file 2.6551.

For further information, please contact Mr. Ray Pichette at  
(416) 965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

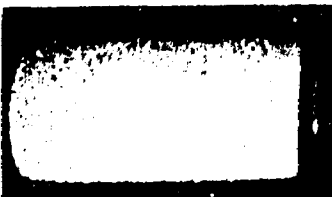
Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416) 965-4888

S. Hurst:em

Encl.

cc: Mining Recorder  
Sioux Lookout, Ontario

*claim holder: →*  
*400 B1*  
*67*  
*87*  
*83*  
*Roy Spence*  
*Rocco Shiralli*  
*"*  
*"*  
*"*



**TOM GLEDHILL, P.ENG.**  
MINERAL EXPLORATION

REGISTRE

21 SANDALWOOD PLACE  
DON MILLS, ONTARIO  
M3B 1L5

- CONSULTING ENGINEER
- SPECIALIST - EXPLORATIONS
- DESIGNATED BY A.P.E.O.

August 15, 1984

File: 2.6551

Rocco A. Shiralli  
Suite 420  
181 University Avenue  
Toronto, Ontario  
M5H 3M7

Dear Sir:

RE: Geophysical (Electromagnetic), Geology and  
Geochemical Survey submitted on Mining Claims  
PA 440031 et al in the Area of Squaw Lake

Enclosed is a copy of our letter dated June 27, 1984  
requesting additional information for the above-mentioned  
survey.

Unless you can provide the required data by August <sup>(27)</sup> 1984  
the mining recorder will be directed to cancel the work  
credits recorded on January 23, 1984.

For further information, please contact Mr. Ray Pichette  
at (416)965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone: (416)965-4888

S. Hurst:mc

cc: Mining Recorder  
Sioux Lookout, Ontario

cc: W.G. Timmins Exploration &  
Development Ltd  
203 4 Parkdale Crescent N W  
Calgary, Alberta  
T2N 3T8

Encl.

*84-08-21  
received called  
from Ms. Kirkwood  
(P. Shiralli's office)  
868-0160*

*→ Allow Till  
Sept 17  
receipt for  
Data =  
Ray*



October 25, 1984

File: 2.6551

Rocco A. Schiralli  
Suite 420  
181 University Avenue  
Toronto, Ontario  
M5H 3M7

Dear Sir:

RE: Geophysical (Electromagnetic), Geology  
and Geochemical Survey submitted on  
Mining Claims PA 440031 et al in the  
Area of Squaw Lake

---

This survey will not be accepted for special provision credits as the line spacing exceeds 400 feet for a major portion of the survey, and because the number of geochemical samples taken per claim is not sufficient.

Please provide a man-days breakdown listing the names and addresses of the employees and the dates that each man worked on the various phases of the survey. The survey will then be assessed under the provisions of subsection (9), (11) and (12) of Section 77 of the Mining Act R.S.O. 1980.

I apologize for having to write a second time on this matter. I assure you that upon receipt of the above information, assessment of the survey will be done promptly and a statement of approved credits will be issued.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone:(416)965-4888

D. Kinvig:mc

cc: Mining Recorder  
Sioux Lookout, Ontario  
File: 84-10

cc: W.G. Timmins Exploration and  
Development Ltd  
203 4 Parkdale Crescent NW  
Calgary, Alberta T2N 3T8  
cc: Tom Gledhill, P.Eng  
21 Sandalwood Place  
Don Mills, Ontario M3B 1L5



Natural  
Resources

Ontario

*Dec 11/84*

1984 11 26

Your File: 84-19  
Our File: 2.6551

Mining Recorder  
Ministry of Natural Resources  
P.O. Box 309  
Sioux Lookout, Ontario  
POV 2T0

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3

*R.D.* K.D. Kinvig:mc

Encls.

cc: Rocco A. Schiralli  
Suite 420  
181 University Avenue  
Toronto, Ontario  
M5H 3M7

cc: Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario



Ministry of  
Natural  
Resources

Ontario

Notice of Intent  
for Technical Reports

1984 11 26

2.6551/84-19

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

2.6551

1984 12 20

Your File: 84-19  
Our File: 2.6551

Mining Recorder  
Ministry of Natural Resources  
P.O. Box 309  
Sioux Lookout, Ontario  
POV 2T0

Dear Sir:

RE: Notice of Intent dated November 26, 1984  
Geophysical (Electromagnetic), Geology &  
Geochemical Survey on Mining Claims PA 440031  
et al in the Area of Squaw Lake.

