



R. Somerville Geological & Mining Engineering Ltd.

Ste. 103 - 255 West 1st Street • North Vancouver, B.C., Canada V7M 3G8 • Telephone (604) 986-5766



42A06NE0350 2.12785 SHAW

010

A GEOCHEMICAL REPORT

on

THE SHAW #1 PROPERTY

SHAW TOWNSHIP

ONTARIO

by

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

dated September 15, 1989.



TABLE OF CONTENTS

Page

VOLUME 1

INTRODUCTION	1
LOCATION Map: Figure 1	2
Location Map: Figure 2	3
PROPERTY LOCATION AND ACCESS	4
PHYSIOGRAPHY	6
PREVIOUS WORK	7
GENERAL GEOLOGY	9
Stratigraphy	9
Geology of the Timmins District: Figure 3	11
Stratigraphic Map of the Timmins District: Figure 4	12
Intrusive Igneous Rocks	13
Structural Geology	14
Metamorphism	14
GEOLOGY OF THE PROPERTY	15
Summary	15
Area Covered by Geological Survey 1988: Figure 5	16
Stratigraphic Map: Figure 6	17
SURVEY SAMPLING AND ANALYTICAL METHODS	18
Results of Survey	20

● APPENDIX I
Analytical Techniques
Geochemical Analysis

APPENDIX II
Geochemical Program Costs

APPENDIX III
Report of Work

APPENDIX IV
Certificate

VOLUME 2

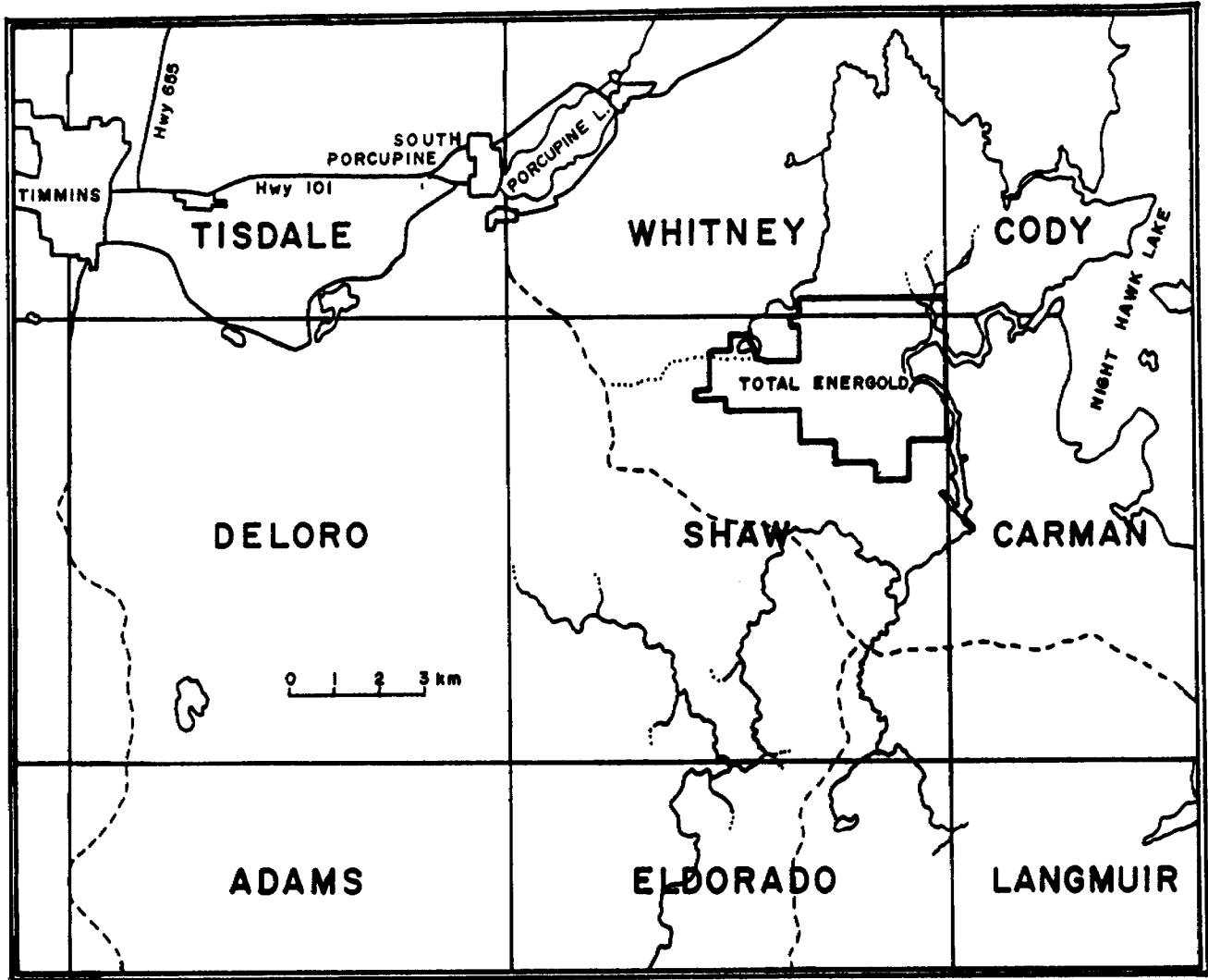
POCKETS

ROCK GEOCHEMICAL SURVEY	Maps No. 13, 16, 17, 18, 24, 25
Sample Location and Numbers	Plate No. 1
Gold and Silver	Plate No. 2
Arsenic and Antimony	Plate No. 3
Copper, Zinc and Boron	Plate No. 4
Chromium, Lithium and Bismuth	Plate No. 5
Molybdenum, Lead and Boron	Plate No. 6

doc/SHAWGEOC

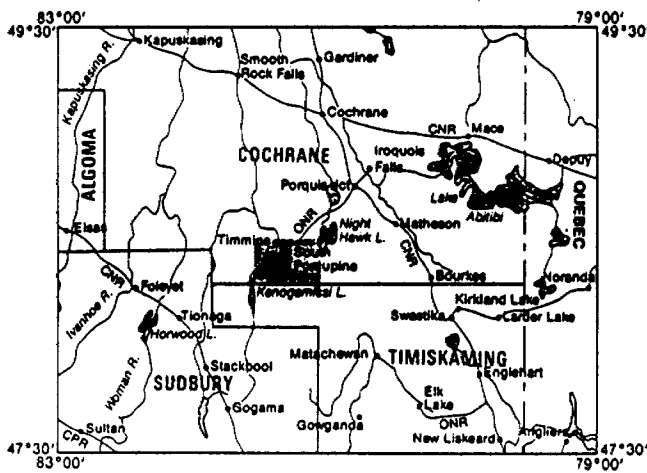
INTRODUCTION

This is a final report on the results of a geochemical survey conducted on two claims. This survey includes the results from 922 samples. An earlier report dated December 31, 1988 gave the preliminary data on 50 sample sites. This data has also been incorporated into the present report. 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 were the registered holders of the claims at the time the work was done. The current registered holders of the claims are R.D. Somerville, whose address is 1052 Esquimalt Avenue, West Vancouver, B.C., V7T 1J8 and D.E. Somerville, whose address is Site 1, Box 19, R.R. #3, North Bay, Ontario, P1B 8G4.

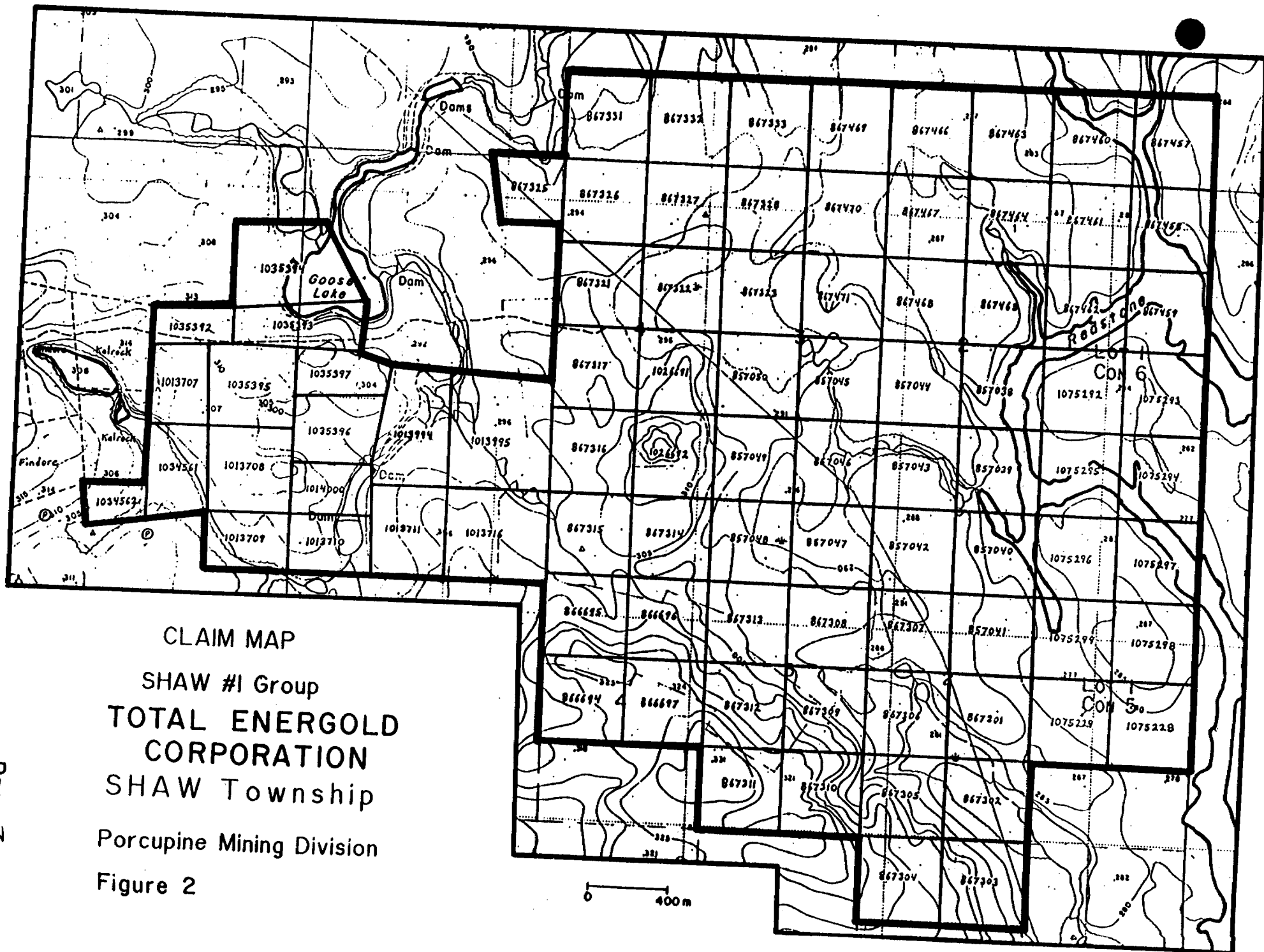


LOCATION MAP

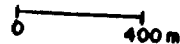
SHAW #1 Group
TOTAL ENERGOLD
CORPORATION
 SHAW Township
 Porcupine Mining Division
 Ontario



Aeromagnetic reference 293G
 N.T.S. reference 42A/6



CLAIM MAP
 SHAW #1 Group
 TOTAL ENERGO
 CORPORATION
 SHAW Township
 Porcupine Mining Division
 Figure 2



PROPERTY, LOCATION AND ACCESS

The Shaw #1 group consists of 88 contiguous unpatented mining claims. These are recorded in the Porcupine Mining Division in the name of R.D. Somerville and D.E. Somerville.

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 the following claims:

P866694 - 97

P867303, 05

P867309, 10

P867312 - 16

P1013707 - 11

P1013716

P1013994, 95

P1014000

P1026692

P1034561

P1035392 - 97

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 property 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.
- 1988 - Total Energold Corporation performed extensive geochemical, magnetic, VLF-EM and HEM surveys on portions of the 88 claim group.

