RSGM R. Somerville Geological & Mining Engineering Ltd.
1052 Esquimalt Avenue • West Vancouver, B.C. V7T 1J8 • Telephone (604) 922-6955

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A PRELIMINARY GEOCHEMICAL REPORT

on

THE SHAW #1 PROPERTY
SHAW TOWNSHIP
ONTARIO

for

TOTAL ENERGOLD CORPORATION
(AJM METALS LTD)

by

R. Somerville, B.Sc.(hon), P. Eng.

dated December 31, 1988.

2.11829

TABLE OF CONTENTS

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RSGM

APPENDIX I
Analytical Techniques
Geochemical Analysis

APPENDIX II
Geochemical Program Costs

APPENDIX III
Report of Work

Professional Certificate Pocket

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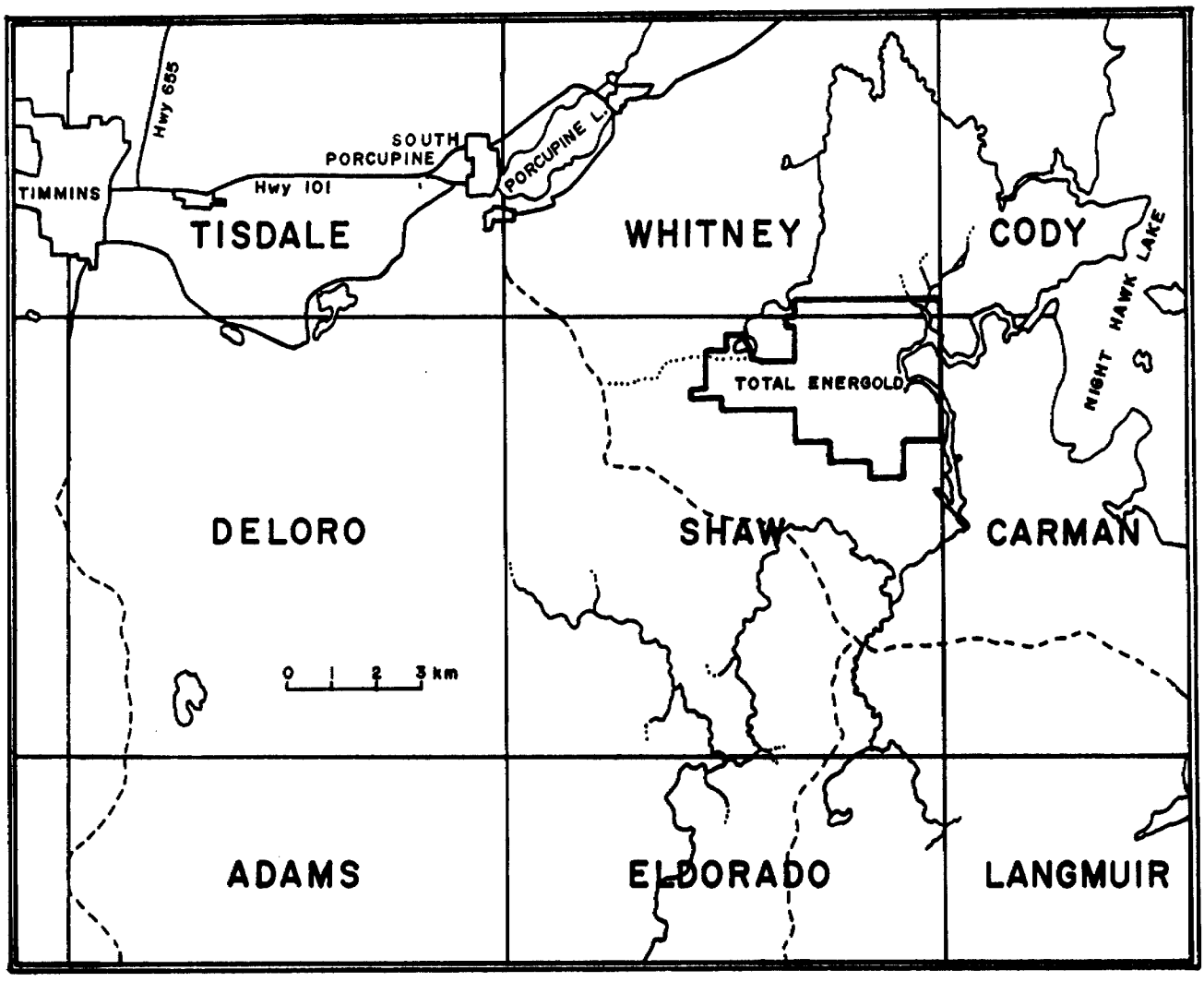
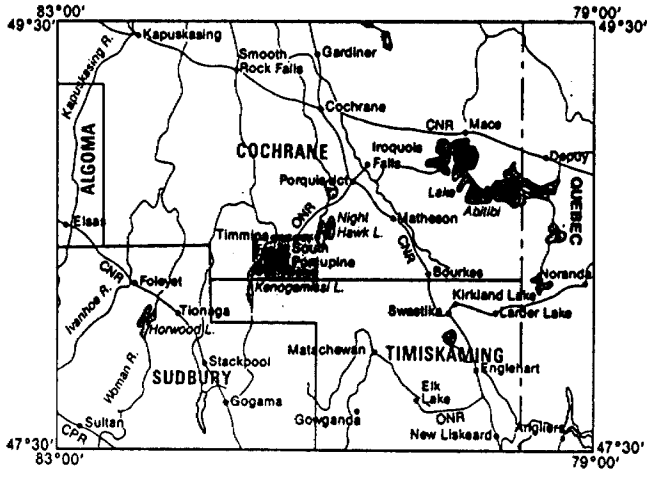
INTRODUCTION

This is a preliminary report on the results of a geochemical survey conducted on two claims. It is a portion of a larger survey involving approximately 1500 samples. The survey was conducted and supervised by personnel from R. Somerville Geological and Mining Engineering Ltd. for a subsidiary company of Total Energold Corporation (AJM Metals Ltd.) who are the registered holders of the claims. Their address is 1500 - 700 West Pender Street, Vancouver, British Columbia, V6C 1G8.