The assessment work credits, as listed with the  
above-mentioned Notice of Intent, have been approved  
as of the above date.

Please inform the recorded holder of these mining  
claims and so indicate on your records.

Yours sincerely,

S.E. Yundt  
Director  
Land Management Branch

Whitney Block, Room 6643  
Queen's Park  
Toronto, Ontario  
M7A 1W3  
Phone:(416)965-6918

*imp.*  
*L.D.*

D. Kinvig:sc

cc: W.G. Timmins Exploration & Development Limited  
203 / 4 Parkdale Crescent NW  
Calgary, Alberta  
T2N 3T8

cc: Tom Gledhill, P. Eng  
21 Sandalwood Place  
Don Mills, Ontario  
M3B 1L5

cc: Mr. G.H. Ferguson  
Mining & Lands Commissioner  
Toronto, Ontario

cc: Rocco A. Schiralli  
Suite 420  
181 University Ave  
Toronto, Ontario  
M5H 3M7

Resident Geologist  
Sioux Lookout, Ontario



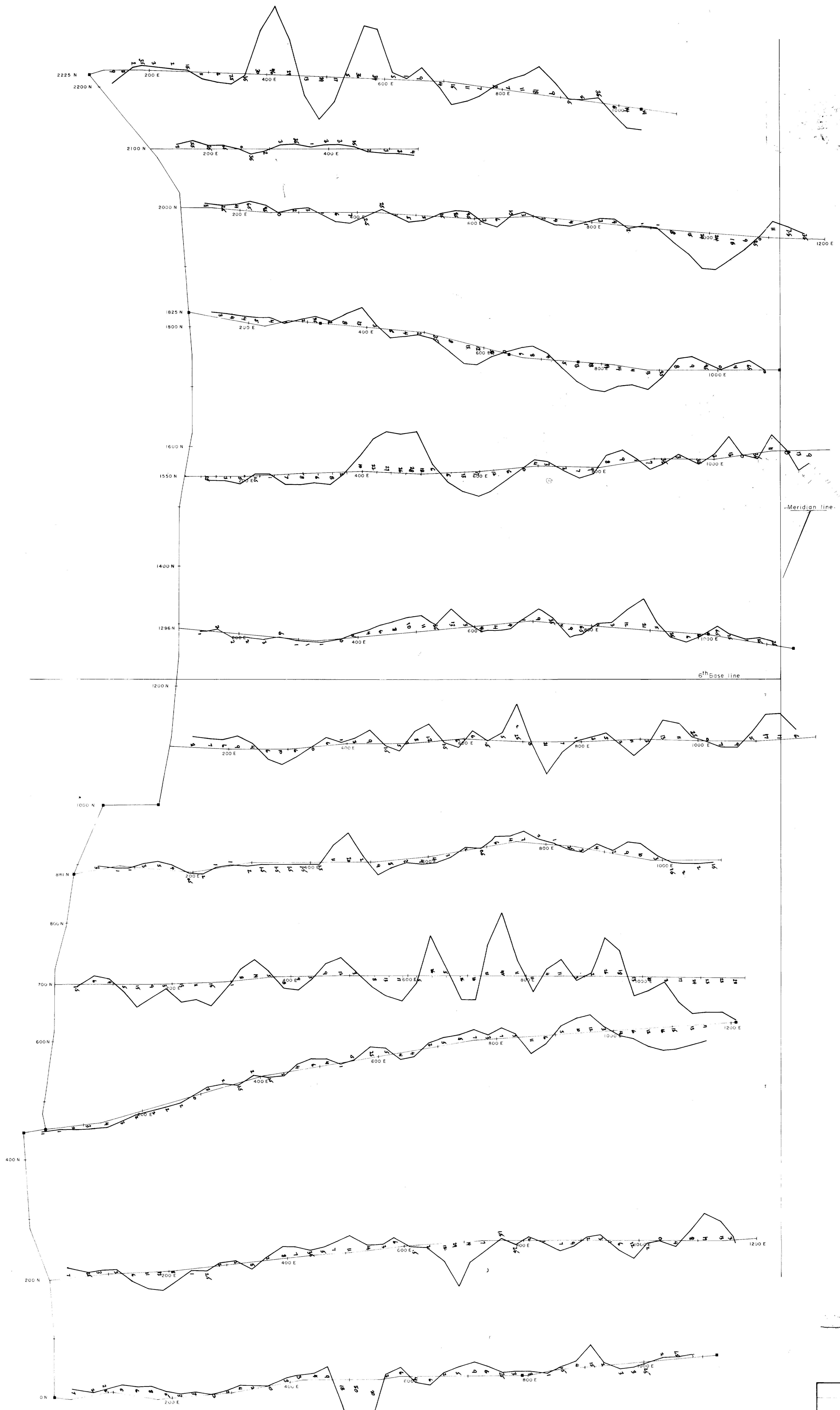


**FOR ADDITIONAL**

**INFORMATION**

**SEE MAPS:**

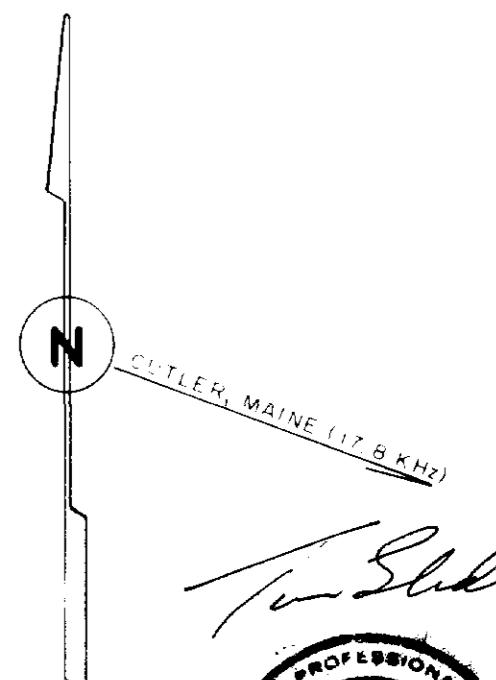
52J/02SE-0087 # 1-3



200

Meridian line

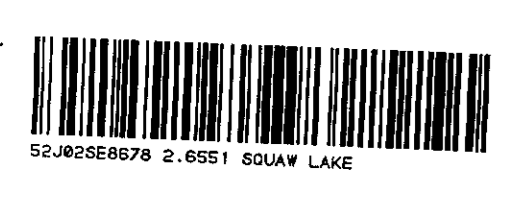
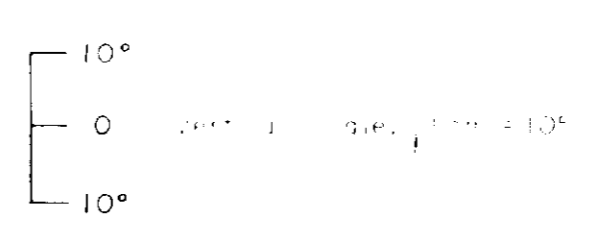
6th Base line



*T. Bell*  
 27/6/97  
 26551

<b>BRESEA RESOURCES LTD.</b>			
SIM'S NARROWS CLAIM GROUP			
STUR-FON LAKE, ONTARIO			
PATRICIA MINING DIVISION			
VLF-EM PROFILES			
24	Aug 03	3	B.D.S.