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 has been filed 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

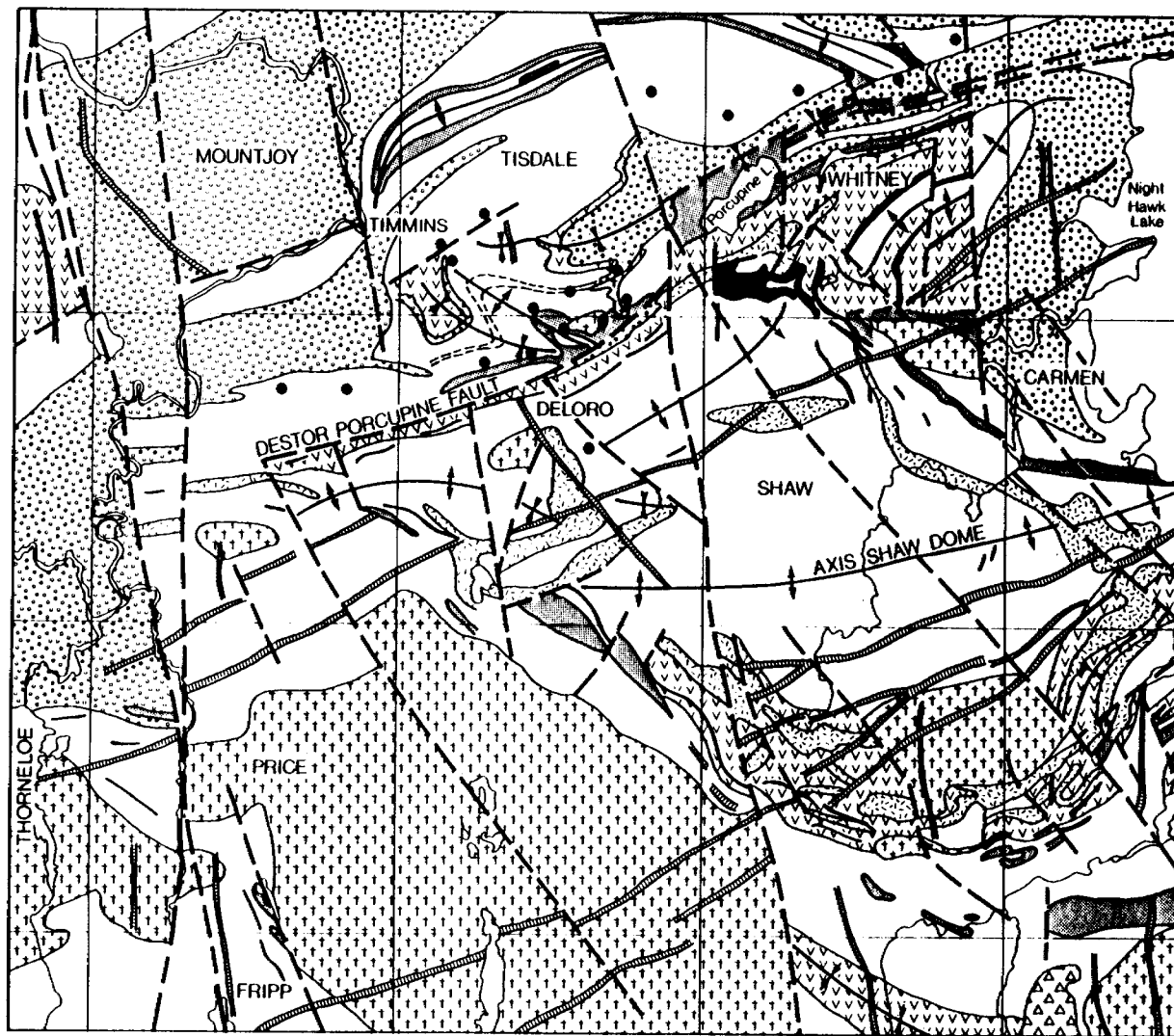
Pyke divided the Archean volcanic and sedimentary rocks of the district into three groups, the Deloro, Tisdale, and Porcupine Groups. The volcanic rocks are divided into the Deloro and Tisdale Groups, and the sedimentary rocks are assigned to the Porcupine Group (Figure 4).

The two volcanic 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.









LEGEND

MIDDLE PRECAMBRIAN

-  Cobalt Formation
greywacke, arkose, argillite, conglomerate
unconformity

EARLY PRECAMBRIAN

-  Diabase *
-  Intrusive Contact
-  Granitic intrusive rocks
-  Intrusive Contact
-  Ultramafic intrusive rocks
-  Intrusive Contact
-  Sediments (dominantly turbidites)
-  Iron formation
-  Felsic to intermediate volcanics
-  Mafic volcanics
-  Ultramafic volcanics
- ✦ Some diabase dikes are Middle to Late Precambrian age
- Location of gold mines (present and past producers)
- - - Fault
- + + Anticlinal axis
- + - Synclinal axis

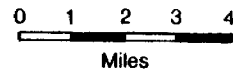


Figure 3 - Geology of the Timmins district (after Pyke 82)

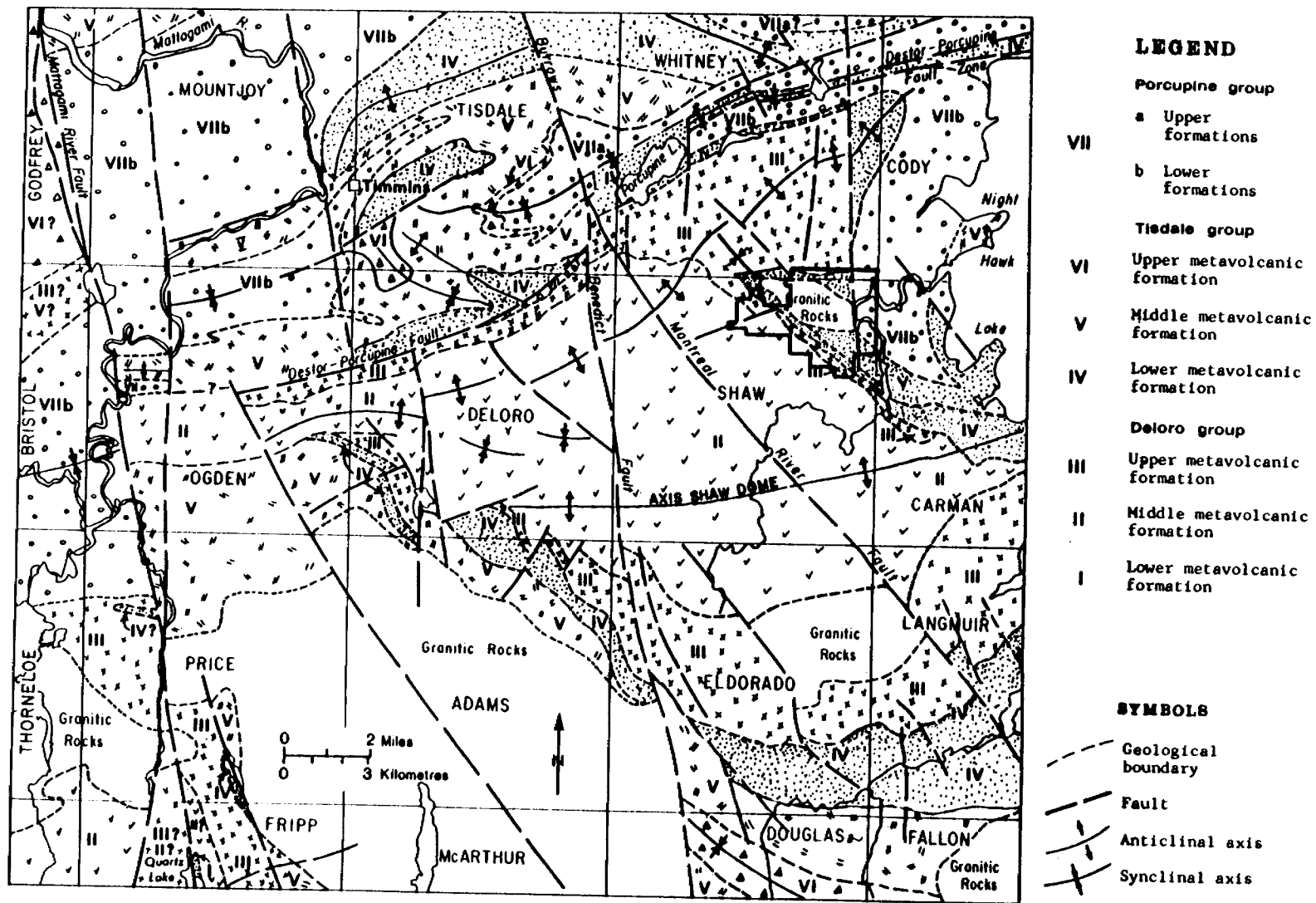


Figure 4 - Stratigraphic map of the Timmins district (after Pyke 82)

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-feldspar 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.

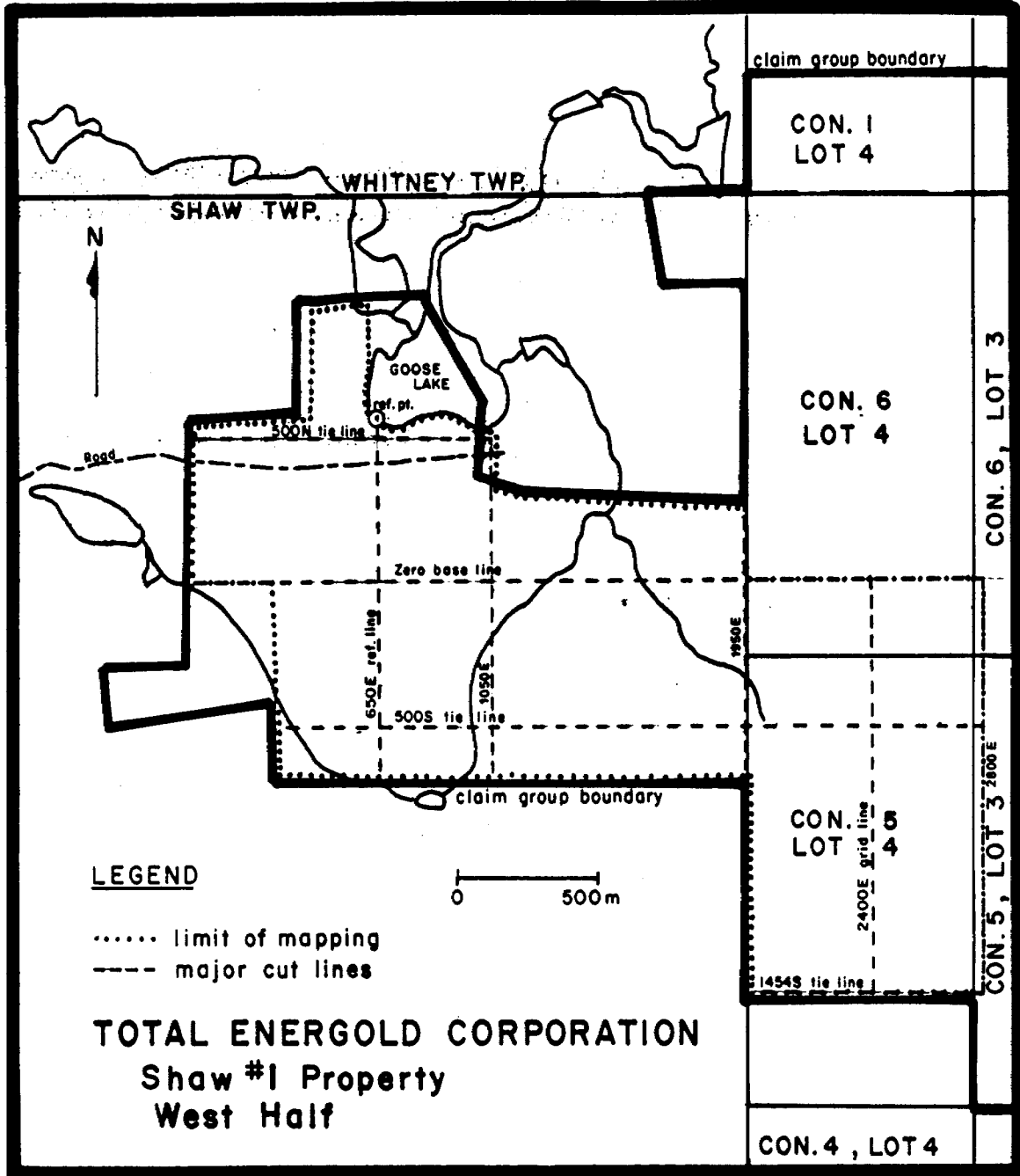
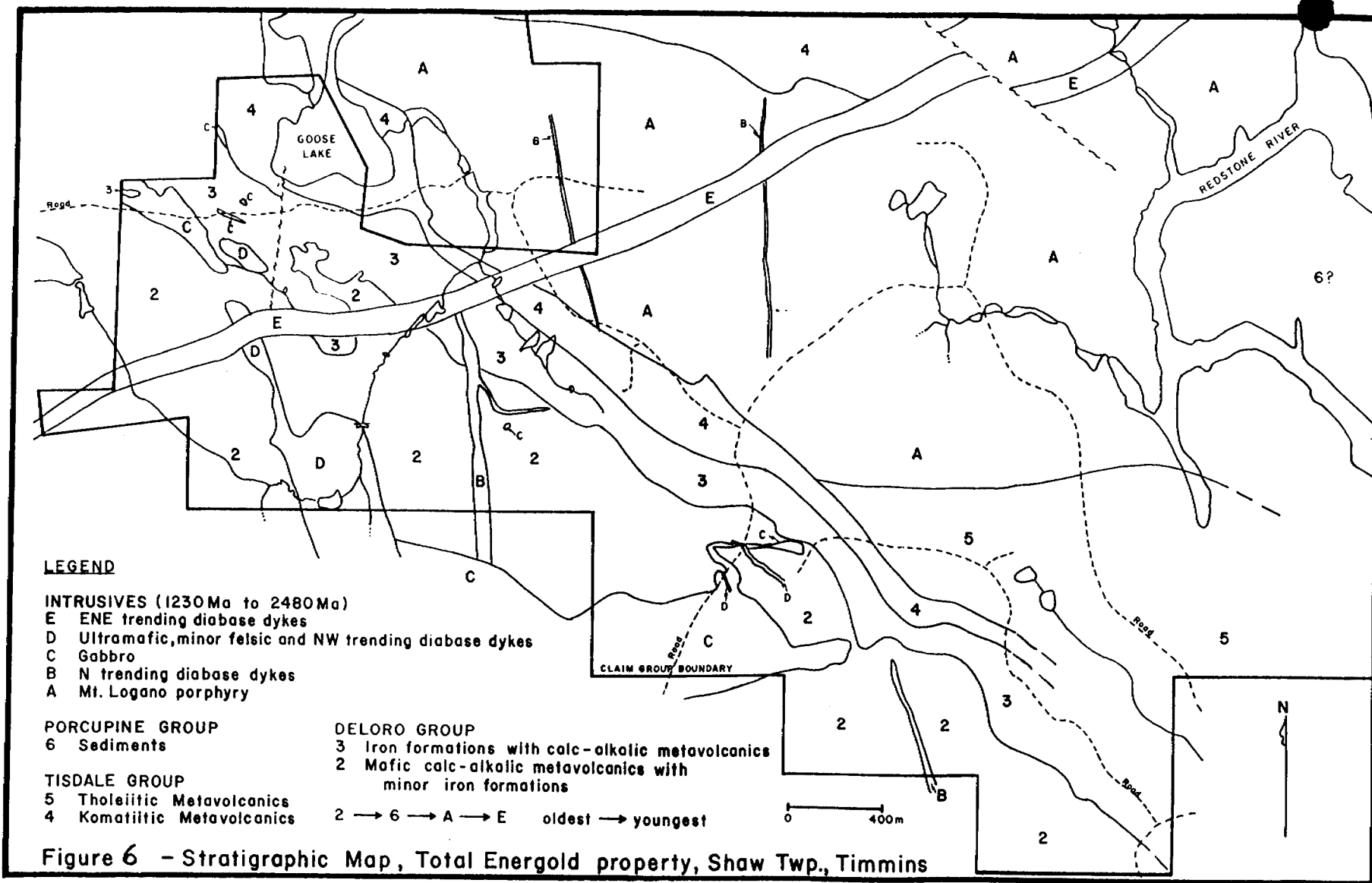