Aeromagnetic reference 293G

N.T.S. reference 42A/6

LOCATION MAP

SHAW #1 Group

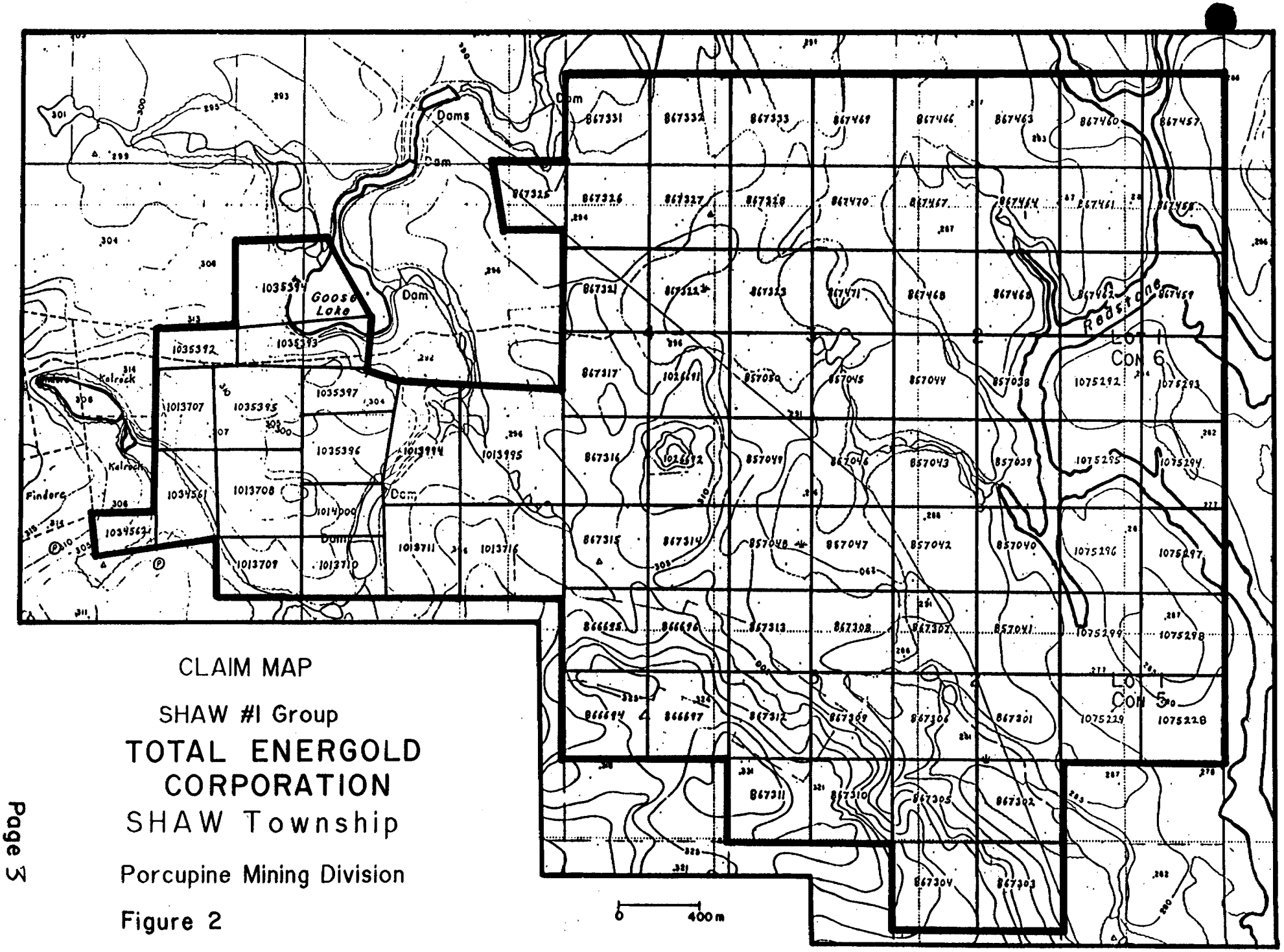
TOTAL ENERGOLD CORPORATION

SHAW Township

Porcupine Mining Division

Ontario

Figure 1



CLAIM MAP

SHAW #1 Group

TOTAL ENERGOLD CORPORATION

SHAW Township

Porcupine Mining Division

Figure 2

PROPERTY, LOCATION AND ACCESS

Total Energold Corporation's Shaw #1 group consists of 88 contiguous unpatented mining claims. These are recorded in the Porcupine Mining Division in the name of AJM Metals Ltd.

The claims are numbered:

P-857038 to P-857050
P-866694 to P-866697
P-867301 to P-867317
P-867325 to P-867328
P-867331 to P-867333
P-867457 to P-867471
P-1013707 to P-1013711
P-1013716
P-1013994 & P-1013995
P-1014000
P-1026691 & P-1026692
P-1-34561 & P-1034562
P-1035392 to P-1035397
P-1075227 & P-1075228
P-1075292 to P-1075299

They form a block covering portions of Lots 1 to 9, Concessions 4, 5 and 6, Shaw Township, and the south quarters of Lots 1, 2, 3 and 4, Concession 1, Whitney Township (see claim map). The geochemical survey was done on claim number P1013707, but the work credits are being claimed for P1026691 in the NE 1/4, S 1/2 of Lot 4, Concession 6, and P1026692 in the SE 1/4, S1/2 of Lot 4, Concession 6 in Shaw Township. All these claims are in a contiguous block as can be seen on Figure 2.

Access to the property is by two rough roads, one heading east from the Langmuir Mine Road, 5km southeast of South Porcupine, and the other heading north from the same road 11 km southeast of South Porcupine.

PHYSIOGRAPHY

The Shaw property is generally flat with a total relief of less than 50 metres. A high area of outcrop in the centre of the property, called Mt. Logano (elevation 325 metres), forms an east-west divide. From here the land gently slopes to the east, reaching an elevation of 281 metres at the Redstone River, and northwest to Goose Lake at an elevation of 290 metres. Drainage is into Goose Lake and the Redstone River.

Vegetation on the poperty consists of 75 percent forest cover, mainly spruce and poplar with some pine, birch, and fir. Of this 15 percent has been clear cut. The remaining 25 percent is covered by bog, alder swamp, and grass.

Approximately 10 percent of the Shaw #1 property is outcrop, nearly all of it in the western third. Overburden is thickest in the east, reaching a depth of 109 metres.

PREVIOUS WORK

Previous work done on the property is summarized below:

1910 - A.G. Burrows studied and mapped the Porcupine Gold Camp, including Shaw Township.

1915 - A.G. Burrows 3rd ed. of this report, including Shaw Township, map 24d.

1924 - A.G. Burrows 4th ed. of his report, including detailed field studies of Whitney Township and the north half of Shaw Township, map 33a.

1938 - M.E. Hurst mapped Shaw and Whitney Townships (1935-1937) and published a geological map (Map 47a)

Erie Canadian also known as Ester Porcupine Gold Mines Ltd., mapped one claim.

1945 - Blackhawk Porcupine Mines Limited drilled two diamond drill holes totalling 1,047' on claim #857040 near the Redstone River.

- Conwest Exploration Company Limited drilled three near the Whitney - Shaw township line between 1945 and 1946.

- Ella Jay Prospecting Syndicate drilled a 873' hole near the Whitney Shaw Township line on claim #867458. This company was later known as Lloyd Gold Mines Ltd.

1946 - Kensull Gold Mines Limited conducted a ground magnetometer survey over 3 claims.

- Belcher drilled two diamond drill holes totalling 1,207' on claim #867305 in Whitney Township.

1947 - Amshaw Porcupine Mines Limited held 3 claims within the Shaw #1 group and between 1962 and 1963 conducted a ground magnetometer survey on the claims.

1966 - Richards drilled 2 daimond drillholes totalling 1,107' on claim #867305.

1967 - H.D. Carlson mapped and produced an open file report (5012) based on field work done in Shaw Township (1964 to 1965)

1969 - Dillon investigated the area from 1961 to 1969. In 1969 they drilled 9 diamond-drill holes, one on claim #1013994 and 8 on claim #1013716, for a total of 1,434'.

1971 - Hollinger Mines Limited explored 20 claims in the area by ground magnetometer.

- Economic Mineral Investigations Limited carried out a geological survey of 5 claims and an electromagnetic survey on one of these.

1974 - Pac Exploration mapped the geology and conducted a ground magnetometer survey over 16 claims, and resistivity and induced polarity surveys over 2 of these.

1980 - Hollinger-Argus Mines Limited explored 16 claims by means of ground magnetometer and VLF.

- Rosario Resources Ltd. conducted geological, ground magnetometer, and electromagnetic surveys on 30 claims. They also drilled a 598' diamond-drill hole on claim #1013995 to investigate a carbonate alteration zone.

1987 - Chevron investigated the area in 1986 and 1987. A ground electromagnetic survey was carried out on 13 claims, overburden sampling on 10 claims, and trenching on claims #867315 and #866696.

For more detail see Appendix A, Table 1.

GENERAL GEOLOGY

The description of the geology is partially excerpted from a report on the property by R. Mielke dated December 31, 1988. This report will be filed shortly with the Mining Recorder for assessment work. The Timmins district is underlain by volcanic, sedimentary, and intrusive rocks of the Abitibi greenstone belt. For a summary of the geology of the Abitibi greenstone belt, the reader is referred to Goodwin and Ridler (1970, 1977), Pyke (1980), and Jensen and Langford (1983).

The geology and stratigraphy of the Timmins district (Figure 3), has been recently described by Pyke (1982), and the following description is taken largely from his work.

Stratigraphy

Pyke divided the Archean volcanic and sedimentary rocks of the district into three groups, the Deloro, Tisdale, and Porcupine Groups. The volcanic rocks are divided into the Deloro and Tisdale Groups, and the sedimentary rocks are assigned to the Porcupine Group (Figure 4).

The two vocanic groups are cut by a major east-west fault, the Destor-Porcupine fault. South of this fault, the rocks of the Deloro Group (the older group) occupy the Shaw Dome, and north of the fault rocks of the Tisdale Group form a series of

anticlines and synclines trending northeast-southwest and northwest-southeast. Major blocks of the Tisdale Group reappear south of the Destor-Porcupine fault around the flanks of the Shaw Dome, apparently unconformably overlying the older Deloro Group.

The sedimentary rocks of the Porcupine Group occur in close proximity to the Destor-Porcupine fault and within folded sequences in the northwest part of the district. According to Pyke, these sedimentary rocks are time equivalent with the upper volcanic rocks of the Deloro Group and the entire sequence of the Tisdale Group.

The sequence of metavolcanic rocks that constitute the Deloro and Tisdale Groups is subdivided into six formations. Formations I to III fall within the Deloro Group, and Formations IV to VI the Tisdale Group.