525/02SE-0087, #1



LEGEND

LITHOLOGY

MAFIC TO INTERMEDIATE METAVOLCANICS

- Pillowed flows
- Pillowed flows, (v. small pillows)
- Fine-to medium grained flows
- Medium-to coarse grained flows

FELSIC TO INTERMEDIATE METAVOLCANICS

- Quartz / Quartz-feldspar porphyry (tuff, volcaniclastic, volcanic sediment)

METAMORPHOSED MAFIC (INTRUSIVE) ROCKS

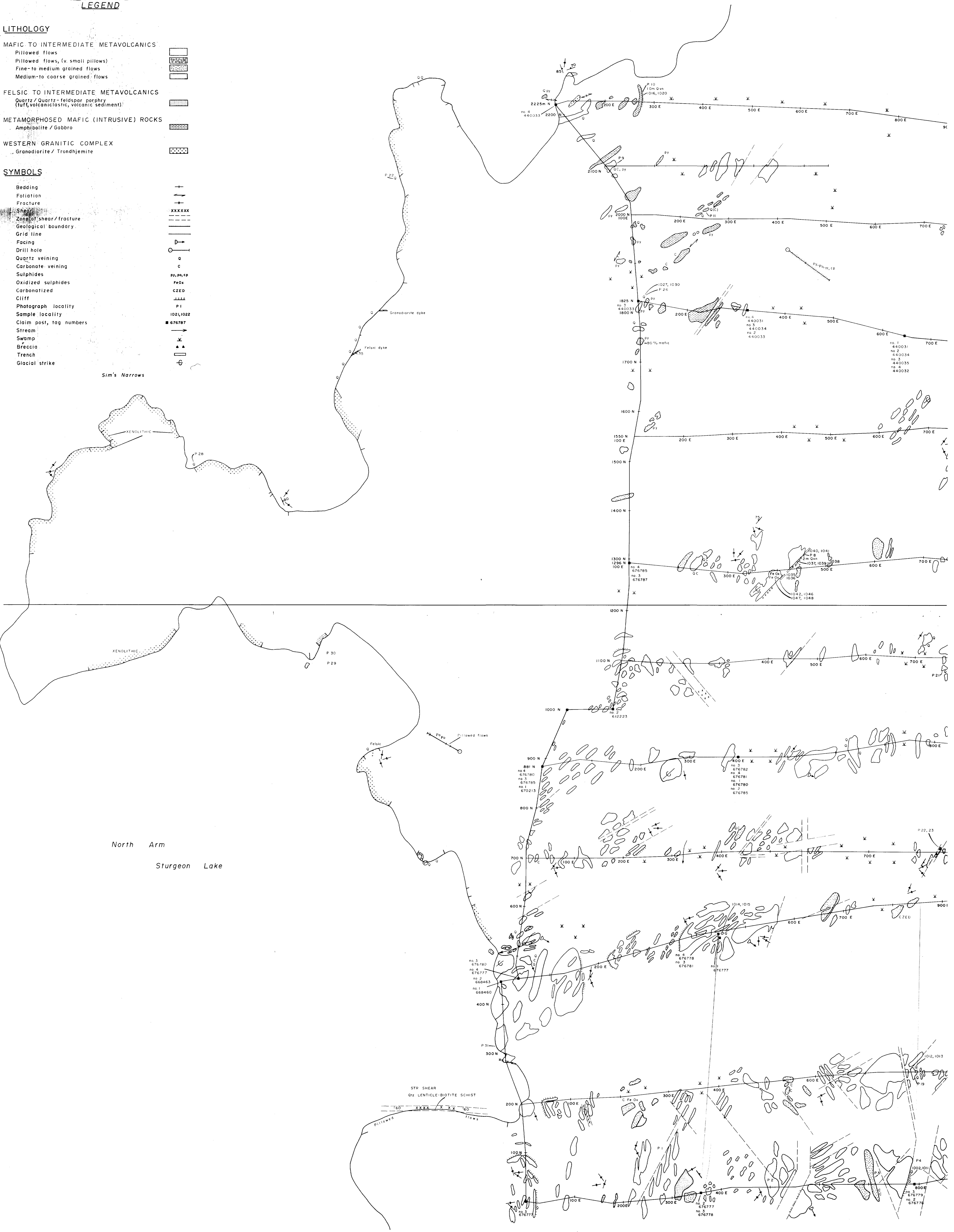
- Amphibolite / Gabbro

WESTERN GRANITIC COMPLEX

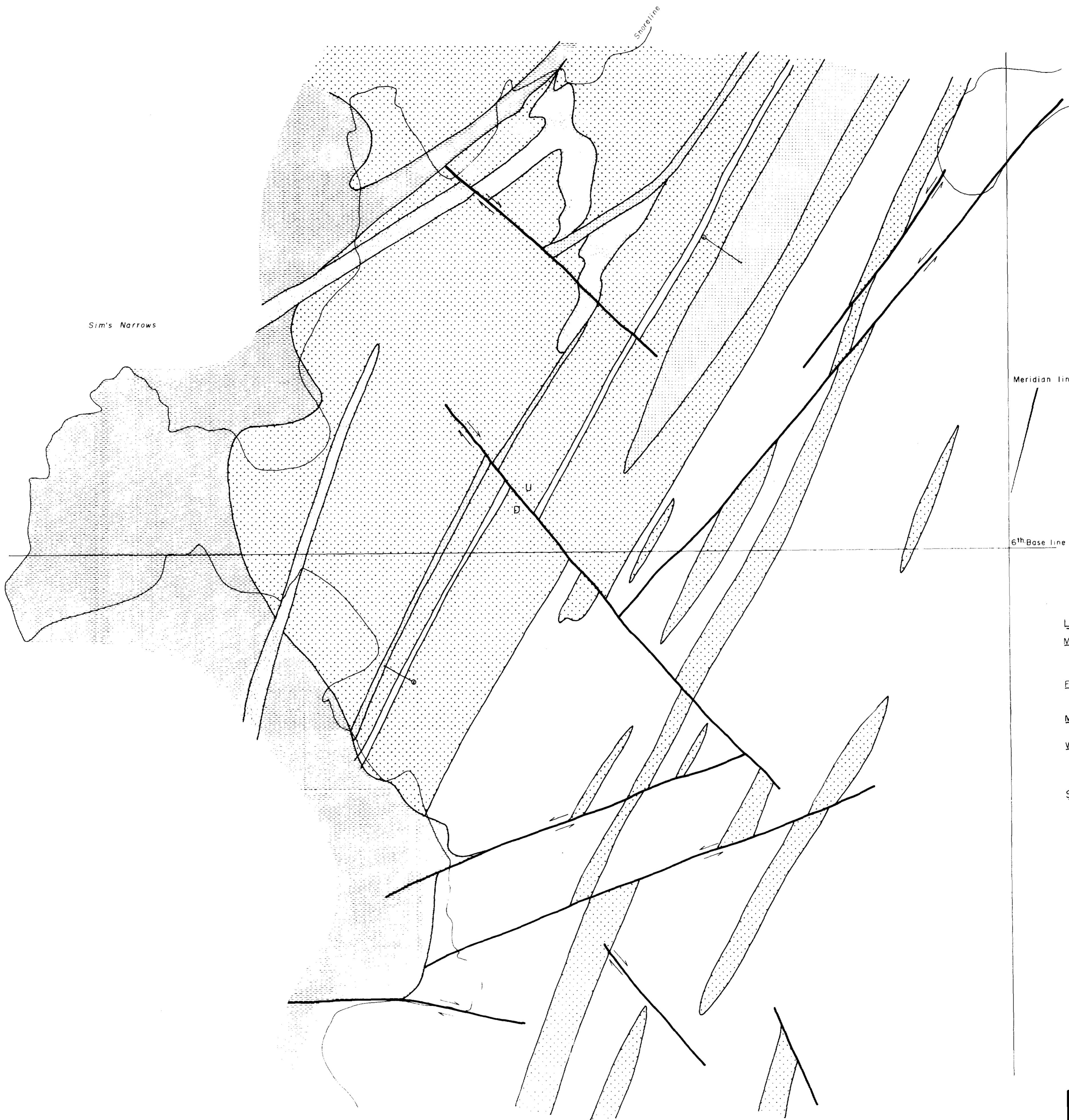
- Granodiorite / Trondhjemite

SYMBOLS

- Bedding
- Foliation
- Fracture
- Shear
- Zone of shear / fracture
- Geological boundary
- Grid line
- Facing
- Drill hole
- Quartz veining
- Carbonate veining
- Sulphides
- Oxidized sulphides
- Carbonatized
- Cliff
- Photograph locality
- Sample locality
- Claim post, tag numbers
- Stream
- Swamp
- Breccia
- Trench
- Glacial strike



0087#2



**LEGEND**

**LITHOLOGY**

- MAFIC TO INTERMEDIATE METAVOLCANICS**
- Pillowed flows
  - Massive to porphyritic flows
- FELSIC METAVOLCANICS & METASEDIMENTS**
- Tuff, volcaniclastic, volcanic sediments, wacke, arrose
- METAMORPHOSED MAFIC INTRUSIVE ROCKS**
- Gabbro dykes / sills
- WESTERN GRANITIC COMPLEX**
- Granodiorite / trondhjemite

**SYMBOLS**

- Fault/shear (showing movement)
- Bedding - strike 025°-030° dip 075°-090° SE.
- Geological boundary
- Grid line
- Drill hole