Figure 5 - Area covered by geological survey, 1988



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 0E 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 established 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. In total, 688 samples were taken in this fashion. Throughout the property along the strike of the iron formation, a number of rock chip samples were taken. A two to three kilogram sample was chipped over approximately a two square metre sample site. 234 samples were taken in this fashion.

All 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 samples were 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. All samples taken between September 10, 1988 and November 4, 1988. On average, 35 samples per day were taken by the crew. The analysis for these samples was completed by November 4, 1988.

Results of Survey

The 922 samples were collected between September 10, 1988 and October 15, 1988, on the 30 claims listed below:

P8666694 - 97

P867303, 05

P867309, 10

P867312 - 16

P1013707 - 11

P1013716

P1013994, 95

P1014000

P1026692

P1034561

P1035392 - 97

The samples were analysed by November 4, 1988, and their analytical results are contained within Appendix I of this report.

The locations of the samples are plotted on Plate 1 of 6 maps (A13, 16, 17, 18, 24, 25). On Plates 2 to 6 of the 6 maps are plotted the results of the survey in groupings of two or three metals to each plate.

APPENDIX I

ANALYTICAL TECHNIQUES

GEOCHEMICAL ANALYSIS

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.

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 HClO₄ 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.



**MIN
• EN
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. 7801067 • FAX (604) 980-9621

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

Analytical Report

Company: R. SOMMERVILLE GEOL. & MINING ENGINEERING
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. Z. TITTLE

File: 82-1243
Date: SEPT. 16/88
Type: ROCK GEOCHEM

Date Samples Received : SEPT. 13/88
Samples Submitted by : H. Z. TITTLE

Report on 45 ROCKS Geochem Samples
..... Assay Samples

Copies sent to:

1. R. SOMMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....

Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:

AU-FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

(VALUES IN PPM) AU-PPB	
5-0	10
6-02	7
6-03	2
5-04	4
5-05	3
6-06	2
5-07	4
6-08	3
5-09	5
5-10	2
6-11	1
6-12	1
6-13	3
6-14	2
6-15	1
6-16	3
6-17	2
6-18	1
6-19	4
6-20	3
6-21	5
6-22	2
6-23	1
6-24	6
5-25	2
6-26	2
6-27	3
6-28	1
6-29	2
6-30	2
6-31	4
6-32	2
6-33	3
6-34	4
6-35	5
6-36	2
6-37	10
6-38	2
6-39	1
6-40	2
6-41	1
6-42	2
6-43	2
6-44	1
6-45	46

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR
G-0	1.0	15	1	20	5	18	11	4	17	1	44	182
G-02	2.3	16	1	20	13	10	14	3	19	1	24	170
G-03	1.0	1	1	10	11	9	18	2	21	1	83	168
G-04	.6	5	2	46	10	8	17	2	18	1	39	166
G-05	.8	8	2	32	11	8	15	1	21	1	35	176
G-06	1.2	7	1	7	11	8	15	2	15	1	23	171
G-07	2.3	18	1	3	10	20	8	4	16	2	18	121
G-08	.8	7	1	4	7	53	15	1	20	2	24	104
G-09	1.4	10	1	26	6	8	15	3	17	1	15	79
G-10	1.2	16	1	20	6	8	11	3	17	1	20	98
G-11	1.4	24	1	27	5	9	9	3	29	1	16	66
G-12	1.0	14	1	24	5	9	9	3	20	1	16	68
G-13	1.3	80	1	4	8	9	15	3	19	2	28	1059
G-14	1.9	18	1	3	11	8	11	3	20	1	16	116
G-15	.7	7	2	83	5	9	14	1	18	3	43	61
G-16	.5	45	3	118	7	9	32	3	13	1	63	1184
G-17	.5	26	4	25	6	9	26	1	17	2	55	443
G-18	.7	11	1	46	5	10	12	2	17	2	50	67
G-19	.6	8	4	38	4	11	14	1	17	1	60	135
G-20	.6	15	3	17	5	8	24	12	14	3	74	133
G-21	.4	19	2	9	4	9	19	2	16	3	56	117
G-22	.6	65	2	3	5	17	15	1	14	1	62	1093
G-23	.4	10	3	15	4	8	24	1	15	2	26	60
G-24	.4	1	2	5	5	23	19	1	19	1	45	72
G-25	.9	8	15	19	5	9	16	1	15	3	26	52
G-26	.5	1	3	31	6	9	12	1	20	3	32	66
G-27	.6	6	3	17	5	8	16	1	19	3	66	70
G-28	.4	3	2	28	6	9	12	1	14	2	34	49
G-29	.6	6	2	28	5	9	14	1	16	3	42	56
G-30	1.3	5	2	20	9	68	16	1	22	2	44	61
G-31	.4	10	2	31	6	10	15	1	18	2	55	55
G-32	.6	30	2	3	3	8	24	1	12	6	50	44
G-33	.6	38	2	29	4	9	16	1	17	1	71	44
G-34	1.6	43	3	37	14	10	18	2	21	2	51	45
G-35	1.2	40	3	23	10	10	21	1	19	2	36	47
G-36	.9	5	4	18	9	8	31	1	17	2	63	61
G-37	.3	12	2	62	4	107	16	2	21	2	34	77
G-38	.6	8	2	28	5	10	22	2	16	2	33	84
G-39	1.2	15	1	42	6	9	15	2	17	1	26	60
G-40	.5	14	4	49	4	9	26	2	17	2	64	96
G-41	.6	28	3	3	4	9	4	2	7	1	22	132
G-42	.5	12	5	1	3	9	6	3	22	9	11	117
G-43	.6	16	4	2	2	10	5	3	17	6	31	187
G-44	.3	5	3	4	3	9	4	1	21	6	13	94
G-45	.4	5	8	3	6	12	4	3	7	2	5	55



**MIN
• EN
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) 980-9821

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9696

Analytical Report

Company: **MIN-EN LABORATORIES LTD.** Timmins, Ont. Canada
 Project: **79 ROCKS**
 Attention: **R. SOMMERVILLE** Type: **ROCK GEOCHEM**

Date: **1988**
 Samples Submitted by: **H. TITTLE**

Report on **79 ROCKS** Geochem Samples
 Assay Samples

Copies sent to:
 1. R. SOMMERVILLE, VANCOUVER, B.C.
 2. R. SOMMERVILLE, PORCUPINE, ONT.
 3. R. SOMMERVILLE, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....
 Prepared samples stored: X discarded:
 rejects stored: X discarded:

Methods of analysis:
 ALL-FIRE GEOCHEM
 12 ELEMENT TRACE ICP

Remarks:

Invoice received and approved

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-047	.4	26	1	3	2	10	2	1	24	1	21	105	22
6-048	.5	17	1	1	3	8	2	2	32	2	26	111	16
6-049	.5	2	1	1	2	9	2	3	31	1	26	115	21
6-050	.2	9	1	20	2	8	19	2	13	1	54	81	24
6-051	2.0	13	1	19	11	27	12	2	8	2	60	104	19
6-052	1.8	27	1	42	8	36	16	1	6	2	58	82	20
6-053	.9	18	1	38	3	41	23	1	12	2	69	98	12
6-054	1.1	63	5	9	1	190	21	5	20	1	77	106	41
6-055	1.2	36	1	2	2	51	3	1	40	3	15	143	28
6-056	.9	182	1	1	4	8	12	2	17	1	50	1849	29
6-057	1.1	27	1	2	3	36	3	4	15	3	16	221	20
6-058	1.0	168	1	1	3	17	8	2	11	4	55	1800	26
6-059	.6	8	5	7	4	9	2	2	33	4	23	86	18
6-060	.4	18	2	2	2	8	2	3	9	4	14	113	23
6-061	.7	21	1	35	3	7	11	1	15	1	57	65	22
6-062	.4	8	2	17	2	8	15	2	10	5	51	46	22
6-063	.3	10	2	21	4	8	23	2	11	4	48	46	21
6-064	.4	18	1	23	3	33	17	3	15	3	55	51	17
6-065	.5	16	2	26	2	8	19	2	7	3	56	57	22
6-066	.4	6	3	22	3	8	24	3	17	3	63	46	16
6-067	.4	10	2	32	3	73	21	3	13	3	59	52	13
6-068	.8	9	1	23	6	68	23	3	7	3	59	55	2
6-069	.4	59	1	1	4	8	11	2	16	5	53	1293	19
6-070	1.3	7	1	2	3	77	9	2	15	1	16	591	5
6-071	.9	29	3	10	3	1058	6	2	14	2	36	126	42
6-072	.6	76	1	5	3	33	10	1	9	3	35	1337	21
6-073	.9	18	1	32	4	16	21	1	7	1	31	142	22
6-074	.7	18	5	2	1	155	12	3	16	3	31	473	17
6-075	.4	19	3	167	2	7	2	2	21	5	9	101	26
6-076	.9	110	1	4	1	7	4	1	15	7	14	160	1490
6-077	.7	52	1	2	3	21	11	1	18	1	33	1071	37
6-078	1.2	173	1	1	3	86	9	3	7	1	53	2370	26
6-079	.4	66	1	1	3	28	8	1	8	1	39	1232	18
6-080	.2	6	1	39	2	7	18	1	18	1	57	160	24
6-081	2.0	18	1	55	9	35	17	1	10	1	44	121	19
6-082	1.4	7	1	37	7	39	22	1	16	2	55	137	5
6-083	1.9	16	1	52	11	34	16	1	10	3	53	119	17
6-084	1.8	28	1	6	10	20	19	1	10	2	28	151	3
6-085	.9	9	1	71	3	36	18	1	11	1	121	125	22
6-086	.8	17	1	58	3	28	25	1	8	1	63	115	16
6-087	2.1	30	1	5	13	42	18	1	15	1	41	193	18
6-088	1.5	16	1	6	8	7	29	1	8	2	28	131	3
6-089	1.2	19	1	64	3	64	15	1	18	1	172	85	19
6-090	.4	119	1	1	6	41	27	3	12	1	56	1370	2
6-091	.6	51	1	5	3	33	32	1	17	4	88	950	18
6-092	.3	18	3	1	4	8	33	1	17	4	54	1128	5
6-093	.4	13	3	1	4	42	46	2	7	6	50	1028	17
6-094	.3	41	2	2	3	50	18	2	20	4	45	585	2
6-095	.6	34	1	1	3	32	18	1	9	3	45	1046	4
6-096	1.5	50	1	1	9	24	15	3	9	3	50	1161	2
6-097	1.8	51	1	2	9	91	14	1	13	2	41	1021	8
6-098	1.8	35	1	1	9	101	15	3	13	2	42	944	13
6-099	1.7	46	1	15	10	71	17	2	16	2	43	1051	19
6-100	.6	47	1	1	5	56	15	2	11	3	44	1149	14
6-101	.7	57	1	1	2	55	16	3	16	2	37	1263	20
6-102	.6	38	1	1	3	39	13	1	8	3	34	1012	22
6-103	.7	26	2	1	5	44	12	3	7	4	40	955	3
6-104	.9	45	2	1	4	37	22	2	20	4	45	1274	21
6-105	.6	49	1	1	3	35	14	2	6	2	40	1169	29