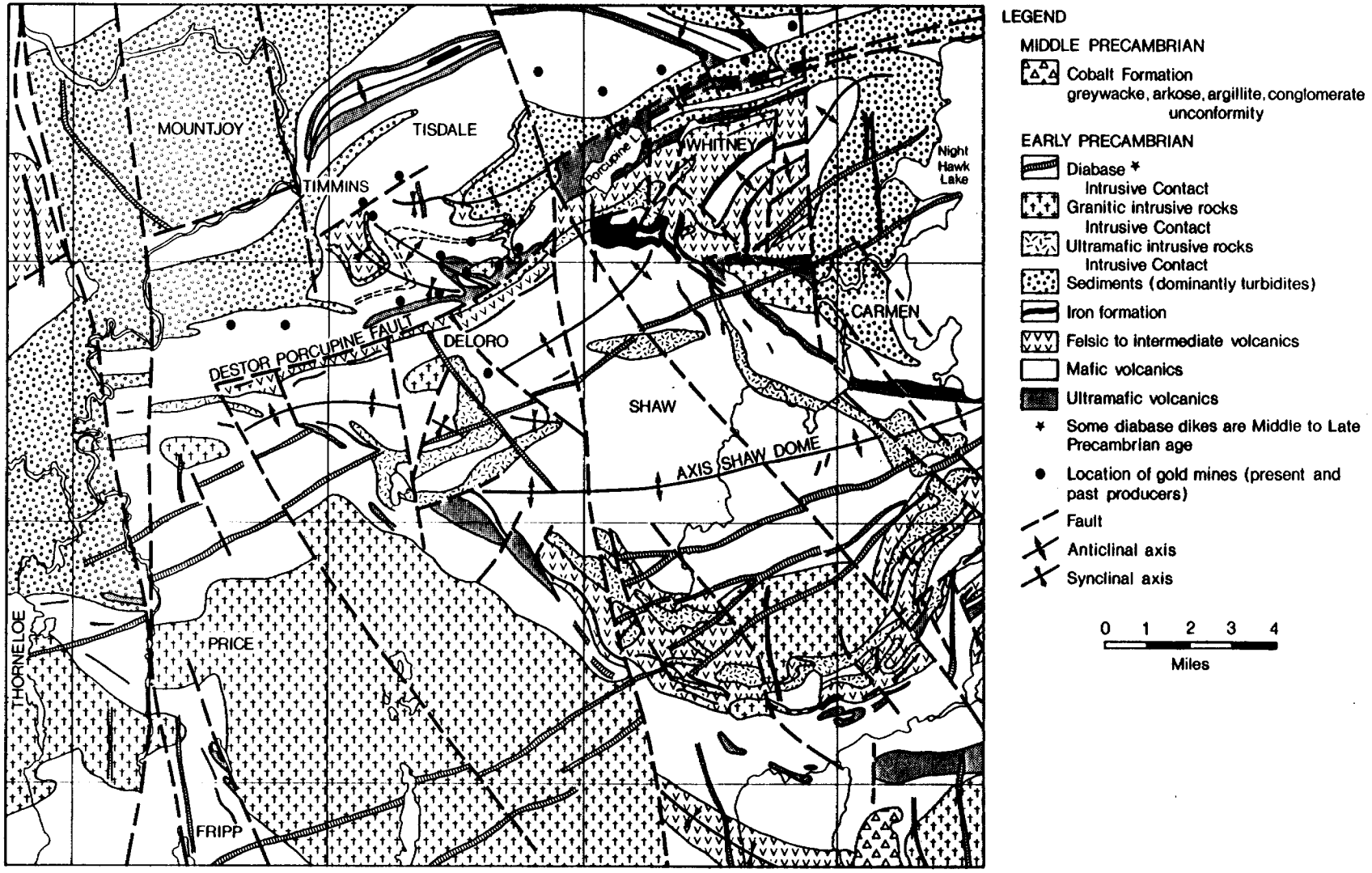


Figure 3 – Geology of the Timmins district (after Pyke 82)

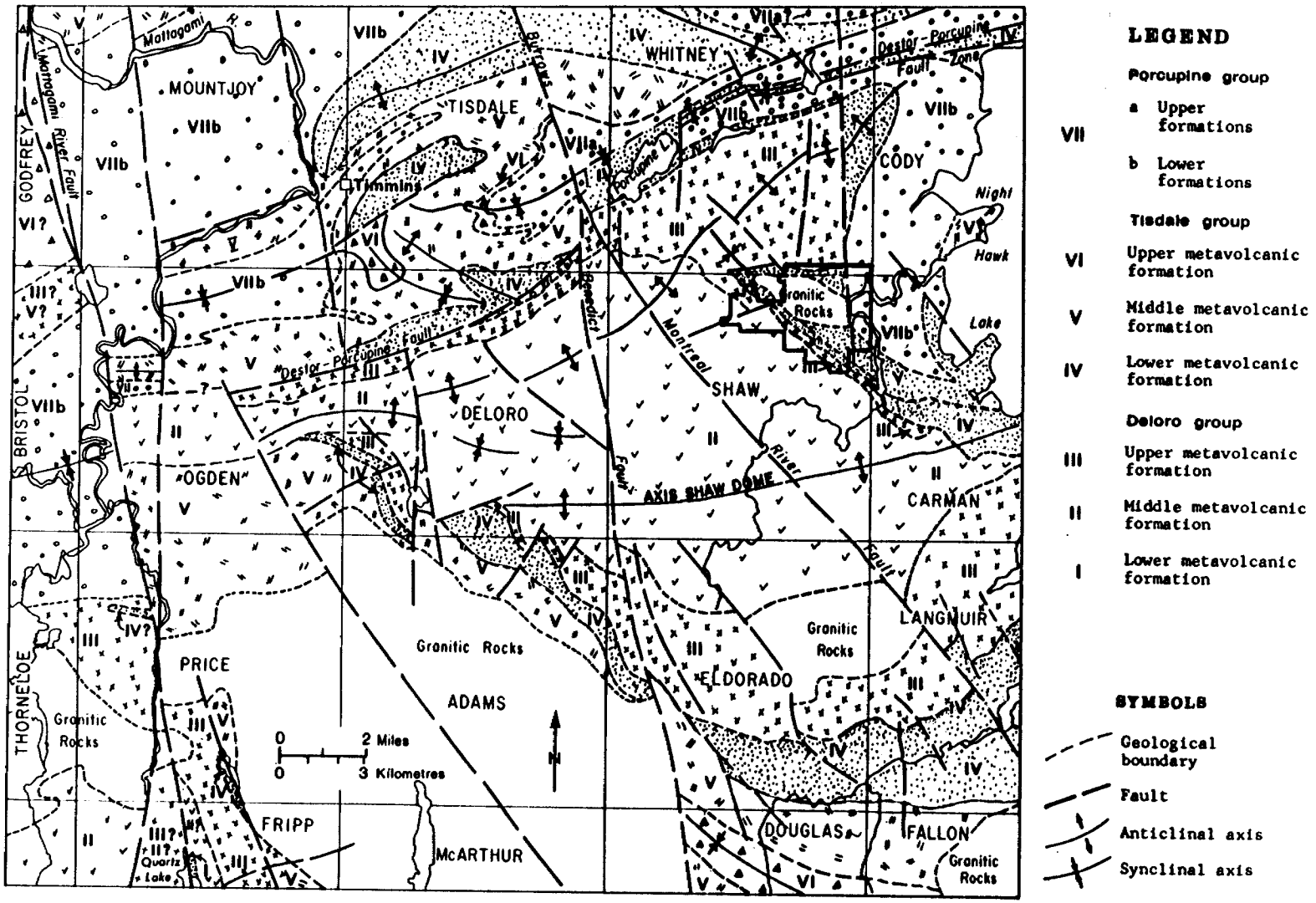


Figure 4 – Stratigraphic map of the Timmins district (after Pyke 82)

Intrusive Igneous Rocks

Large sill-like bodies of dunite and peridotite were emplaced into the upper formation of the Deloro Group in the vicinity of the Shaw Dome. Pyke (1982) suggests that these may have acted as feeders or reservoirs for the ultramafic rocks at the base of the Tisdale Group.

Numerous felsic stocks outcrop in the southern part of the district. These include a small felsic quartz porphyry stock which underlies much of Mt. Logano.

Many small quartz-feldsapar porphyry intrusions of probable subvolcanic origin occur within the metavolcanic rocks of the Tisdale Township. Some of these intrusive bodies contain gold-bearing quartz veins.

The volcanic and sedimentary rocks of the area are traversed by a series of north and northeast-trending diabase dykes. At least three ages of diabase intrusive activity have been established (Pyke 1982).

North-trending dykes (approximately 2480 Ma) cut the granitic rocks associated with the Kenoran orogeny and are unconformably overlain by Proterozoic sedimentary rocks.
North-northeast-trending diabase sills (2170 Ma), and east-northeast or northwest-trending diabase dykes (1230 Ma) intrude both the Archean and Proterozoic rocks.

Structural Geology

Two structural domains, separated by the Destor-Porcupine fault, are recognized in the district (Pyke 1982). The Shaw Dome, underlain by rocks of the Deloro Group, occurs to the south of the fault. North of the fault the rocks of the Tisdale Group have been folded into a sequence of anticlines and synclines. Basal rocks of the Tisdale Group are also found on the flank of the Shaw Dome south of the Porcupine-Destor fault.

The axis of the Shaw Dome trends east-west across the southern part of Shaw Township. The origin of this domal structure is probably the result of the diapiric effect of an underlying granitic body. Middleton (1976) inferred the existence of such a body from a negative Bouguer anomaly coincident with the Dome.

Metamorphism

The Archean rocks of the Timmins district have been subjected to greenschist facies metamorphism. A strong mineral foliation, defined by the preferred orientation of sericite and chlorite, is locally developed throughout the area. For the most part however, original textures are preserved in sedimentary and volcanic rocks.

GEOLOGY OF THE PROPERTY

Summary

The Shaw #1 Property is situated between a northeast-trending anticlinal structure to the north, and an east-trending linear dome called the Shaw Dome to the south (Figure 4).

The Shaw Dome is underlain by mafic calc-alkalic volcanics of the Deloro Group, Formation II, and the northern anticline is predominantly iron formation bearing felsic calc-alkalic volcanics, Formation III (Pyke 1982). The upper part of the Shaw Dome volcanics also contain iron formations, some of which are exposed in the southern part of the property.