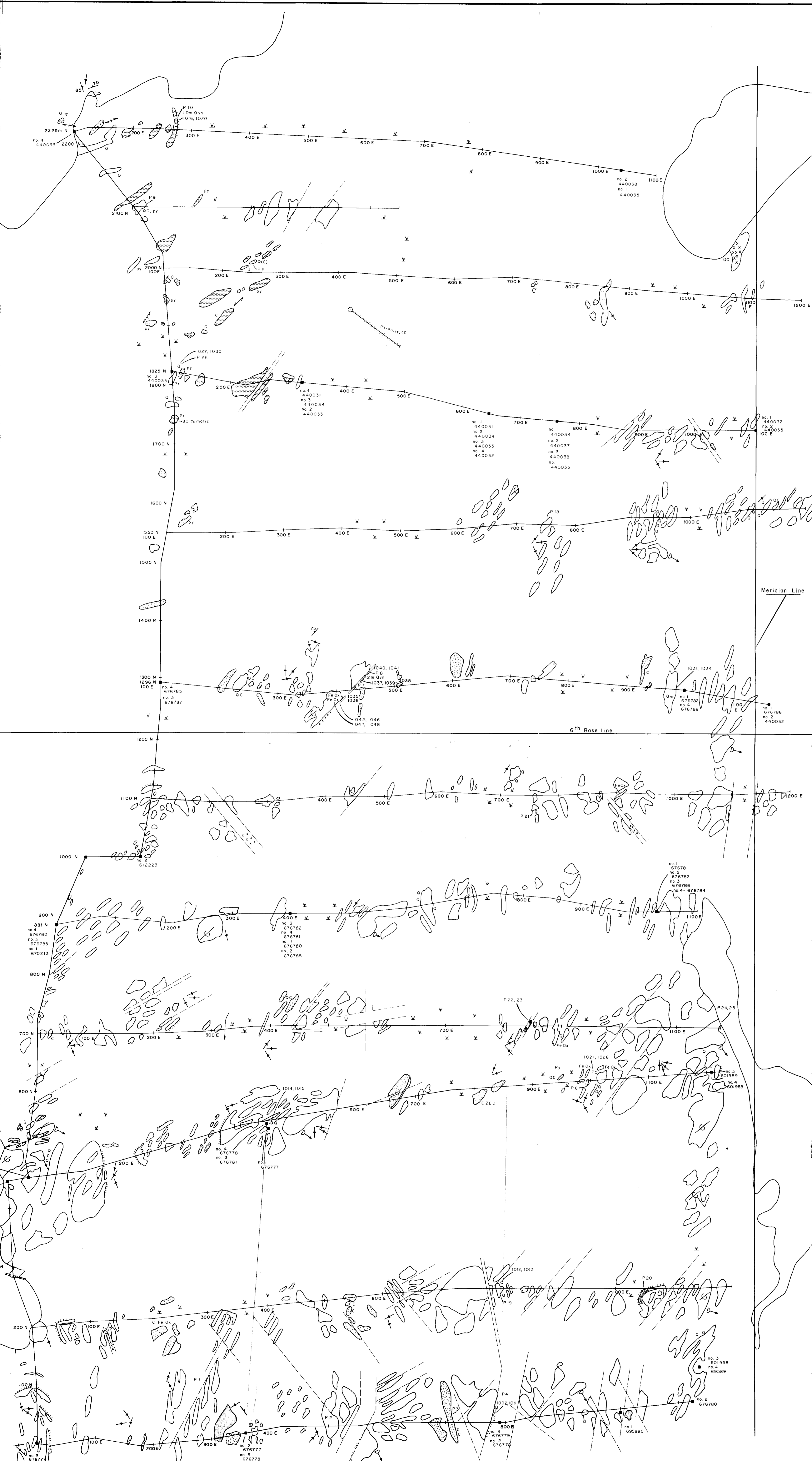
400m 200m 0 400m

0M83-2-6-138 2-6551 (dup)

<b>BRESEA RESOURCES LTD.</b>			
SIM'S NARROWS CLAIM GROUP			
STURGEON LAKE, ONTARIO			
PATRICIA MINING DIVISION			
<b>INTERPRETIVE GEOLOGICAL MAP</b>			
Geology by: Mark C. Hansen			
scale	date	figure no.	drawn by
1:50,000	Aug 83	4	RJS

52J/02SE-0087, #3





**LEGEND**

**LITHOLOGY**

- MAFIC TO INTERMEDIATE METAVOLCANICS**
- Pillowed flows
  - Pillowed flows, (v. small pillows)
  - Fine- to medium grained flows
  - Medium- to coarse grained flows
- FELSIC TO INTERMEDIATE METAVOLCANICS**
- Quartz / Quartz- feldspar porphyry (tuff, volcaniclastic, volcanic sediment)
- METAMORPHOSED MAFIC (INTRUSIVE) ROCKS**
- Amphibolite / Gabbro