COMPANY: R.SOMMERVILLE

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: TIMMINS-SHAW

705 WEST 15TH ST., NORTH VANCOUVER, B.C. v/n 1T2

FILE NO: 82-1263/P3

ATTENTION: R.SOMMERVILLE H.TITILEY

(604)980-5814 OR (604)988-4524 # TYPE ROCK GEOCHEM #

DATE: SEPTEMBER 23, 1988

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-106	.9	57	1	2	2	65	15	3	11	1	39	1237	19
6-107	.9	43	1	1	4	27	16	3	6	1	49	1121	36
6-108	.7	70	1	1	4	41	14	2	7	2	32	1191	22
6-109	.5	71	2	2	4	26	15	2	10	3	51	1498	39
6-110	.6	56	2	1	4	57	15	4	11	3	51	1361	28
6-111	.5	45	14	1	4	12	16	2	11	2	40	1231	24
6-112	.8	62	1	1	4	8	14	3	7	1	40	1329	19
6-113	.8	63	1	1	4	8	14	3	10	3	48	1411	20
6-114	.6	44	2	1	3	63	16	3	7	2	59	1323	28
6-115	1.9	71	1	3	10	53	19	1	7	2	51	1435	21
6-116	1.3	40	1	1	7	29	14	2	16	2	45	1028	20
6-117	1.7	48	1	1	10	62	14	3	5	1	45	970	32
6-118	1.3	31	3	1	10	29	16	2	10	2	54	1254	21
6-119	.3	25	2	1	5	63	14	3	15	1	44	965	23
6-120	1.8	66	1	3	10	50	15	2	13	1	51	1437	16
6-121	.6	29	2	2	6	24	14	3	14	2	48	1179	18
6-122	.5	39	2	1	4	27	13	1	15	4	56	1220	24
6-123	.6	80	1	1	4	47	20	2	17	3	49	1340	12
6-124	.8	16	1	2	1	42	4	1	16	1	22	122	19



**MIN
• EN
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. 7801067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 284-9996

Analytical Report

Company: R. SOMMERVILLE
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLE

File: 88-1277
Date: SEPT. 23/88
Type: ROCK GEOCHEM

Date Samples Received: SEPT. 17/88
Samples Submitted by: H. TITTLE

Report on 25 ROCKS Geochem Samples
..... Assay Samples

- Copies sent to:
1. R. SOMMERVILLE, VANCOUVER, B.C.
 2. R. SOMMERVILLE, PORCUPINE, ONT.
 3. R. SOMMERVILLE, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....
Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:
AU-FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

Invoice Received & Approved

COMPANY: R. SOMMERVILLE
 PROJECT NO: TIMMINS-SHAW

MIN-EN LABS ICP REPORT
 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V 1T2

(ACT:F31) PAGE 1 OF 1
 FILE NO: 82-1277/P1

ATTENTION: R. SOMMERVILLE H. TITILEY

(604)980-5814 OR (604)988-4524 & TYPE ROCK GEOCHEM &

DATE: SEPTEMBER 23, 1988

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-143	.8	36	3	2	3	104	18	3	21	5	46	1168	2
6-144	1.7	78	1	2	7	67	18	2	15	2	39	1251	5
6-145	2.0	86	1	2	10	41	16	2	12	2	43	1288	2
6-146	.7	54	3	1	3	48	20	1	18	3	50	1104	4
6-147	.3	12	1	6	1	9	4	3	21	1	23	90	1
6-148	.5	24	4	5	3	76	40	3	17	3	69	332	5
6-149	.8	42	1	2	1	69	3	2	20	1	39	250	3
6-150	.9	21	1	2	1	90	2	1	25	1	18	88	1
6-151	.3	28	1	3	1	13	2	1	25	1	34	126	2
6-152	.4	12	1	8	1	14	2	1	16	1	24	51	12
6-153	.7	30	3	56	3	10	2	1	17	1	11	109	9
6-154	.9	27	1	21	2	8	12	1	9	1	22	120	2
6-155	.3	28	1	3	2	12	14	1	12	4	30	171	6
6-156	1.0	26	1	22	3	7	20	1	10	1	33	124	2
6-158	.6	23	1	12	2	7	15	1	19	1	30	96	7
6-160	.3	32	2	1	3	7	3	1	23	3	25	68	5
6-161	.6	19	3	1	2	9	2	2	28	7	19	98	3
6-162	.5	35	1	2	1	8	2	1	11	1	26	73	2
6-163	.3	12	1	5	1	7	2	1	11	3	17	37	2
6-164	.8	22	1	3	3	10	2	2	13	7	31	81	8
6-165	1.2	20	1	1	3	90	4	2	17	1	23	50	5
6-167	1.2	60	1	1	3	19	8	2	10	1	52	1260	2
6-168	.5	15	2	24	1	67	25	2	6	4	57	122	4
6-169	.9	8	1	7	4	12	6	2	11	1	44	79	2
6-170	.9	21	1	3	3	8	2	3	16	5	41	78	7



**MIN
• EN
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. 7801067 • FAX (604) 980-9621

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

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: H. TITTLLEY/R. SOMMERVILLE

File: 87-1287
Date: SEPT. 24/88
Type: ROCK GEOCHEM

Date Samples Received : SEPT. 20/88
Samples Submitted by : R. SOMMERVILLE

Report on 34 ROCKS Geochem Samples
.....
..... Assay Samples
.....

Copies sent to:

1. R. SOMMERVILLE GEOLOGICAL, VANCOUVER, B.C.
2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....

Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:

AU-FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

Received and approved invoice

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-1	.6	18	3	4	3	6	4	1	22	3	30	230	1
6-126	.9	8	2	23	3	8	14	2	16	4	23	60	2
6-127	1.3	4	3	36	4	20	23	2	19	3	31	75	2
6-128	.3	42	7	22	4	31	24	3	6	1	42	337	1
6-129	.4	25	6	8	2	49	28	3	13	3	54	62	1
6-130	.4	34	5	8	3	31	29	1	11	3	47	118	3
6-131	1.1	1	3	40	4	30	17	2	19	1	54	75	1
6-132	.3	1	5	11	2	9	7	1	18	3	31	151	1
6-133	1.7	27	1	3	4	24	5	4	14	5	18	190	1
6-134	.6	50	6	1	2	58	19	1	7	3	60	777	2
6-135	.9	74	5	1	5	45	18	3	13	4	45	1451	1
6-136	.3	41	6	1	4	54	13	1	18	3	44	976	1
6-137	1.2	71	5	1	7	6	14	1	17	4	39	1143	3
6-138	.7	72	6	1	7	37	15	1	11	3	48	1285	2
6-139	1.7	78	5	1	10	41	19	1	9	3	43	1130	1
6-140	1.8	28	1	3	4	11	4	4	13	6	16	186	2
6-141	1.1	8	6	87	5	7	21	1	13	5	32	127	1
6-142	.9	63	4	1	4	35	9	1	6	5	37	1212	4
6-171	.8	46	6	1	2	7	4	3	14	6	18	307	1
6-172	.6	39	3	2	2	5	4	2	21	1	37	320	2
6-173	.5	11	8	1	2	7	4	1	8	1	10	129	1
6-174	.4	1	4	27	2	6	11	2	24	2	36	92	2
6-175	.6	52	10	38	1	6	10	4	19	12	30	80	2
6-176	.4	2	6	34	1	7	18	1	22	2	66	166	2
6-177	.6	1	5	27	3	33	25	2	22	4	58	142	3
6-178	.3	25	6	3	1	10	4	2	8	5	11	174	1
6-179	.6	26	6	1	1	7	4	1	11	8	8	186	1
6-180	.7	15	8	3	1	6	4	2	15	4	42	137	2
6-181	1.5	68	5	6	4	212	19	1	11	2	21	941	2
6-182	.4	22	4	1	2	10	4	2	19	7	19	168	1
6-183	1.5	26	3	3	5	11	16	1	15	2	27	658	2
6-184	.7	10	7	3	2	6	4	4	24	12	10	143	1
6-185	1.0	59	5	1	5	7	21	2	6	2	42	1276	1
6-186	.4	42	5	9	2	90	27	3	10	2	23	199	2



**MIN
EN
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 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE

File: 82-1301
Date: SEP 27
Type: ROCK GEOCHEM

Date Samples Received: SEPT 21/88
Samples Submitted by: R. SOMMERVILLE

Report on 30 ROCKS Geochem Samples
..... Assay Samples

- Copies sent to:
1. R. SOMMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
 2. R.S.G.M., PORCUPINE, ONT.
 3. R.S.G.M., C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100....

Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:

AU FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

Invoice and Receipt Approved

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-187	1.7	65	4	3	6	31	18	2	7	2	41	1339	3
6-188	1.6	37	4	1412	7	7	34	1	8	3	32	177	4
6-189	.4	62	12	4	1	6	4	1	25	11	10	44	2
6-190	1.4	17	3	83	4	7	17	2	16	3	40	68	5
6-191	.8	14	6	77	4	6	10	1	17	4	42	64	6
6-192	.7	21	6	4	1	9	4	1	12	5	18	86	2
6-193	.6	44	8	22	4	7	27	3	5	3	58	83	3
6-194	.7	12	8	1	2	6	9	1	18	4	38	76	1
6-105	.6	13	8	30	4	75	60	2	4	1	95	724	4
6-196	.7	15	6	1	4	6	4	2	9	2	7	100	1
6-197	.6	32	3	4	2	142	6	2	20	3	17	277	1
6-198	.5	26	2	1	1	6	4	1	18	1	15	142	5
6-199	1.5	1	5	23	5	7	27	2	11	3	18	76	2
6-200	1.2	33	1	3	4	57	5	2	14	3	20	248	3
6-201	1.1	6	4	54	4	32	19	1	17	4	43	74	1
6-202	1.0	1	5	48	4	8	25	1	12	3	33	95	5
6-203	.8	1	5	37	4	7	28	2	16	4	27	83	2
6-204	1.0	3	4	43	4	24	22	2	15	2	42	81	1
6-205	.3	31	9	4	3	19	44	2	17	1	36	76	3
6-206	.5	43	6	28	4	45	29	1	17	4	57	82	1
6-207	.3	43	6	19	4	6	35	1	23	3	60	61	2
6-208	1.7	34	1	11	4	23	4	4	13	4	14	191	1
6-209	1.0	40	2	61	4	8	4	2	14	1	17	249	1
6-210	.3	48	6	1	4	13	29	3	18	3	53	1109	3
6-211	1.3	32	3	1	5	11	16	1	6	3	31	822	1
6-212	.4	38	4	1	3	9	17	2	11	2	35	1075	1
6-213	1.1	28	4	1	5	15	20	2	15	2	35	988	3
6-214	1.5	34	1	3	5	33	6	3	16	5	28	226	2
6-215	1.3	28	2	12	3	39	6	1	16	3	10	161	1
6-216	.8	29	4	65	2	33	10	2	16	2	15	228	1



**MIN
EN
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

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLE

File: 82-1307
Date: SEPT. 27/88
Type: ROCK GEOCHEM

Date Samples Received : SEPT. 21/88
Samples Submitted by : R. SOMMERVILLE

Report on 31 ROCKS Geochem Samples
..... Assay Samples

Copies sent to:
1. R. SOMMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....
Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:
AU-FIRE GEOCHEM
12 ELEMENT TRACE ICP