The central and eastern part of the property is underlain by komatiitic and tholeiitic volcanic rocks of the Tisdale Group (Formation IV and V). These form a small southwest-plunging syncline which is intruded by quartz porphyry. This porphyry forms a large body in the centre of the property which is known as the Mt. Logano porphyry (Figure 6).

All of these rocks are cut by later intrusives. A large east-trending, differentiated, diabase dyke cuts across the centre of the property; and a large gabbro body exists in the extreme south. Several other smaller intrusives have also been noted. Among these are narrow north-trending diabase dykes, small gabbro plugs and dykes, and mafic intrusives.

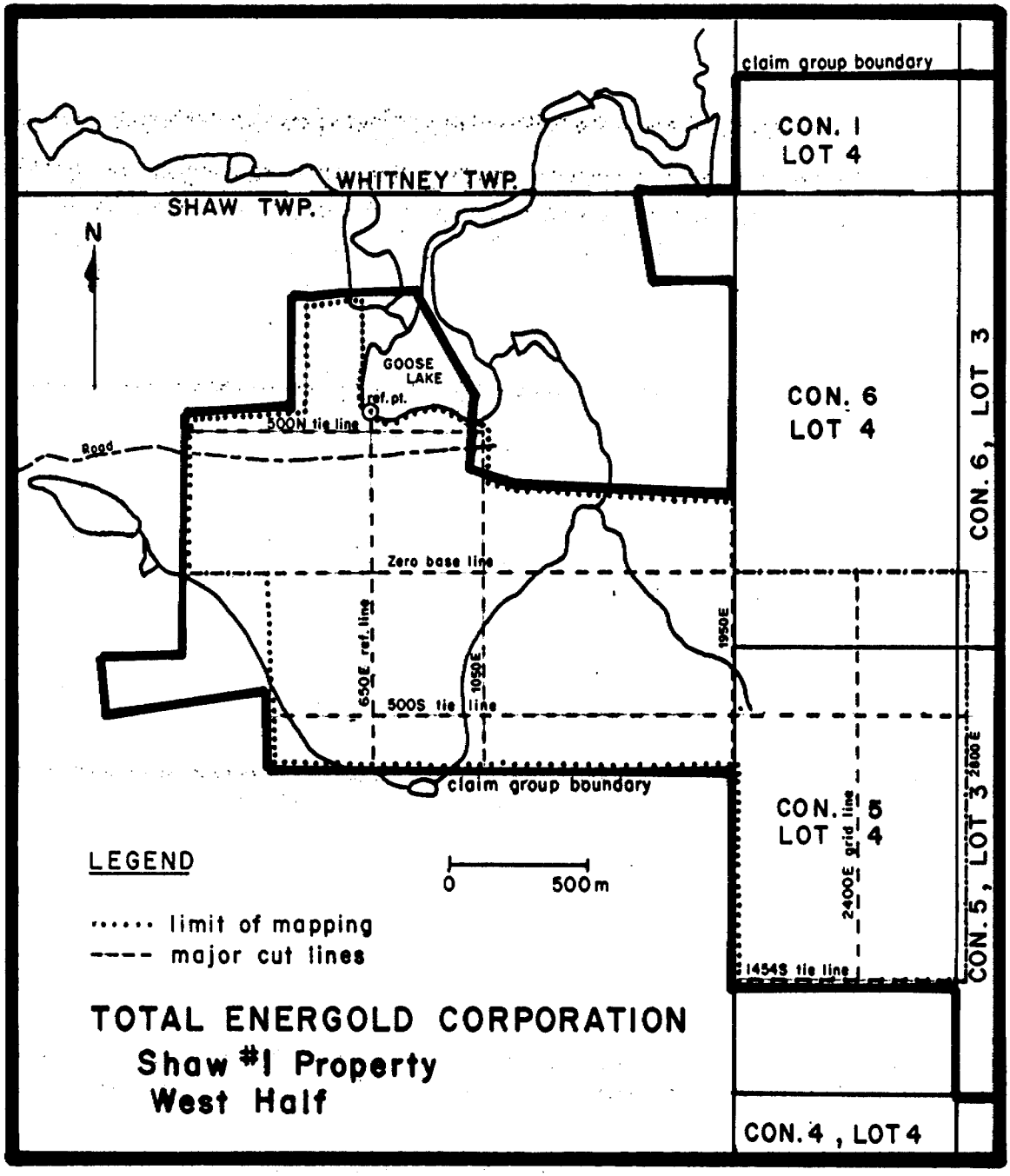


Figure 5 - Area covered by geological survey, 1988

Sedimentary rocks are thought to occur in the extreme eastern part of the property (Pyke 1982, map 2455), but the extent of these is currently unknown.

SURVEY, SAMPLING AND ANALYTICAL METHODS

A grid Reference Point called 650E, 575N was established on the south shore of Goose Lake (Figure 5). This point was accurately located by triangulating three points on Goose Lake. From this station, an azimuth was established and a line was cut south, and at 575 meters along the north-south line a 2800 metre E-W zero baseline was established.

From this zero baseline, lines were cut north and south at 50 metre intervals from OE to 1950E, and south at 100 metre intervals from 2000E to 2800E.

Lines 0E to 1050E are tied together in the north by a 500N tie line and in the south by a 500S tie line. Lines 1100E to 2800E are connected by a tie line at 500S, and lines 2000E to 2800E end at a tie line at 1454S.

A geological survey was carried out by first locating all rock outcrops relative to the grid. Outcrop outlines were then extablished by pacing and chaining at right angles from the grid lines, and by compass and pacing.

Plugger holes 1 7/8 inches in diameter were drilled on the outcrop areas. An over-all attempt was made to obtain samples at 20 metre intervals on the lines, which are 50 metres apart.

Obviously, the outcrop areas are not complete enough to obtain a consistently regular sample density.

In order to eliminate the problem of varying chemistry owing to weathering, the plugger hole was drilled for about six inches before any sample material was collected. The area around the drill hole was cleaned, and then drilled to about a one metre depth. The plugger dust that was blown out of the hole was subsequently collected and bagged in a plastic bag, and carefully marked with a location number. A hole drilled about 0.75 to 1.0 metre yields about 0.4 kg of rock dust.

The samples were delivered to Min-En Laboratories in Timmins, Ontario, where a 250 gm sample was separated and sent to their laboratories in North Vancouver for analysis. The analysis for gold was done by the fire assay technique with an AA finish as detailed on the Analytical Technique sheets in Part 1 of the Appendix.

The sample was also analysed by the ICP method for silver, arsenic, boron, barium, bismuth, copper, lithium, molybdenum, lead, antimony, zinc and chromium. This sample analytical technique is also detailed in Part 1 of the Appendix. Of the 53 samples taken from the claim, 50 samples were taken on the claim #P1013707 during the week of September 10 to 17, 1988. On average, 35 samples per day were taken by the crew. The analysis for these samples was completed on October 4 and 6, 1988 (see Appendix II).

Results of Survey

The 50 samples collected in claim #1013707 and analysed prior to October 6, 1988 and their analytical results are as follows:

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
G-261	.9	36	6	3	15	11	24	5	26	17	59	161	3
G-262	1.0	34	6	16	15	8	24	4	24	18	64	163	1
G-263	.9	31	6	16	16	7	24	5	18	19	59	156	1
G-264	.5	21	6	23	6	7	32	3	20	16	65	146	42
G-265	.8	31	5	17	11	10	27	2	17	17	65	165	3
G-266	.8	39	5	21	11	17	28	4	23	18	56	156	2
G-267	1.0	26	4	1	14	9	24	3	22	17	61	175	6
G-268	.4	22	5	17	6	8	32	3	20	17	58	161	2
G-269	.4	26	5	6	6	9	31	5	22	15	61	149	2
G-270	.3	22	5	20	5	10	23	4	24	16	54	156	1
G-271	.7	32	5	1	15	6	31	4	30	17	55	145	2
G-272	.5	18	6	27	6	6	31	3	17	16	51	165	5
G-273	.9	23	5	12	13	8	32	4	17	18	65	166	9
G-274	.8	23	5	9	11	7	31	2	20	16	51	161	3
G-275	.7	22	5	15	10	17	31	3	21	16	61	148	2
G-276	1.0	34	5	33	15	10	25	4	24	19	67	149	2
G-277	1.1	36	6	33	16	7	26	3	20	19	72	168	1
G-278	1.0	31	5	16	15	15	27	3	29	18	75	156	2
G-279	1.0	34	6	26	15	6	28	4	22	16	56	129	4
G-228	1.6	103	4	1	8	37	13	3	13	8	63	1145	4
G-229	.9	32	3	19	5	63	21	4	26	1	87	178	2
G-230	.9	34	3	12	6	20	30	4	29	3	69	196	3
G-231	1.2	33	2	25	6	7	13	3	21	1	35	245	2
G-232	1.2	27	2	18	4	7	20	5	23	1	24	193	1
G-233	1.1	32	2	21	4	8	15	4	19	1	28	147	3
G-234	.9	20	3	33	5	8	14	3	23	1	54	104	2
G-235	2.9	53	1	8	8	8	5	6	25	5	23	77	3
G-236	1.1	36	3	21	5	8	25	3	19	1	48	282	2
G-237	.9	33	2	17	5	8	24	4	20	1	43	236	3
G-238	1.0	35	3	42	6	7	18	3	16	2	41	218	1
G-239	1.0	40	3	26	5	9	18	4	19	1	39	246	2
G-240	.9	24	3	45	5	7	17	3	24	1	34	165	3
G-241	.8	38	4	30	5	9	18	4	21	2	29	164	2
G-242	1.1	41	3	23	5	37	15	2	18	1	50	190	2
G-243	2.2	32	3	15	14	10	25	4	22	4	68	227	3
G-244	1.9	33	3	17	14	9	28	3	27	2	68	184	1
G-245	1.0	35	4	11	6	26	29	3	18	2	59	183	2
G-246	1.1	28	4	20	5	8	28	3	14	1	70	243	1
G-247	.9	24	3	14	5	7	26	3	16	1	57	210	1
G-248	.9	22	2	13	4	8	19	4	13	1	42	182	2
G-249	1.0	38	3	17	5	64	27	3	18	1	32	231	3
G-250	.9	19	2	9	4	8	18	3	15	1	20	148	2