- WESTERN GRANITIC COMPLEX**
- Granodiorite / Trondhjemite

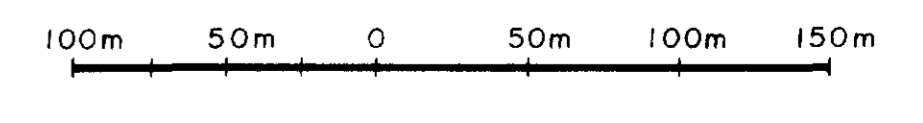
**SYMBOLS**

- Bedding
- Foliation
- Fracture
- Shear
- Zone of shear/fracture
- Geological boundary
- Grid line
- Facing
- Drill hole
- Quartz veining
- Carbonate veining
- Sulphides
- Oxidized sulphides
- Carbonized sulphides
- Cliff
- Photograph locality
- Sample locality
- Claim post, tag numbers
- Stream
- Swamp
- Breccia
- Trench
- Glacial strike

52J/02SE-0087,#2



*T. S. S. 2.6551*



<b>BRESEA RESOURCES LTD.</b>			
SIM'S NARROWS CLAIM GROUP			
STURGEON LAKE, ONTARIO			
PATRICIA MINING DIVISION			
<b>GEOLOGICAL MAP</b>			
Geology by: Mark C. Hansen			
Scale: 1: 2500	Date: August 83.	Fig. no: 4	Drawn by: B.D.S.