Invoice Received and Approved

Remarks

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
G-17	.8	14	4	33	3	8	29	1	17	1	44	130	17
G-159	.4	16	5	5	2	125	4	2	17	1	31	312	3
G-166	.8	24	10	5	2	9	14	3	19	4	22	64	4
G-217	.7	32	5	2	4	27	19	2	12	5	36	1133	1
G-218	.5	44	6	3	5	9	25	1	9	5	43	1322	1
G-219	1.2	5	4	3	4	8	16	1	16	3	22	905	2
G-220	.7	63	5	2	3	16	17	1	18	1	37	1073	1
G-221	.8	80	7	2	4	7	22	2	21	1	51	1449	1
G-222	1.3	22	5	2	5	77	18	2	11	4	30	990	2
G-223	.4	33	7	3	4	7	31	2	13	6	72	1410	3
G-224	.5	60	7	3	4	7	25	2	14	1	50	1434	1
G-225	.6	17	3	4	2	40	4	1	22	3	700	247	2
G-226	.3	20	3	15	2	11	5	2	23	1	58	264	2
G-227	.4	59	6	3	4	65	21	3	16	1	51	1185	1
G-294	1.2	26	6	3	4	17	23	2	16	1	35	1176	3
G-295	.7	78	6	3	4	8	21	2	20	4	32	1111	3
G-296	.7	47	7	3	4	7	25	2	15	6	46	1382	6
G-297	1.0	55	5	3	5	8	22	2	18	1	30	1023	21
G-298	1.0	63	6	3	4	28	23	1	14	5	36	1245	2
G-299	1.1	31	5	3	4	15	20	1	16	4	30	960	1
G-300	.7	59	5	3	3	28	20	2	14	4	25	978	43
G-301	.9	54	5	2	3	27	18	2	6	1	39	1059	4
G-302	1.0	54	5	2	4	9	20	3	11	1	33	1050	2
G-303	.7	68	7	3	4	7	21	2	8	5	51	1737	1
G-304	.6	55	5	3	3	25	14	1	16	1	37	1374	1
G-305	1.1	41	5	3	4	8	17	2	9	1	32	1037	3
G-306	.7	7	7	8	1	440	8	1	21	1	15	227	1
G-307	1.5	26	1	5	4	24	5	4	16	5	23	229	2
G-308	.7	30	6	12	1	43	6	2	11	6	27	161	2
G-309	1.2	20	3	8	3	20	5	1	29	2	11	147	1
G-310	1.1	23	1	3	4	32	6	5	12	7	11	286	2



**MIN
• EN
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. 7801067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 284-9998

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLE

File: 82-1309
Date: SEPT 27/88
Type: ROCK GEOCHEM

Date samples Received : SEPT. 23/88
Samples Submitted by : R. SOMMERVILLE

Report on 19 ROCKS..... Geochem Samples
..... Assay Samples

- Copies sent to:
1. R. SOMMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
 2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
 3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....
Prepared samples stored: X..... discarded:
rejects stored: X..... discarded:

Methods of analysis:
12 ELEMENT TRACE ICP
AU-FIRE GEOCHEM

Remarks

*Invoice Received
and Approved*

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-308	.3	26	4	4	2	107	35	2	33	8	32	103	2
6-312	.5	17	5	3	1	9	5	3	24	6	17	112	1
6-313	1.3	8	2	7	3	126	5	4	12	1	18	194	4
6-314	1.4	30	1	9	4	38	5	5	15	8	17	274	2
6-315	.6	124	2	1	9	13	14	2	16	4	56	1212	3
6-316	.8	11	2	13	1	8	5	5	19	3	17	194	3
6-317	1.0	41	3	51	4	8	24	4	21	2	20	105	2
6-318	1.3	21	1	7	7	8	14	3	26	2	42	146	1
6-319	1.5	30	2	92	4	22	16	4	17	3	23	100	4
6-320	.9	21	3	84	4	7	24	3	22	3	26	66	6
6-321	.9	16	3	37	2	7	17	4	26	2	56	65	2
6-322	1.9	30	3	54	10	7	22	4	22	2	64	81	2
6-323	1.0	22	3	85	5	7	23	3	23	3	34	65	2
6-324	.9	25	3	41	2	8	15	3	22	3	46	55	9
6-325	2.0	20	2	10	12	8	25	4	25	3	74	113	6
6-326	.2	25	6	1	1	10	5	1	26	7	14	76	4
6-327	1.1	62	6	57	4	8	7	6	22	3	21	173	3
6-328	.9	24	3	3	1	94	4	2	16	1	31	250	4
6-329	.2	7	5	3	3	18	4	3	25	5	27	322	8



**MIN-EN
LABORATORIES LTD.**

SPECIALISTS IN MINERALOGY
CHEMISTS • ASSAYERS • ANALYSTS

MINERALOGY
ANALYSTS

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. 7801087 • FAX (604) 980-9621

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

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE

File: 82-1324
Date: SEPT. 29/88
Type: ROCK GEOCHEM

Date Samples Received : SEPT. 26/88
Samples Submitted by : R. SOMMERVILLE

Report on 18 ROCKS Geochem Samples
..... Assay Samples

Copies sent to:

1. R. SOMMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
2. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.
- 3.

Samples: Sieved to mesh Ground to mesh -100.....

Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:

AU-FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

COMPANY: R.SOMMERVILLE GEOLOGICAL

MIN-EN LABS ICP REPORT

(ACT:F31) PAGE 1 OF 1

PROJECT NO: TIMMINS-SHAW

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 82-1324/P1

ATTENTION: R.SOMMERVILLE

(604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM *

DATE: SEPTEMBER 29, 1988

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-330	1.1	34	5	41	5	8	23	5	22	6	26	98	1
6-331	1.2	33	2	46	5	22	18	5	19	5	23	106	4
6-332	.5	14	6	8	3	8	5	2	19	5	15	494	13
6-333	1.0	45	3	112	5	8	20	5	23	3	24	175	6
6-334	.7	32	2	33	4	23	47	4	24	3	34	123	2
6-335	.6	21	3	15	5	73	52	3	29	1	56	129	8
6-336	1.0	36	6	5	4	117	5	5	14	4	35	280	3
6-337	.9	16	2	8	3	38	5	4	20	1	21	197	4
6-338	.9	35	1	5	4	19	4	4	12	2	20	415	7
6-339	.9	33	2	3	3	7	4	4	14	6	20	330	2
6-340	.4	6	6	5	3	75	6	1	20	3	19	147	26
6-341	.2	1	4	3	3	17	4	1	23	2	18	145	1
6-342	.9	28	3	50	4	6	12	4	24	2	17	112	1
6-343	.6	30	4	20	3	9	39	2	25	1	36	101	5
6-344	.6	28	5	3	3	271	4	1	18	1	12	198	4
6-345	.9	37	2	46	4	25	22	4	22	3	24	110	3
6-346	.9	33	1	33	4	14	27	4	21	3	36	123	1
6-347	.9	36	2	65	5	8	31	4	21	4	29	200	2



**MIN
• EN
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. 7601087 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9998

Analytical Report

Company: SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. Z. TITTLLEY

File: 82-1345
Date: OCT 4/88
Type: ROCK GEOCHEM

Date Samples Received : SEPT 29/88
Samples Submitted by : R. SOMMERVILLE

Report on 69 ROCKS..... Geochem Samples
.....
..... Assay Samples
.....

- Copies sent to:
1. SOMMERVILLE GEOLOGICAL, TIMMINS, ONT.
 2. SOMMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
 3. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh

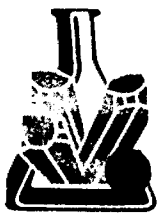
Prepared samples stored: discarded:
rejects stored: discarded:

Methods of analysis:

Remarks

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-0	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	45	5	7	17	3	24	1	34	165	3
6-241	.8	38	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	53	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	53	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	3	28	2	1	16	1	19	35	3

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-37	.4	13	1	1	1	8	3	1	20	2	27	38	21
6-374	.4	16	1	2	3	9	2	1	19	5	27	26	109
6-375	6.9	4	1	18	4	30	3	2	273	6	527	40	3
6-376	1.3	15	1	3	2	8	3	2	36	2	82	27	2
6-377	.8	21	1	4	4	8	3	1	19	2	77	84	22
6-378	.8	19	1	2	2	125	3	2	15	1	35	46	1
6-379	1.3	14	1	27	4	8	18	2	17	1	68	84	3
6-380	1.3	13	1	3	4	8	6	2	19	6	44	59	2
6-381	1.1	5	1	2	4	58	4	2	19	1	32	62	17



**MIN
• EN
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. 7801067 • FAX (604) 980-9621

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

Analytical Report

Company: R. SOMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMEVILLE

File: 82-1366
Date: OCT 10/88
Type: ROCK GEOCHEM

Date Samples Received : OCT 8/88
Samples Submitted by : R. SOMERVILLE

Report on 47 ROCKS Geochem Samples
.....
..... Assay Samples
.....

Copies sent to:

1. R. SOMERVILLE, WEST VANCOUVER, B.C.
2. R. SOMERVILLE, PORCUPINE, ONT.
3. R. SOMERVILLE, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh

Prepared samples stored: X discarded:
rejects stored: discarded:

Methods of analysis:

12 ELEMENT TRACE ICP.
AU - FIRE GEOCHEM.

Remarks

CORRECTED ANTIMONY.

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



**MIN
• EN
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

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLE

File: 82-1385
Date: OCT. 10/88
Type: ROCK GEOCHEM

Date Samples Received : OCT. 5/88
Samples Submitted by : R. SOMMERVILLE

Report on 44 ROCKS..... Geochem Samples
..... Assay Samples

- Copies sent to:
1. R. SOMMERVILLE GEOLOGICAL, VANCOUVER, B.C.
 2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
 3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....

Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:
12 ELEMENT TRACE ICP
AU-FIRE GEOCHEM

Remarks

(VALUES IN PPM)	AS	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR
5285	1.2	33	3	33	15	21	30	5	25	2	52	136
5286	1.3	37	2	24	17	8	25	5	23	2	57	188
5287	1.2	39	3	24	17	9	26	4	27	3	59	159
5288	.8	36	2	17	15	7	25	6	27	2	61	209
5289	.9	36	2	42	14	7	29	5	25	2	68	190
5290	.8	26	1	54	12	9	26	3	26	1	55	144
5291	1.2	38	2	56	15	6	24	5	28	4	58	197
5292	1.1	31	3	37	16	11	34	4	20	3	73	181
5293	.8	33	2	33	12	6	31	4	24	1	63	177
5406	.7	31	2	47	8	28	25	4	23	1	49	217
5407	.5	26	4	15	6	12	32	4	26	1	90	116
5408	.6	31	1	2	6	12	24	3	25	1	112	166
5409	1.1	41	2	38	17	6	21	5	28	2	53	200
5410	.9	33	2	31	11	9	21	4	21	1	63	211
5411	1.1	42	2	24	14	7	25	5	29	3	58	178
5412	1.0	34	2	12	16	9	28	4	26	3	57	208
5413	1.2	38	1	44	18	9	17	5	22	2	47	158
5414	1.3	44	2	23	17	10	24	5	31	4	64	235
5415	1.0	34	2	37	16	8	23	4	29	1	64	206
5416	.8	46	5	32	16	9	24	6	31	4	64	202
5417	.6	29	2	32	8	8	24	3	27	3	63	164
5418	1.0	45	1	48	12	8	19	4	25	1	46	209
5419	1.0	33	2	29	16	7	24	3	27	1	50	192
5420	1.2	43	2	35	17	6	19	5	30	5	66	182
5421	1.1	42	1	13	12	8	23	4	25	3	57	174
5422	1.1	44	3	46	18	7	28	3	25	3	60	183
5423	1.1	34	1	38	16	10	23	3	28	2	84	195
5424	.8	22	2	42	10	7	19	4	27	1	81	171
5425	1.0	39	3	43	14	10	32	3	26	6	180	106
5426	.7	33	1	10	10	8	31	5	28	2	73	166
5427	1.1	30	3	37	14	7	27	4	23	1	43	171
5428	1.1	35	2	11	14	8	21	5	23	1	38	183
5429	1.0	31	1	6	16	10	17	4	22	1	37	217
5430	1.0	34	2	3	14	10	25	4	24	2	53	197
5431	1.1	32	1	4	16	7	22	4	30	1	36	159
5432	1.0	33	2	6	16	7	18	3	27	1	42	191
5433	1.1	52	1	19	17	6	25	3	25	1	33	189
5434	.9	43	1	23	12	6	26	5	24	1	42	203
5435	.9	37	3	35	14	7	31	2	30	2	37	190
5436	1.1	35	1	9	14	7	20	4	25	1	23	187
5437	1.0	29	1	12	16	6	23	3	24	1	100	189
5438	.6	38	1	37	10	48	26	4	20	1	63	168
5439	1.2	33	1	7	16	7	20	4	19	1	20	191
5439	1.1	33	2	41	14	8	23	5	34	2	48	176



**MIN
• EN
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. 7601087 • FAX (604) 980-9621

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

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLE

File: 82-1421
Date: OCT. 15/88
Type: ROCK GEOCHEM

Date Samples Received : OCT. 11/88
Samples Submitted by : R. SOMMERVILLE

Report on 103 ROCKS Geochem Samples
.....
..... Assay Samples
.....

Copies sent to:

1. R. SOMMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....

Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:

12 ELEMENT TRACE ICP
AU-FIRE GEOCHEM
AU-FIRE ASSAY

Remarks



**MIN
• EN
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 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLE

File: 82-1421/P1
Date: OCT. 15/88
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
G 531	0.88*	0.026

*SAMPLE CONTAINS METALLIC GOLD

Certified by

MIN-EN LABORATORIES LTD.