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
G-252	1.2	38	3	10	6	46	29	3	20	1	43	210	2
G-253	1.0	21	2	2	5	8	17	4	22	1	38	194	3
G-255	1.2	144	2	1	6	16	7	3	20	4	50	1706	1
G-256	1.7	48	6	15	6	9	33	3	32	8	73	200	1
G-257	1.2	37	4	4	7	7	27	3	24	6	33	181	2
G-258	1.7	79	2	3	6	8	6	1	9	3	26	951	33
G-259	1.5	79	1	1	6	8	5	1	7	3	26	861	2
G-260	1.6	91	1	116	6	8	5	1	8	2	25	991	1

Discussion of Results

Samples # G255, G258, G259, and G260 were taken from outcrops of a strongly carbonatized rock (listwanite) of unknown origin (see Map # A13 in the pocket, "Geological Survey"). The remaining 46 samples were taken from outcrops of a massive mafic volcanic flow.

Carbonatized Rock Samples (Listwanite)

The four listwanite samples obviously form a different geochemical population than do the other 46 samples.

The chromium content of the samples ranges from 861 ppm to 1706, almost an order different from the samples taken from the mafic volcanics. This, of course, is explainable as listwanite is probably derived from a chromium-rich ultramafic. The carbonate alteration of the listwanite has been theorized to be caused by a number of geological processes, among them hydrothermal activity connected with the emplacement of gold veins. The four samples in question have abnormally high arsenic values ranging from 79 ppm to 144 ppm, the highest barium value in all the samples (obviously anomalous) - 116 ppm and the highest gold value - 33 ppb.

Mafic Volcanic Rock Samples

The forty-six samples taken from the mafic rock outcrops are only surprising in their uniformity with very few even mildly anomalous values. One sample (G 228) recorded a high arsenic value (103) and a very high chromium result (1145). These results are so dramatically similar to the four samples taken from the carbonatized rock that a further examination in the field might reveal that the outcrop sampled was incorrectly mapped, or that it lies adjacent to a contact with listwanite.

Samples 235 and 243 returned values mildly higher in silver than the background, but these did not correlate with other elements to suggest an anomalous area.

None of the other samples visually suggest any anomalous pattern and neither the results from, nor the numbers of the samples in the two populations lend themselves to effective statistical interpretation.

At a later date, a more detailed geo-statistical study will be completed on the property as a whole, involving more than 1200 samples of which the fifty samples reported here form a small part.

CONCLUSIONS

The carbonatized rock is obviously more highly mineralized and altered than the mafic rock, and contains one mildly anomalous gold value (sample #258).

APPENDIX I

ANALYTICAL TECHNIQUES

GEOCHEMICAL ANALYSIS

PHONE: (604) 980-5814 or 988-4524

TELEX: 04-352828

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

FIRE GOLD GEOCHEMICAL ANALYSIS BY MIN-EN LABORATORIES LTD.

Geochemical samples for Fire Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 15.00 or 30.00 grams are fire assay preconcentrated.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 1 ppb.

PHONE: (604) 980-5814 or 988-4524

TELEX: 04-352828

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

Analytical Procedure Report for Assessment Work

31 Element ICP

Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cu, Fe, K, Li, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, U, V, Zn, Ga, Sn, W, Cr

Samples are processed by Min-En Laboratories Ltd., at 705 West 15th Street, North Vancouver, employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer or ring mill pulverizer.

1.0 gram of the sample is digested for 4 hours with an aqua regia $HClO_4$ mixture.

After cooling samples are diluted to standard volume. The solutions are analysed by computer operated Jarrall Ash 9000 ICAP or Jobin Yvon 70 Type II Inductively Coupled Plasma Spectrometers. Reports are formatted and printed using a dot-matrix printer.

[illegible] R.SOMMERVILLE GEOLOGIC[illegible] MIN-EN LABS ICP REPORT (ACT:F31) PAGE 1 OF 1

[illegible]JECT NO: TIMMINS-SHAW 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 82-1345/P1+2

ATTENTION: R.SOMMERVILLE/H.TITTLEY (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:OCTOBER 4, 1988

(V[illegible]S IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-076-A	1.1	32	5	1	3	9	6	3	19	1	25	98	742
6-076-B	.9	9	4	3	3	9	6	2	2	1	29	82	341
6-228	1.6	103	4	1	8	37	13	3	13	8	63	1145	4
6-229	.9	32	3	19	5	63	21	4	26	1	87	178	2
6-230	.9	34	3	12	6	20	30	4	29	3	69	196	3
6-231	1.2	33	2	25	6	7	13	3	21	1	35	245	2
6-232	1.2	27	2	18	4	7	20	5	23	1	24	193	1
6-233	1.1	32	2	21	4	8	15	4	19	1	28	147	3
6-234	.9	20	3	33	5	8	14	3	23	1	54	104	2
6-235	2.9	53	1	8	8	8	5	6	25	5	23	77	3
6-236	1.1	36	3	21	5	8	25	3	19	1	48	282	2
6-237	.9	33	2	17	5	8	24	4	20	1	43	236	3
6-238	1.0	35	3	42	6	7	18	3	16	2	41	218	1
6-239	1.0	40	3	26	5	9	18	4	19	1	39	246	2
6-240	.9	24	3	43	5	7	17	3	24	1	34	165	3
6-241	.8	36	4	30	5	9	18	4	21	2	29	164	2
6-242	1.1	41	3	23	5	37	15	2	18	1	50	190	2
6-243	2.2	32	3	15	14	10	25	4	22	4	68	227	3
6-244	1.9	33	3	17	14	9	28	3	27	2	68	184	1
6-245	1.0	35	4	11	6	26	29	3	18	2	59	183	2
6-246	1.1	28	4	20	5	8	28	3	14	1	70	243	1
6-247	.9	24	3	14	5	7	26	3	16	1	57	210	1
6-248	.9	22	2	13	4	8	19	4	13	1	42	182	2
6-249	1.0	38	3	17	5	64	27	3	18	1	32	231	3
6-250	.9	19	2	9	4	8	18	3	15	1	20	148	2
6-251	.7	28	4	10	6	10	28	3	26	4	67	190	2
6-252	1.2	38	3	10	6	46	29	3	20	1	43	210	2
6-253	1.0	21	2	2	5	8	17	4	22	1	35	194	3
6-254	.4	19	3	4	5	7	21	3	23	2	64	103	2
6-255	1.2	144	2	1	6	16	7	3	20	4	50	1706	1
6-256	1.7	48	6	15	6	9	33	3	32	8	73	200	1
6-257	1.2	37	4	4	7	7	27	3	24	6	33	181	2
6-258	1.7	79	2	3	6	8	6	1	9	3	26	951	33
6-259	1.5	79	1	1	6	8	5	1	7	3	26	861	2
6-260	1.6	91	1	116	6	8	5	1	8	2	25	991	1
6-348	1.1	40	1	23	5	7	31	4	27	1	67	136	3
6-349	1.0	32	2	14	5	9	32	3	25	1	29	131	2
6-350	1.1	39	1	9	4	8	35	4	22	1	29	148	1
6-351	1.0	33	2	15	4	7	28	4	25	1	35	115	3
6-352	1.0	32	2	17	6	8	28	3	28	1	37	112	1
6-353	1.1	27	2	29	5	21	11	4	19	1	31	100	1
6-354	.9	26	1	19	4	7	20	3	24	1	35	122	2
6-355	1.1	32	2	22	5	8	30	4	24	1	39	125	3
6-356	1.0	35	2	32	4	7	16	4	20	1	36	255	2
6-357	1.0	56	4	4	5	73	52	3	29	2	164	126	1
6-358	.6	4	1	2	4	56	5	1	7	1	23	77	2
6-359	.3	7	2	4	2	8	3	1	22	6	12	139	3
6-360	.9	13	4	5	4	8	9	1	28	1	33	95	1
6-361	.4	1	1	1	2	9	2	1	15	1	19	173	1
6-362	1.1	35	1	13	4	8	26	4	23	1	31	161	3
6-363	.4	25	1	2	2	10	2	2	12	1	14	104	2
6-364	.9	9	1	1	6	787	2	2	20	1	20	59	2
6-365	.4	1	1	2	3	8	2	1	9	1	22	43	3
6-366	.4	30	2	3	3	76	2	2	6	1	15	91	19
6-367	.5	36	5	2	3	13	2	2	9	1	41	67	2
6-368	.8	39	2	33	5	54	22	1	22	1	55	250	1
6-369	.4	36	1	1	1	9	2	2	13	1	19	121	37
6-370	.6	1	1	1	3	112	2	1	16	1	25	53	100
6-371	.6	9	3	6	3	9	2	1	6	1	27	46	4
6-372	.4	1	1	1	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