COMPANY: R.SOMMERVILLE GEOLOGICAL
 PROJECT NO: TIMMINS-SHAW
 ATTENTION: R.SOMMERVILLE/H.TITTLLEY

MIN-EN LABS ICP REPORT
 70SWEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
 (604)980-5814 OR (604)988-4524

(ACT:F31) PAGE 1 OF 1
 FILE NO: 82-1421/P1+2
 DATE: OCTOBER 15, 1988

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6440	1.0	28	4	9	13	8	27	5	31	5	68	142	2
6441	1.1	27	4	41	15	9	31	4	28	3	73	150	3
6442	1.3	31	2	5	17	64	18	4	30	3	48	106	2
6443	.9	34	2	19	12	7	26	5	26	2	58	159	7
6444	1.2	40	3	20	18	143	22	5	29	5	48	132	6
6445	1.1	36	2	30	15	9	23	4	24	3	60	165	2
6446	.3	25	2	33	6	8	24	4	27	1	56	113	13
6447	1.1	24	1	22	14	7	17	5	24	1	33	141	2
6448	1.1	35	2	38	14	6	27	5	21	2	128	155	4
6449	1.0	42	2	3	14	8	28	4	28	3	65	160	3
6450	1.0	30	1	16	14	8	26	4	22	1	31	200	1
6451	1.1	40	1	15	15	6	23	4	27	1	29	187	1
6452	.9	35	1	1	13	7	20	4	22	1	21	175	2
6453	1.1	25	1	3	15	6	21	3	30	2	21	204	3
6454	.9	75	2	46	13	7	27	4	19	7	40	847	2
6461	1.0	4	46	4	8	6	15	3	4	1	13	463	2
6462	.8	39	6	31	10	10	36	4	25	4	71	196	5
6463	.9	1	20	20	7	7	9	1	11	1	13	512	1
6464	1.1	28	1	15	14	19	14	5	20	1	13	127	6
6465	.9	35	17	2	7	7	10	1	11	1	26	1560	2
6466	.7	13	1	45	8	6	18	4	22	1	33	169	1
6467	1.0	37	12	55	14	7	26	4	27	2	58	195	2
6468	1.1	34	1	49	14	7	21	4	18	1	25	157	2
6469	.8	37	1	1	12	7	22	5	24	1	21	183	3
6470	.9	28	1	4	13	6	22	4	23	1	26	229	1
6471	1.1	47	1	35	15	9	20	5	21	4	55	183	1
6472	.8	35	1	17	8	7	33	5	23	2	61	187	2
6473	.6	28	2	45	7	74	27	4	27	3	83	189	4
6474	1.1	32	1	35	15	8	20	5	17	1	41	180	6
6475	1.1	32	1	34	16	8	19	6	22	1	28	181	3
6476	.7	28	5	30	6	7	23	5	24	4	42	138	1
6477	1.0	25	3	33	12	7	23	5	19	1	47	172	1
6478	.6	25	2	21	6	6	25	5	23	1	45	157	2
6479	1.2	48	3	5	15	9	28	4	22	3	61	202	1
6480	1.0	25	2	31	14	8	25	4	26	3	62	148	3
6481	.9	36	1	10	12	6	23	4	21	1	50	173	2
6482	.6	17	1	1	9	6	16	4	22	1	48	124	2
6483	.5	14	1	4	8	7	19	3	21	1	47	121	1
6484	.7	23	1	3	8	6	17	4	21	1	23	143	2
6485	.6	16	3	1	8	9	33	4	26	3	243	155	1
6486	.5	22	2	1	6	7	33	3	23	3	110	136	1
6487	.5	5	2	21	8	52	26	3	23	1	185	117	2
6488	.3	6	4	4	3	10	21	3	16	2	54	124	4
6489	.6	32	3	1	8	11	51	4	25	5	98	140	3
6490	.5	20	1	2	7	7	18	4	20	1	23	126	3
6491	1.0	25	1	1	14	7	17	4	19	1	27	147	6
6492	1.2	10	2	1	21	7	21	3	19	1	37	132	2
6493	1.1	34	1	16	15	289	17	5	23	1	19	132	2
6494	.7	27	2	27	7	27	22	4	24	1	54	150	1
6495	1.1	35	1	11	15	9	16	5	28	1	52	177	2
6496	1.0	44	2	12	16	7	25	5	25	3	35	151	1
6497	.7	35	5	3	9	8	65	4	23	10	125	174	1
6498	.9	41	2	30	11	9	34	5	26	4	108	184	3
6499	.6	39	2	18	7	9	37	4	25	3	91	161	2
6500	.8	39	1	10	9	9	24	4	24	2	65	198	2
6501	.7	97	2	1	6	11	19	3	22	4	51	1313	1
6502	.8	52	1	79	6	7	12	2	11	1	22	1028	2
6503	.6	31	1	21	6	7	23	4	24	1	40	165	2
6504	.6	33	1	28	7	7	32	4	29	2	62	172	1
6505	.7	33	2	24	7	6	34	4	28	4	73	178	2



**MIN
EN
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

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITILEY

File: 82-1424
Date: OCT. 15/88
Type: ROCK GEOCHEM

Date Samples Received : OCT. 12/88
Samples Submitted by : R. SOMMERVILLE

Report on 41 ROCKS..... Geochem Samples
..... Assay Samples

Copies sent to:

1. R. SOMMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....

Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:

AU-FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6500	.9	18	4	36	12	9	33	5	30	10	60	143	1
6507	.7	26	13	9	6	6	38	5	34	8	55	176	1
6508	.5	14	2	13	6	10	34	5	32	4	58	123	2
6509	.7	30	2	14	8	7	36	4	30	6	67	170	1
6519	.8	93	61	2	7	7	7	2	9	4	13	748	3
6520	.8	157	91	2	5	6	6	2	6	4	13	731	1
6521	.8	1	25	1	7	6	6	1	16	1	10	501	2
6522	.9	11	33	2	7	7	13	1	19	1	10	513	4
6523	.6	44	1	34	6	22	16	5	36	2	70	119	2
6524	.8	32	18	2	6	7	6	1	17	1	15	934	1
6525	.8	53	18	1	7	7	6	2	14	1	19	1161	1
6526	.9	201	36	2	7	6	11	1	8	2	68	3800	1
6527	.8	8	23	1	5	6	6	1	17	1	15	1093	1
6528	.8	95	77	2	7	7	6	1	15	3	11	778	1
6529	.8	76	30	1	6	6	6	2	8	2	25	1695	3
6530	.8	60	41	1	6	7	6	1	16	2	16	1203	2
6531	.9	121	121	2	6	7	6	1	14	2	16	1157	1150
6532	.9	111	69	1	6	7	6	2	14	2	20	1283	4
6533	1.1	37	3	16	16	11	26	4	32	7	62	137	1
6534	.6	30	1	3	5	7	19	4	27	3	22	166	1
6539	.4	18	1	12	6	6	30	5	29	4	54	150	2
6543	.9	75	6	24	12	141	36	12	58	11	170	110	1
6544	.6	24	1	62	7	31	26	5	28	4	86	107	3
6574	.3	7	1	49	6	16	26	4	27	3	85	93	1
6575	.2	8	9	1	3	7	6	1	18	1	20	36	1
6577	.1	15	1	2	2	7	6	2	21	1	14	83	1
6578	.3	1	1	2	5	6	7	2	11	1	15	128	1
6579	.4	1	1	1	7	8	7	2	18	1	47	189	2
6580	.1	9	1	1	2	7	6	3	9	2	29	49	1
6581	.5	23	1	16	6	33	32	5	28	5	112	96	3
6582	.4	1	1	1	5	6	9	3	15	1	18	171	2
6583	.1	26	3	2	6	8	18	4	11	1	56	60	1
6588	.5	23	3	21	6	20	29	5	24	2	50	146	1
6591	.5	26	2	22	6	7	34	4	22	3	65	176	1
6593	.3	12	2	20	6	10	32	5	26	1	63	137	2
6594	.5	23	1	10	5	7	28	5	20	1	49	151	1
6595	.5	23	2	33	6	6	26	4	25	1	65	137	2
6596	.7	34	1	43	7	7	24	5	23	2	29	180	4
6597	.8	30	1	3	12	8	28	3	25	4	42	192	3
6599	.6	22	1	3	6	7	20	5	26	1	23	224	2
6600	.6	34	1	19	6	9	28	5	27	4	55	201	2
6601	.4	16	1	19	6	6	15	4	21	1	26	136	3
6455	1.2	32	1	6	16	7	22	4	21	1	25	192	2



**MIN
EN
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

Analytical Report

Company: SOMMERVILLE GEOLOGICAL MANAGEMENT
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. Z. TITTLE

File: 82-1442
Date: OCT 17/88
Type: ROCK GEOCHEM

Date Samples Received : OCT 14/88
Samples Submitted by : R. SOMMERVILLE

Report on 60 ROCKS..... Geochem Samples
.....
..... Assay Samples
.....

Copies sent to:

1. SOMMERVILLE GEOLOGICAL MANAGEMENT, WEST VANCOUVER, B.C.
2. SOMMERVILLE GEOLOGICAL MANAGEMENT, PORCUPINE, ONT.
3. SOMMERVILLE GEOLOGICAL MANAGEMENT, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh-100....

Prepared samples stored:X.... discarded:.....
rejects stored:X.... discarded:.....

Methods of analysis:

AU FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
P-01	1.2	26	1	12	5	8	7	5	16	5	14	202	6
P-02	.2	17	1	2	2	10	8	3	15	1	97	95	2
P-03	.5	27	1	14	5	7	9	2	16	1	35	133	4
P-04	1.2	24	1	10	5	6	8	5	13	5	18	147	8
P-05	1.2	19	1	4	5	7	7	4	12	3	15	166	2
P-06	1.4	59	1	6	6	7	11	6	22	9	74	507	1
P-07	1.1	9	1	3	5	8	7	3	9	3	15	142	1
P-08	1.1	22	1	15	5	7	8	3	11	1	61	170	1
P-09	.8	34	3	16	4	18	23	3	19	7	61	116	4
P-10	1.1	1	1	29	6	96	8	1	8	5	20	220	2
P-11	1.3	12	1	11	6	7	8	3	13	3	14	162	1
P-12	.4	1	1	1	3	9	7	1	18	7	23	122	1
P-13	.3	7	1	2	4	6	7	1	16	4	22	104	2
P-14	.9	17	1	5	5	7	7	3	18	2	19	219	1
P-15	1.5	42	1	4	6	8	13	6	20	9	37	183	1
P-16	1.1	9	1	3	6	11	7	2	20	1	15	215	3
P-17	1.5	44	1	6	7	8	8	5	18	8	27	235	2
P-18	.6	17	1	12	5	7	8	1	20	2	23	173	660
P-19	.3	41	1	1	2	6	7	1	12	1	20	109	3
P-20	.3	33	1	1	3	8	7	2	24	1	15	165	1
P-21	.3	1	1	15	3	6	7	1	10	1	14	125	2
P-22	.4	22	1	20	4	9	18	1	27	7	40	144	2
P-23	.8	15	2	43	6	13	17	4	20	3	40	290	1
P-24	.3	13	2	24	4	202	11	3	10	4	39	151	1
P-25	.2	11	1	37	5	9	9	2	17	5	26	89	2
P-26	.6	25	1	7	3	8	8	2	8	6	47	130	1
P-27	1.7	1	1	4	5	8	7	1	8	1	18	107	3
P-28	.5	12	1	2	5	11	8	2	9	4	34	154	60
P-29	.6	1	1	3	5	7	7	1	9	4	19	166	2
P-30	.7	18	1	8	5	7	8	1	8	1	18	151	1
P-31	1.5	1	1	3	4	10	8	2	6	6	17	109	4
P-32	.8	5	1	3	3	8	7	1	14	1	21	107	1
P-33	1.1	35	1	1	5	7	9	2	16	4	26	371	1
P-34	.8	3	1	1	5	7	7	1	13	4	15	93	2
P-35	.6	2	1	2	4	7	7	2	11	5	19	98	3
P-36	.7	27	1	1	5	10	9	1	5	6	22	230	43
P-37	.4	31	1	1	2	9	7	2	8	13	16	127	2
P-38	.8	21	1	2	5	10	7	2	5	5	17	226	1
P-39	.5	1	1	3	4	7	7	1	13	3	18	101	2
P-40	.5	18	1	4	4	9	11	2	8	8	36	151	1
P-41	.3	33	1	3	2	7	8	1	21	4	23	92	1



**MIN
• EN
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. 7801067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 284-9996

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLE

File: 82-1466
Date: OCT. 22/88
Type: ROCK GEOCHEM

Date Samples Received : OCT. 17/88
Samples Submitted by : R. SOMMERVILLE

Report on 156 ROCKS..... Geochem Samples
..... Assay Samples

Copies sent to:

1. R. SOMMERVILLE GEOLOGICAL, VANCOUVER, B.C.
2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh-100.....

Prepared samples stored:.....X..... discarded:.....
rejects stored:.....X..... discarded:.....

Methods of analysis:

AU-FIRE GEOCHEM
12 ELEMENT TRACE ICP
AU-FIRE ASSAY

Remarks

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
P041	1.2	14	1	72	6	7	17	1	20	2	36	98	2
P043	.3	19	1	23	3	6	6	3	8	2	30	57	3
P044	.5	41	1	13	4	7	15	1	18	1	49	84	1
P045	.3	19	1	2	4	8	9	2	16	3	13	90	1
P046	.9	8	2	16	5	6	11	1	17	1	23	110	2
P047	.3	1	1	3	3	7	5	2	24	1	8	51	1
P048	.3	17	1	1	4	7	6	3	15	3	15	58	1
P049	1.0	17	1	1	4	6	6	1	13	2	11	66	2
P050	.4	11	1	3	4	7	5	3	19	5	12	85	1
P051	.7	9	1	31	5	7	7	2	11	1	18	108	1
P052	.3	55	1	1	3	8	5	3	14	1	13	81	2
P053	.6	13	1	17	4	10	11	3	20	4	38	148	3
P054	.2	33	1	56	4	9	7	1	23	5	49	161	2
P055	.9	30	1	9	4	8	5	4	16	1	14	273	1
P056	.8	20	1	11	4	11	6	2	13	1	23	168	1
P057	1.0	11	1	3	5	20	5	8	10	1	31	164	2
P058	.7	1	1	4	4	9	5	2	9	2	18	198	4
P059	.8	10	1	12	5	8	6	3	9	2	21	156	1
P060	.5	15	1	5	4	10	5	2	13	2	17	138	1
P061	1.1	30	1	4	5	8	6	4	20	2	16	308	2
P062	1.0	21	1	4	5	7	5	4	13	1	13	172	2
P063	.8	2	1	4	4	9	6	1	12	2	19	239	1
P064	.9	1	1	6	4	6	6	2	13	1	27	120	1
P065	.9	16	1	20	4	8	5	5	13	1	12	157	3
P066	.7	17	1	14	4	8	5	1	10	3	26	118	2
P067	.8	38	1	12	5	10	11	3	22	4	46	250	1
P068	.5	4	1	11	4	12	6	1	10	2	22	127	3
P069	.6	5	1	2	5	13	5	1	10	3	16	198	2
P070	1.1	33	1	3	4	11	5	4	13	3	11	236	1
P071	.5	14	1	4	4	10	10	1	19	1	19	128	2
P072	.5	9	1	6	4	14	6	2	11	3	22	54	3
P073	.3	2	1	2	4	10	5	1	13	1	14	55	6
P074	.7	8	1	3	4	7	6	2	9	1	17	112	3
P075	.5	9	1	1	4	12	5	1	13	2	20	117	1
P076	.4	18	1	1	4	12	5	2	23	4	23	126	2
P077	.3	40	3	13	3	8	13	2	7	1	52	88	2
P078	.4	2	1	1	4	9	5	1	11	1	20	121	1
P079	.8	10	1	2	5	7	5	1	14	1	18	207	2
P080	.5	4	1	4	5	6	6	2	19	4	31	435	3
P081	.6	9	1	1	4	10	5	1	8	2	19	92	2
P082	.2	16	1	3	4	6	5	2	8	3	22	118	3
P083	.7	1	1	2	5	12	7	1	6	5	21	122	3
P084	.8	10	1	13	6	50	6	1	6	1	16	173	1
P085	.7	1	1	4	5	6	7	1	12	1	22	111	2
P086	.3	1	1	1	4	11	5	1	7	1	14	75	2
P087	.3	1	1	4	4	10	5	2	13	1	14	54	6
P088	.1	19	1	2	5	7	6	3	16	2	27	98	3
P089	1.2	17	1	9	6	124	11	2	15	4	37	127	1
P090	.1	34	1	2	2	7	5	2	7	6	18	92	2
P091	.3	1	1	1	4	20	6	1	16	2	33	75	4
P092	.3	29	1	1	2	8	5	1	19	1	26	91	1
P093	.4	15	1	232	3	9	7	1	16	1	30	116	1
P094	.9	26	1	6	6	6	6	4	11	5	25	135	2
P095	.6	1	1	11	4	8	7	2	12	1	21	111	1
P096	.4	6	1	1	4	12	5	1	13	2	21	96	2
P097	.8	9	1	11	5	13	5	4	8	1	12	102	5
P098	.6	50	2	5	4	15	12	2	10	1	48	99	3
P099	.6	16	1	6	4	6	6	1	7	1	18	84	4
P100	.6	10	1	2	4	8	5	1	6	3	15	64	2
P101	.6	20	1	3	5	6	7	1	11	1	29	60	1



**MIN
• EN
LABORATORIES LTD.**

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
705 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (804) 980-5814 OR (804) 988-4524
TELEX: VIA U.S.A. 7801067 • FAX (804) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Certificate of ASSAY

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLE

File: 82-1466/P1
Date: OCT. 22/88
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
G 76B	1.34	0.039

Certified by _____

[Handwritten Signature]
MIN-EN LABORATORIES LTD.

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
647B	.3	1	1	1	2	12	3	2	11	1	19	118	3
648B	.3	1	1	2	2	6	3	2	12	1	27	183	5
649B	.3	7	1	1	3	9	3	3	24	1	23	264	2
650B	.6	14	1	27	5	8	20	3	24	1	59	110	1
651B	1.2	24	1	27	15	7	13	3	25	2	63	152	2
652B	1.1	26	1	66	12	21	17	4	28	2	61	90	4
653B	.8	20	1	39	6	20	25	3	25	1	69	129	2
654B	.9	1	3	6	6	117	22	1	61	1	114	133	10
655B	.7	1	1	2	3	9	4	1	20	1	17	252	2
656B	.7	181	1	1	6	7	11	2	14	3	54	1678	1
657B	.7	21	1	3	4	23	4	5	16	1	14	364	3
658B	.8	203	1	3	6	9	8	1	11	3	62	1791	2
659B	.3	30	1	2	1	8	3	2	10	1	33	128	1
660B	.3	1	1	3	1	8	3	1	7	1	19	250	1
661B	.7	1	1	36	5	7	12	2	19	1	56	90	1
662B	.5	4	1	16	5	6	17	1	20	1	53	70	3
663B	.6	2	1	21	6	8	25	2	22	1	50	72	4
664B	.7	1	1	25	6	7	17	2	16	1	56	84	1
665B	.7	12	1	24	6	7	21	2	21	1	61	93	2
666B	.7	19	1	25	6	8	25	2	20	2	73	72	2
667B	.7	19	1	30	6	26	23	2	27	2	65	92	1
669B	.5	93	1	1	6	6	13	2	16	4	58	1302	1
671B	.6	1	1	7	7	1031	7	1	22	1	40	164	3
672B	.6	94	1	5	6	10	11	3	17	2	37	1238	2
673B	.8	12	1	37	5	6	21	4	23	1	35	169	5
674B	.5	24	1	1	5	87	15	3	16	1	40	540	2
675B	.3	1	1	172	4	7	3	1	18	1	13	404	4
676B	.4	30	1	1	1	9	5	3	5	1	17	160	1050
677B	.5	78	1	1	7	7	11	3	21	4	40	1022	16
678B	.8	149	1	1	6	70	8	2	20	1	58	2056	6
6079B	.4	87	1	1	5	10	8	1	21	3	45	1145	2
6080B	.4	1	1	30	4	6	17	3	26	1	58	106	1
6081B	.9	18	1	56	10	21	18	3	24	1	46	105	1
6083B	1.0	19	1	69	14	9	17	4	26	2	59	122	3
6089B	.6	15	1	62	4	49	15	3	25	1	172	81	2
6091B	.4	99	1	6	6	9	32	3	23	3	99	982	4
6093B	.5	68	1	1	7	6	42	1	11	5	58	969	2
6098B	1.0	81	1	1	11	74	15	2	28	5	53	993	1
6099B	.9	91	1	14	11	41	15	3	22	4	51	1025	1
6100B	.6	89	1	1	6	23	15	2	19	3	53	1140	1
6101B	.6	110	1	1	6	25	16	2	20	4	46	1299	3
6102B	.6	77	1	1	5	15	13	3	21	2	41	990	3
6104B	.6	96	1	1	6	8	21	1	11	5	54	1221	2
6105B	.6	98	1	1	6	10	14	2	22	3	51	1215	1
6106B	.5	79	1	1	5	39	14	3	20	2	39	1076	1
6107B	.6	85	1	1	5	8	17	1	15	2	61	1162	1
6108B	.5	80	1	1	5	25	14	3	21	1	34	1060	3
6109B	.5	117	1	1	6	8	17	2	17	5	59	1440	2
6110B	.5	107	1	1	7	25	15	2	19	4	58	1263	1
6111B	.6	89	1	1	6	6	16	3	20	5	51	1209	1
6112B	.6	106	1	1	7	7	15	2	23	5	50	1325	1
6114B	.7	103	1	1	7	26	17	2	21	6	67	1264	2
6115B	1.0	129	1	2	12	31	20	3	23	6	58	1436	3
6116B	.8	86	1	1	11	9	16	3	26	4	49	965	4
6117B	1.0	98	6	1	13	34	16	2	22	5	53	1042	1
6118B	1.0	105	1	1	13	8	18	2	17	6	62	1223	2
6119B	.6	79	1	1	8	23	15	3	24	6	50	979	1
6120B	1.0	116	1	2	12	17	16	3	22	6	56	1357	1
6121B	.8	91	1	1	10	9	15	2	26	6	56	1152	3
6122B	.6	77	2	1	7	7	14	1	12	3	61	1158	2

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
61	.8	82	1	1	5	12	13	3	22	1	40	749	1
61248	.5	2	1	1	4	12	5	2	10	1	30	247	3
6152B	.4	1	1	5	3	8	4	3	10	1	34	227	4
6456	1.0	19	41	2	7	7	12	1	14	2	20	335	1
6457	1.0	42	15	2	6	7	6	2	12	1	23	1033	2
6458	1.1	53	7	5	9	6	6	1	10	4	29	1148	1
6459	1.1	15	21	196	6	7	6	1	12	2	25	760	3
6460	1.0	80	8	8	8	18	6	2	14	5	36	1028	1
6545	1.0	38	1	45	10	6	16	3	29	2	47	150	2
6546	1.2	46	1	15	13	8	18	4	30	3	60	198	1
6547	.7	34	1	9	5	8	12	3	28	2	56	179	1
6548	1.0	37	3	28	10	35	37	3	30	4	86	162	2
6549	.7	22	1	31	5	100	19	3	22	2	71	70	1
6550	.8	21	1	17	8	10	27	2	22	1	55	82	4
6551	.7	24	1	40	6	9	27	2	22	3	51	138	2
6552	.6	24	1	31	6	10	25	2	20	4	56	81	5
6553	.6	30	1	8	6	6	36	3	32	4	71	150	2
6554	.7	15	1	45	5	41	13	3	23	1	69	65	4
6555	.7	18	1	38	6	42	16	2	24	1	67	68	1
6556A	.7	19	1	24	6	45	28	1	23	4	152	86	6
6556B	.4	9	1	1	2	8	4	2	17	1	17	113	7
6557	.8	19	1	27	5	101	17	2	24	1	87	80	1
6558	.8	26	1	24	6	41	28	3	25	1	74	105	2
6559	.4	1	1	2	3	9	4	2	7	1	21	62	1
6560	.3	1	1	3	1	7	3	1	23	1	15	110	1
6561	.3	14	1	1	1	8	3	4	9	9	9	46	2
6562	.4	17	1	1	1	9	4	4	18	1	10	61	3
6563	.3	1	8	2	1	7	4	1	24	1	16	65	2
6564	.3	1	5	5	2	7	4	1	14	1	14	45	1
6565	.4	3	1	2	3	23	3	1	10	1	16	95	4
6567	.3	2	1	3	6	8	3	4	33	1	10	27	4
6568	.2	10	2	4	2	8	3	1	20	1	13	25	3
6569	.3	27	1	5	1	27	4	2	7	1	16	52	6
6571A	1.0	17	4	4	12	7	31	5	20	3	69	163	4
6571B	.4	9	3	2	4	7	11	3	10	1	32	35	5
6572	.3	7	4	2	3	6	4	5	26	1	12	19	2
6573	.4	11	1	2	1	7	4	1	14	1	9	23	2
6602	.3	1	1	3	2	10	5	1	8	1	27	133	3
6603	.7	10	1	27	4	7	28	2	24	1	34	89	7
6604	.6	26	1	2	5	69	29	2	24	2	34	94	2
6605	.6	4	1	37	5	8	20	3	21	1	46	74	1
6606	.7	21	1	97	5	36	31	4	27	3	72	69	6
6607	.6	13	1	54	5	6	24	3	23	2	60	77	1
6608	.7	18	1	45	5	6	26	4	27	3	67	89	4
6609	.4	1	3	1	5	10	36	4	17	1	258	76	10
6610	.5	7	2	27	5	8	37	2	23	1	69	78	2
6611	.4	22	1	3	1	8	5	5	11	1	21	89	1
6612	.5	10	3	7	5	6	55	1	21	4	115	76	3
6613	.6	6	2	29	5	11	29	2	20	2	58	71	5
6614	.4	1	1	4	7	7	4	2	7	1	18	30	2
6615	.6	17	1	12	6	8	38	2	31	5	73	161	4
6616	.6	20	1	16	5	7	27	2	28	4	66	125	1
6617	1.1	28	2	17	13	16	37	5	28	5	54	164	5
6618	.6	17	2	9	6	8	43	1	27	5	81	147	6
6619	.3	1	1	1	1	7	4	2	12	1	21	90	3
6626	.5	6	1	42	5	9	16	2	22	2	49	58	1
6627	.5	1	1	15	5	11	14	1	18	1	38	83	2
6634	.3	1	1	1	3	10	4	2	14	1	17	138	2
6635	.5	8	2	29	5	7	35	2	25	4	62	92	4
6636	.8	21	1	4	9	6	23	2	27	3	40	103	2