COMPANY: SOMMERVILLE GEOLOGICA
PROJECT NO: TIMMINS-SHAW
ATTENTION: R.SOMMERVILLE/H.Z.TITTLEY

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
FILE NO: 82-1366/P1+2
* TYPE ROCK GEOCHEM * DATE:OCT 6, 1988

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
G-261	.9	36	6	3	15	11	24	5	26	17	59	161	3
G-262	1.0	34	6	16	15	8	24	4	24	18	64	163	1
G-263	.9	31	6	16	16	7	24	5	18	19	59	156	1
G-264	.5	21	6	23	6	7	32	3	20	16	65	146	42
G-265	.8	31	5	17	11	10	27	2	17	17	65	165	3
G-266	.8	39	5	21	11	17	28	4	23	18	56	156	2
G-267	1.0	26	4	1	14	9	24	3	22	17	61	175	6
G-268	.4	22	5	17	6	8	32	3	20	17	58	161	2
G-269	.4	26	5	6	6	9	31	5	22	15	61	149	2
G-270	.3	22	5	20	5	10	23	4	24	16	54	156	1
G-271	.7	32	5	1	15	6	31	4	30	17	55	145	2
G-272	.5	18	6	27	6	6	31	3	17	16	51	165	5
G-273	.9	23	5	12	13	8	32	4	17	18	65	166	9
G-274	.8	23	5	9	11	7	31	2	20	16	51	161	3
G-275	.7	22	5	15	10	17	31	3	21	16	61	148	2
G-276	1.0	34	5	33	15	10	25	4	24	19	67	149	2
G-277	1.1	36	6	33	16	7	26	3	20	19	72	168	1
G-278	1.0	31	5	16	15	15	27	3	29	18	75	156	2
G-279	1.0	34	6	26	15	6	28	4	22	16	56	129	4
G-280	1.1	21	6	31	16	6	33	2	18	18	73	106	21
G-281	1.1	47	5	82	14	7	24	6	26	18	47	159	4
G-282	.9	51	8	82	13	6	33	5	22	22	54	149	2
G-283	1.0	58	8	92	13	17	28	5	20	23	49	158	1
G-382	.6	16	5	5	6	10	37	3	16	17	89	99	4
G-383	1.3	12	4	12	21	9	22	3	23	14	84	110	3
G-384	.1	42	4	4	1	11	11	2	5	14	18	104	2
G-385	.5	7	6	1	6	12	33	2	24	18	107	129	2
G-386	.5	9	5	2	6	12	29	3	14	15	106	123	1
G-387	.2	6	5	3	7	9	24	4	25	14	86	53	1
G-388	.6	22	5	6	5	10	38	2	22	18	96	111	2
G-389	.4	2	6	1	5	7	44	3	22	18	95	120	1
G-390	.3	40	5	1	7	8	16	1	19	11	39	82	2
G-391	.1	30	5	1	5	9	13	1	20	11	102	71	2
G-392	.4	13	5	16	6	9	36	3	20	18	80	109	1
G-393	.4	8	5	20	6	7	31	3	18	16	93	98	3
G-394	1.2	24	5	1	19	12	27	3	20	17	98	125	1
G-395	.4	6	5	6	7	7	29	2	17	15	81	101	1
G-396	.5	12	6	18	6	12	34	4	19	18	98	107	4
G-397	.5	3	5	30	9	9	28	4	19	17	89	94	2
G-398	.4	7	7	25	7	7	30	2	20	17	110	117	3
G-399	.5	10	5	2	7	7	25	2	15	14	110	133	2
G-400	1.1	18	6	3	17	6	30	4	30	19	96	129	2
G-401	1.0	32	4	19	14	10	26	3	23	19	57	152	3
G-402	.1	4	3	1	1	7	8	1	6	2	20	63	1
G-403	1.0	33	4	31	13	9	24	5	27	17	59	144	2
G-404	1.3	13	5	2	21	12	28	3	20	16	104	130	2
G-405	.5	13	7	14	5	10	46	3	16	19	92	109	3

APPENDIX II

GEOCHEMICAL PROGRAM COST

GEOCHEMICAL PROGRAM COST

On average, 35 samples per day were taken by the crew.

Collection Cost

Crew working time	5 days	
Cost of collecting	$3,370.50	
Cost per day $3370.50/5	674.10	
Cost per sample $\frac{\$674.10}{35}$		19.26 per sample

Analysis Cost

As detailed on attached invoices

sample bags	$ 0.26	
12 element trace ICP analysis.....	6.00	per sample
gold fire rock geochemical analysis	7.25	per sample
sample preparation	3.00	per sample
	$ 16.51	per sample

APPLICABLE ASSESSMENT CREDIT

Analysis

50 samples X $16.25	$ 825.50	
or $825.50/15	55 days	

Plugger Crew

8 hrs. X 60 minutes) /35 samples per day
..... 13.7 min. per sample

2 crew members X 50 samples X $\frac{13.7}{60}$
..... 22.8 hrs.

or 7 days assessment work credit

LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7601067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

P.O. BOX 280,
PORCUPINE, ONT.
P0N 1C0.

INVOICE No 11059C
PAGE : 1 OF 1
DATE :Sep 30/88

ACCOUNT:10999

ATTENTION: R.SOMERVILLE/H.TITTLEY FILE No: 82-1366
PROJECT: TIMMINS SHAW

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
47	ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	282.00
47	ROCK GEOCHEM - AU FIRE	7.25	340.75
47	ROCK SAMPLE PREP	3.00	141.00
		SUBTOTAL	763.75
2	PAGES FAXED VANCOUVER	0.50	1.00
2	PAGES FAXED PORCUPINE,ONT.	0.50	1.00
	LONG DISTANCE CALL	7.50	7.50
		* TOTAL *	773.25

HESE ARE PROFESSIONAL SERVICES AND ARE PAYABLE WHEN RENDERED.
JTSTANDING BALANCES OVER 30 DAYS WILL BE CHARGED 2% INTEREST/MONTH.

Please Pay

LABORATORIES LTD.

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
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TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

P.O. BOX 280,
PORCUPINE, ONT.
P0N 1C0.

INVOICE No 11039C
PAGE : 1 OF 1
DATE :Sep 30/88

ACCOUNT:10999

ATTENTION: R.SOMERVILLE/H.TITTLEY FILE No: 82-1345
PROJECT: TIMMINS SHAW

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
69	ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	414.00
69	ROCK GEOCHEM - AU FIRE	7.25	500.25
69	ROCK SAMPLE PREP	3.00	207.00
		SUBTOTAL	1121.25
3	PAGES FAXED VANCOUVER	0.50	1.50
3	PAGES FAXED PORCUPINE ONT	0.50	1.50
	LONG DISTANCE CALL	7.50	7.50
		* TOTAL *	1131.75

THESE ARE PROFESSIONAL SERVICES AND ARE PAYABLE WHEN RENDERED.
OUTSTANDING BALANCES OVER 30 DAYS WILL BE CHARGED 2% INTEREST/MONTH.

Please pay

INVOICE

MIN-EN LABORATORIES LTD.
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

PHONE: (604)980-5814 OR 988-4524
TELEX: VIA USA 7601067 FAX: (604)980-9621

INVOICE No 8503C
PAGE : 1 OF 1
DATE : Apr 15/88

TO : SOMERVILLE GEOLOGICAL & MINING
1052 ESQUIMALT AVE..

WEST VANCOUVER. B.C.
V7T 1J8

FILE No:
PROJECT:

ACCOUNT: 10999

ATTENTION: RICK SOMERVILLE

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
1200	PLASTIC BAGS 12X18	0.23	276.00
12	BOOKS 2 PART CORE TAGS	3.00	36.00
	1250 TWIST TIES	0.00	0.00
	SHIPMENT NOTICE PADS	0.00	0.00
		* TOTAL *	312.00

THESE ARE PROFESSIONAL SERVICES AND ARE PAYABLE WHEN RENDERED.
OUTSTANDING BALANCES OVER 30 DAYS WILL BE CHARGED 2% INTEREST/MONTH.

969

CANADIAN IMPERIAL
BANK OF COMMERCE
LONSDALE & 1ST BRANCH
NORTH VANCOUVER, B.C.

PAY TO THE ORDER OF

Apr 18 1988

MIN-EN LABORATORIES | $ 312 00/00

Three hundred and twelve 00/00 DOLLARS

R SOMERVILLE GEOLOGICAL & MINING ENGINEERING LTD.

RE. # 8503C

Christine Somerville

"074" :09010=0101: 85=01319"

HALO EXPLORATIONS
GENERAL DELIVERY
CONNAUGHT, ONTARIO P0M 1A0

L SALO
(705) 363-2108

INVOICE #

To Herman Pittley

ATTENTION

TAKING ( ) LINECUTTING ( ) ASSESSMENT WORK ( ) PRICE PER

TOWNSHIP SHAW re: Plugger work Work Week Sept 10-17

Man days 20 days @ 150		3000
Plugger 5 1/2 days @ 55		302 50
A.T.V. 2 days @ 25		50
Gas + oil		18

TOTAL $ 3370 50
2800
$ 570 50

Sept 10+12 Larry Salo 3
Sept 10-17 incl Guy Hebert 8
Sept 12-16 incl Dave Recoski 5
Sept 17 Richard Roy. 1
Sept 14-17 incl Barron Bouchard 4
29 days @ $100

Paid by cheque #83 Sept 27, '88

APPENDIX III

REPORT OF WORK

Ministry of Northern Development and Mines
Ontario

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

Mining Act

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." column. Do not use shaded areas below.

Type of Survey(s): GEOCHEMICAL (SAMPLING)
Township or Area: SHAW TOWNSHIP
Claim Holder(s): AJM METALS LTD.
Prospector's Licence No.: T-4857
Address: Suite 500 – 171 West Esplanade St N. Vancouver B.C V7M
Survey Company: R. Somerville Geol. & Mining Eng Ltd.
Date of Survey (from & to): 27 09 88 (Day | Mo. | Yr.) — 05 10 88 (Day | Mo. | Yr.)
Total Miles of line Cut:
Name and Address of Author (of Geo-Technical report): R. D. Somerville 1052 Esquimalt Ave W. Vancouver B.C V7T

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical	
	· Electromagnetic	
	· Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	· Radiometric	
	· Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side	Geophysical	
	· Electromagnetic	
	· Magnetometer	
	· Radiometric	
	· Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED
OCT 5 1988
PORCUPINE MINING DIVISION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	1026691	20
P	1026692	20

Mining Claim Prefix	Mining Claim Number	Expend. Days

Total number of mining claims covered by this report of work: 2

Expenditures (excludes power stripping)

Type of Work Performed: Geochemical Sampling
Performed on Claim(s): P-1013707

Calculation of Expenditure Days Credits
Total Expenditures: $ 845 + 15 = Total Days Credits: 56

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.

Date: Oct 5, 1988
Recorded Holder, Agent, or State Official (Signature)

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
	Date Approved as Recorded	Branch Director

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
R. D. Somerville 1052 Esquimalt Ave
West Vancouver B.C V7T 1S8

Date Certified: Oct 5/88
Certified By (Signature)

RSGM R. Somerville Geological & Mining Engineering Ltd.
1052 Esquimalt Avenue • West Vancouver, B.C. V7T 1J8 • Telephone (604) 922-6955

CERTIFICATE

Re: A Preliminary Geochemical Report on the Shaw #1 Property Shaw Township, Ontario, dated December 31, 1988.

I, Richard D. Somerville, residing at 1052 Esquimalt Avenue, West Vancouver, British Columbia, V7T 1J8 certify that:

1. I am a practicing Consulting Geologist with offices at 1052 Esquimalt Avenue, West Vancouver, B.C.

2. I am President of R. Somerville Geological and Mining Engineering Ltd.

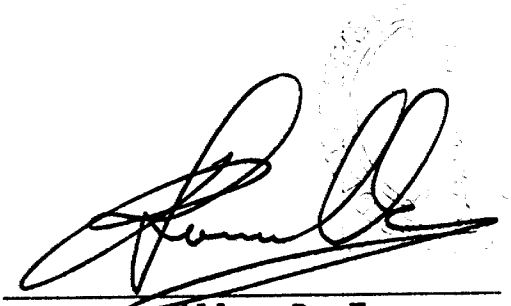
3. I am a Registered Professional Engineer of the Province of Ontario and British Columbia.

4. I am a Fellow of the Geological Association of Canada and a member of the Canadian Institute of Mining & Metallurgy.

5. I am a graduate of Queen's University at Kingston, Ontario, having received a B. Sc. (honours) degree majoring in Geology, and a B.A. degree majoring in physics and mathematics.

6. This survey was conducted under my direction. I have visited the property, and I am satisfied that the survey was conducted in a proper and professional manner.

West Vancouver, British Columbia
December 31, 1988



R. Somerville, P. Eng.

Ministry of Northern Development and Mines

Ontario

W8806.50124

Report of Work

(Geophysical, Geological, Geochemical and Expenditures)

42A06NE0351 2.12109 SHAW

900

2.12106

Type of Survey(s): GEOCHEMICAL (SAMPLING)

Township or Area: SHAW TOWNSHIP

Claim Holder(s): AJM METALS LTD.

Prospector's Licence No.: T-4857

Address: Suite 500 - 171 West Esplanade St N. Vancouver B.C V7M1A1

Survey Company: R. Somerville Geol. & Mining Eng Ltd.

Date of Survey (from & to): 27 09 88 (Day Mo. Yr.) 05 10 88 (Day Mo. Yr.)

Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): R. D. Somerville 1052 Esquimalt Ave W. Vancouver B.C V7T1J5

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED DEC 7 1988 MINING LANDS SECTION

RECEIVED OCT 5 1988 PORCUPINE MINING DIVISION

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
P	1026691	20
P	1026692	20

RECORDED OCT - 5 1988

ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE APR 20 1989 RECEIVED

Total number of mining claims covered by this report of work: 2

Expenditures (excludes power stripping)

Type of Work Performed: Geochemical Sampling

Performed on Claim(s): P-1013707

Calculation of Expenditure Days Credits

Total Expenditures: $ 845 ÷ 15 = Total Days Credits: 56

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.

For Office Use Only

Total Days Cr. Recorded: 56

Date Recorded: Oct 5/88

Date Approved as Recorded: 4 April 89

Mining Recorder: [signature]

Branch Director: [signature]

Date: Oct 5, 1988

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: R. D. Somerville 1052 Esquimalt Ave [signature]

MAP SYMBOLOGY

Aerial Cableway
Boundary
Bridge
Building
Chimney
Cliff, Pit, Pile
Contours
Control Points
Culvert
Falls
Fence, Hedge, Wall
Feature Outline
Flooded Land
Lock
Marsh or Swamp
Mast
Mine Head Frame
Outcrop
Pipeline
Railroad
Road
Rapids
Reservoir
River, Stream, Canal
Rock
Shoal
Spot Elevation
Tower
Transmission Line
Tunnel
Utility Poles
Wharf, Dock, Pier
Wooded Area

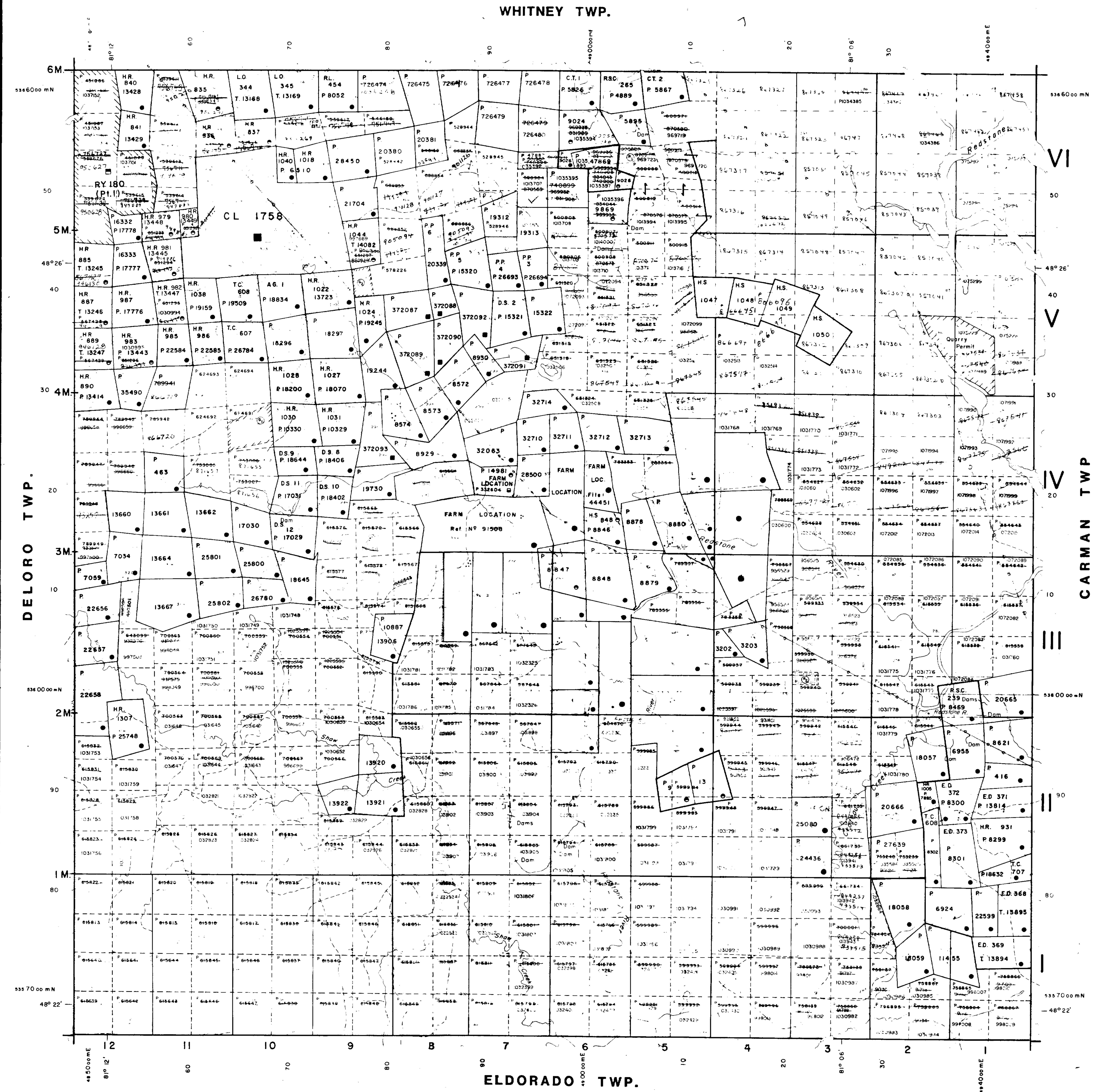
AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

	Description	Order No.	Date	Disposition	File
(R1)	Rec Purp	Sec. 3 PLA			188543
(R2)		W 97/77	15/12/77	SRO	86555
(R3)		~~NRG 33/85~~	~~6 5/85~~	~~NRO~~	~~W-7-85 AR~~

SAND AND GRAVEL

(S1) GRAVEL 53666
(S2) GRAVEL 68760



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
UNSURVEYED LINES
LOT LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON-PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	(R)
CANCELLED	⊗
SAND & GRAVEL	(S)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 380, SEC. 63 SUBSEC. 1

Metres 500 0 1000 Metres
Chains 10 0 10 20 30 40 50 60 70 Chains
Feet 500 0 1000 2000 3000 4000 5000 Feet

SCALE 1:20 000
GRID ZONE: 17

RECEIVED FEB 22 1989

TOWNSHIP

SHAW

M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario Ministry of Natural Resources — Land Management Branch

ORIGINAL COMPILATION JULY 1994

REVISED

G-3999

42A06NE0351 2.12109 SHAW

200

Legend

- A - Agglomerate
- C - Carbonatized rock of undetermined origin
- Db- Diabase
- IF - Iron Formation
  (s) sulphide (o) oxide
  Py- pyrite
- Felsic or Intermediate Intrusive
  8 - unsubdivided
  8a- quartz and/or feldspar porphyry
  8b- felsite
- Metamorphosed Mafic Intrusive Rocks
  7 - unsubdivided 7a - amphibole
  7b- quartz gabbro
  7k- chloritized
- Metamorphosed Ultramafic Intrusive Rocks
  6 - unsubdivided
  6a- serpentinized
  6d- carbonatized
  6g- carbonatized
  6k- chloritized
- Felsic or Intermediate Metavolcanics
  4 - unsubdivided
  4b- pyroclastics
  4c- schistose, sericitic
- Mafic Metavolcanics
  3 - unsubdivided
  3a- massive flows
  3d- pyroclastics
  3e- breccia
  3g- carbonatized
- Ultramafic Metavolcanics
  I - unsubdivided
  Ic - massive flows
  Ig - carbonatized
  Ik - chloritized

Tr- trench or pit
CLAIM POST □
CLAIM BOUNDARY ————————
GEOLOGICAL BOUNDARY - - - - - - - -
DIAMOND DRILL HOLE ○-------
OUTCROP ◌ or X

SHEET INDEX

E	D	C
F	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A20 A19 A18 A17 A16 A21 A22 A23 A24 A25	b3 b4 b2 b1
G	H	I

2.12109

SCALE: 1:2000

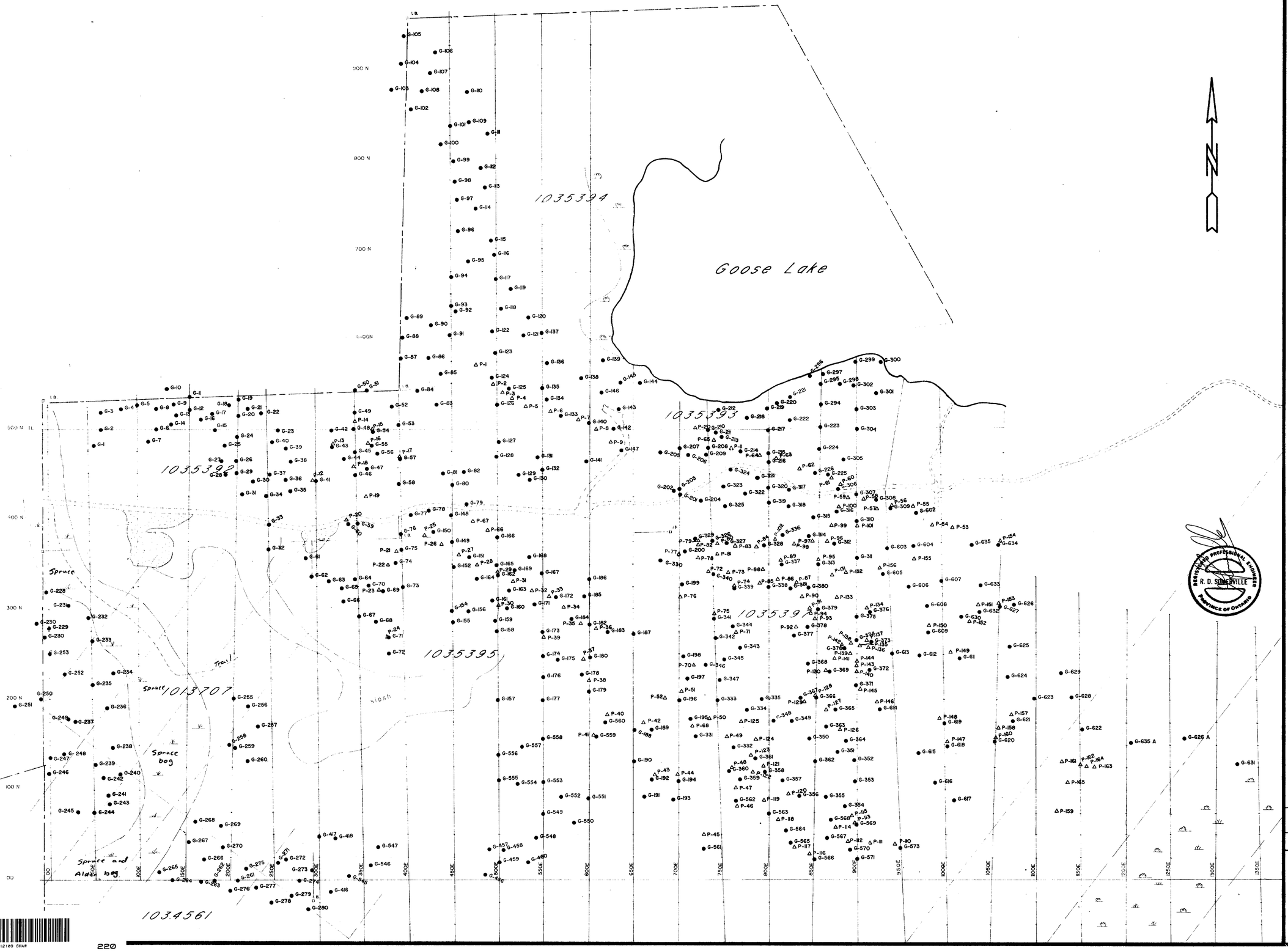
0 25 50 75 100

R. SOMERVILLE ENGINEERING LTD.

GEOLOGICAL SURVEY
TOTAL ENERGOLD CORPORATION
Shaw #1 Property
Shaw Township
Porcupine Mining Division

MAP No. A13 SITE No.
BY: R SOMERVILLE P.Eng.
DATE: DEC 31, 1988

REGISTERED PROFESSIONAL ENGINEER
R. D. SOMERVILLE
PROVINCE OF ONTARIO



GRAB SAMPLES △

PLUGGER DUST SAMPLE ●

CUT OR FILL CREST

TOE

DIAMOND DRILL HOLE ○

FENCE

POWER LINE — RED

RAILWAY AND RIGHT OF WAY — SMALL SCALE — LARGE SCALE

REGISTERED PROFESSIONAL ENGINEER
R. D. SOMERVILLE
PROVINCE OF ONTARIO

SHEET INDEX

E		D			C		
F	A1	A2	A3	A4	A5	b3	b4
	A10	A9	A8	A7	A6		
	A11	A12	A	A14	A15	B	
	A20	A19	A18	A17	A16	b2	b1
	A21	A22	A23	A24	A25		
G		H			I		

2.12109

SCALE: 1:2000

0 25 50 75 100

R. SOMERVILLE ENGINEERING LTD.

TOTAL ENERGOLD CORPORATION

ROCK GEOCHEM SURVEY

Shaw # 1 Group

Shaw Township, Ontario

MAP No. A-13 PLATE No. 1

BY: R. SOMERVILLE P.Eng.

DATE: DEC 31, 1988

42A08NE0351 2.12109 SHAW