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6637	.9	98	4	1	6	7	15	1	5	2	51	1276	4
6638	.7	1	1	36	4	6	16	3	17	1	31	77	3
6639	.7	8	1	45	4	7	17	3	16	1	37	102	1
6643	.7	11	1	50	4	6	16	3	17	1	29	98	1
6649	.7	1	1	31	3	13	10	4	17	1	37	85	5
6650	.7	2	1	38	4	7	13	4	17	1	47	76	22
6651	.7	4	1	27	4	7	12	3	19	1	39	87	3
6652	1.7	15	5	44	23	155	14	3	26	6	68	57	2
6653	.7	4	1	55	4	10	18	3	21	1	97	101	2
6690	.7	4	1	68	4	7	12	4	17	1	24	79	1
6691	.9	11	1	61	7	6	17	4	14	1	38	142	2
6692	.7	5	1	36	4	6	16	4	14	1	44	117	5
6700	.3	13	1	1	5	128	15	2	29	1	58	329	6
6701	.8	120	1	1	6	9	20	3	19	5	56	1581	1
6702	.9	105	2	1	7	10	18	3	16	4	52	1450	4
6703	.5	82	1	1	5	6	11	1	17	5	51	1245	5
6704	.8	107	1	1	6	66	13	1	8	4	55	1458	2
6705	.3	79	1	2	6	29	32	3	27	3	74	919	1
6706	.8	137	2	1	7	10	28	1	13	5	68	1466	1
6707	.5	177	1	1	7	13	49	3	26	7	102	1829	4
6708	.5	123	1	47	7	24	18	3	28	4	47	1394	2
6709	.9	116	3	1	7	22	24	1	20	6	63	1711	9
6710	.8	92	1	1	6	16	15	1	19	2	48	1257	3
6711	.8	173	2	2	7	8	20	1	10	7	64	2205	2
6712	.7	83	1	1	6	21	19	1	10	4	49	1219	3
6713	.8	69	1	1	6	9	20	3	12	3	45	1174	2
6714	.7	75	1	1	6	12	13	2	11	2	40	1066	8
6715	.9	122	1	1	6	32	25	3	15	4	56	1601	4
6716	.7	60	1	1	5	9	13	1	10	3	50	1134	6
6717	.3	59	1	1	6	8	20	4	25	2	87	713	5
6718	.4	59	3	5	8	9	36	4	24	13	126	901	3
6719	.7	85	1	1	6	23	17	1	9	4	50	1290	1
6720	.7	54	1	1	5	24	14	1	17	2	42	1033	1
6858	.5	13	1	96	6	17	18	4	20	1	132	202	3
6868	.6	21	1	96	6	6	24	4	22	4	73	177	2
6878	1.2	39	1	5	15	19	19	4	21	6	50	252	3



**MIN
• EN
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. 7801087 • FAX (604) 980-9821

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 284-9996

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLE

File: 82-1467
Date: OCT. 22/88
Type: ROCK GEOCHEM

Date Samples Received : OCT. 18/88
Samples Submitted by : R. SOMMERVILLE

Report on 58 ROCKS Geochem Samples
.....
..... Assay Samples
.....

- Copies sent to:
1. R. SOMMERVILLE GEOLOGICAL, VANCOUVER, B.C.
 2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
 3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....

Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:

- AU-FIRE GEOCHEM
- AG CU PB ZN MO-MULTI ACID A.A.
- AU-FIRE ASSAY
- 12 ELEMENT TRACE ICP

Remarks

PROJECT NO: TIMMINS-SHAM

705 WEST 15TH ST. NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 82-1467/P1+2

ATTENTION: R. SOMMERVILLE/H. TITILEY

1604)980-5814 OR 1604)988-4324

TYPE ROCK GEOCHEM

DATE: OCTOBER 22, 1988

(VALUES IN PPM)	AS	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
P103	1.3	17	1	2	4	27	4	3	13	2	17	121	18
P103	.6	25	2	1	3	7	3	2	8	1	13	68	4
P104	.5	30	1	10	2	6	3	2	11	1	19	90	6
P105	.4	36	3	7	1	7	3	2	23	5	17	77	3
P106	.2	1	3	1	1	8	3	3	24	5	15	76	7
P107	.9	15	2	6	3	10	4	1	15	1	26	82	3
P108	.3	29	1	2	2	6	3	1	22	5	14	62	2
P109	.8	14	3	2	4	6	4	1	18	1	23	121	6
P110	.4	2	1	2	3	7	3	1	15	4	13	85	14
P111	.2	1	2	1	1	7	4	1	26	6	19	108	4
P112	.4	3	3	1	2	7	7	1	13	8	21	48	23
P113	.6	5	1	5	2	9	4	2	10	1	17	66	27
P114	.6	30	1	9	3	7	4	2	9	1	17	86	31
P115	1.4	26	1	2	4	12	4	4	13	3	11	224	18
P116	.8	11	1	3	3	7	4	2	11	1	16	102	5
P117	.8	14	1	2	3	10	7	2	9	1	18	97	11
P118	.8	18	1	3	4	6	4	1	19	1	12	98	4
P119	.5	1	3	11	2	7	4	1	10	1	22	73	28
P120	.9	21	5	9	4	8	4	1	14	2	18	62	10
P121	.6	10	1	1	4	8	3	2	16	1	14	154	7
P122	.1	45	1	1	4	7	4	3	29	7	15	56	17
P123	1.2	10	1	5	5	14	6	1	19	1	14	80	3
P124	.2	34	1	3	1	12	3	1	7	6	15	60	6
P125	.6	14	1	2	4	8	4	2	12	1	15	117	4
P126	1.0	1	1	4	4	11	4	1	10	2	20	77	2
P127	.5	4	1	1	3	12	4	1	14	1	22	55	5
P128	.7	8	1	1	3	7	4	1	17	1	20	75	3
P129	.2	2	1	2	1	7	4	2	19	1	30	73	4
P130	.4	7	1	2	3	8	4	1	19	1	23	55	17
P131	.3	11	1	5	4	7	4	1	13	1	31	84	19
P132	.9	5	1	8	4	45	19	1	49	1	42	85	21
P133	1.1	9	1	136	5	24	27	1	15	1	78	80	18
P134	.4	5	1	5	3	9	4	1	12	1	26	85	20
P135	.5	1	1	5	3	7	4	1	18	1	34	50	6
P136	.6	14	1	2	3	7	4	1	9	1	31	98	18
P137	.8	15	1	2	3	7	4	1	16	1	22	50	19
P138	.6	8	1	2	4	7	4	1	15	1	27	72	20
P139	.7	1	1	1	3	8	4	1	8	1	22	76	22
P140	.9	4	1	3	4	7	4	1	9	1	16	118	18
P141	.6	13	1	3	4	7	4	1	8	1	23	108	19
P142	.4	6	1	1	3	8	4	2	8	1	20	73	3
P143	.4	1	1	1	2	12	3	3	9	1	23	64	1
P144	1.3	31	1	2	4	77	4	4	12	2	11	223	4
P145	.4	30	1	1	4	7	4	3	22	4	18	34	4
P146	.1	25	1	1	4	6	4	2	24	2	23	46	8
P147	.2	4	1	6	2	6	4	1	15	1	17	32	6
P148	.5	1	1	5	4	8	7	1	16	3	22	66	2
P149	.3	33	1	10	1	8	4	3	22	4	18	40	19
P150	1.3	14	1	2	5	58	7	3	14	2	133	102	18
P151	.9	1	1	7	3	9	4	1	14	1	17	56	3
P152	1.0	2	1	3	4	12	4	1	14	1	21	67	2
P153	1.3	21	1	6	4	6	4	3	12	2	13	145	2
P154	.1	13	1	1	2	6	4	1	22	2	22	85	8
P155	1.0	17	1	6	5	27	24	1	18	3	34	72	5
P156	1.3	19	1	8	4	7	5	3	40	2	47	110	1



**MIN
• EN
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) 264-9998

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLLEY

File: 82-1484
Date: OCT. 22/88
Type: ROCK GEOCHEM

Date Samples Received : OCT. 19/88
Samples Submitted by : R. SOMMERVILLE

Report on 12 ROCKS..... Geochem Samples
..... Assay Samples
.....

Copies sent to:

1. R. SOMMERVILLE GEOLOGICAL, VANCOUVER, B.C.
2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....

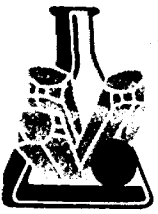
Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:

AU-FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
P157	1.2	3	1	4	5	11	7	1	18	2	39	136	3
P158	.9	1	1	11	3	7	4	1	9	1	22	55	1
P159	.1	23	3	7	5	6	5	2	8	6	25	42	2
P160	.3	7	1	2	4	7	4	2	19	1	13	60	19
P161	.5	38	8	5	3	8	4	2	14	8	26	89	21
P162	1.4	19	1	3	5	9	5	3	13	2	19	152	18
P163	1.3	16	1	9	4	7	7	2	14	2	21	128	1
P164	1.0	15	3	3	4	9	5	1	8	1	25	76	16
P165	.4	23	1	1	5	7	5	2	18	2	17	65	23
P166	.9	19	13	5	3	8	5	1	15	3	29	86	42
P167	1.0	19	8	6	4	8	4	2	9	2	26	90	11
P168	1.6	15	1	7	4	9	4	3	20	1	23	86	2



**MIN
• EN
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. 7601087 • FAX (604) 980-9621

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

Analytical Report

Company: R.SOMERVILLE GEOLOGICAL
Project: TIMMINS SHAW
Attention: R.SOMERVILLE/H.TITILEY

File: 82-1495
Date: OCT 24/88
Type: ROCK GEOCHEM

Date Samples Received : OCT 22/88
Samples Submitted by : R.SOMERVILLE/H.TITILEY

Report on 37 ROCKS Geochem Samples
.....
..... Assay Samples
.....

- Copies sent to:
1. R.SOMERVILLE, WEST VANCOUVER, B.C.
 2. H.TITILEY, PORCUPINE, ONT.
 3. R.SOMERVILLE, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100....

Prepared samples stored: X discarded:
rejects stored: discarded: X

Methods of analysis:

12 ELEMENT TRACE ICP.
AU - FIRE GEOCHEM.

Remarks

(VALUES IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
P-170A	.3	1	2	3	3	8	5	3	12	1	38	96	10
P-170B	.4	9	2	2	3	8	6	1	12	1	36	95	3
P-172	.1	21	2	4	4	6	5	4	24	4	26	80	1
P-173	.6	17	1	2	3	7	5	1	12	1	21	126	2
P-174	1.3	20	1	3	5	6	5	4	17	3	25	189	1
P-175	.3	30	1	1	3	10	5	1	7	1	37	99	1
P-176	.4	10	21	3	4	14	5	1	40	2	33	60	2
P-177	1.0	8	1	20	5	7	5	1	16	1	19	70	1
P-178	.1	4	23	3	4	7	5	2	25	2	14	87	3
P-179	1.2	22	1	29	6	6	10	2	30	5	38	94	2
P-180	.3	35	19	3	3	6	5	2	22	1	21	86	3
P-181	.5	4	22	4	4	6	5	1	12	1	24	90	1
P-182	1.3	13	7	29	5	6	5	5	17	2	22	82	2
P-183	.6	14	30	1	4	7	5	2	8	1	149	71	2
P-184	.3	14	14	52	1	9	5	1	28	4	45	84	3
P-185	1.1	5	2	5	5	6	5	3	25	2	16	77	2
P-186	1.0	1	1	10	5	6	5	1	11	1	26	99	65
P-187	.3	7	1	6	4	7	5	1	12	1	9	46	4
P-188	.1	19	3	1	5	9	5	1	22	1	54	28	3
P-189	.4	44	2	3	3	8	5	2	13	7	19	120	1
P-190	1.2	1	1	4	5	7	5	2	13	1	31	67	2
P-191	.4	51	3	1	4	15	22	1	60	5	49	51	1
P-192	.8	1	1	1	4	12	5	1	11	1	15	95	1
P-193	.4	9	1	4	3	11	5	3	22	1	23	43	2
P-194	1.6	13	1	8	5	33	5	3	10	1	14	103	2
P-195	1.1	25	1	1	5	11	9	2	23	5	23	82	3
P-196	.9	14	1	2	3	8	5	2	14	1	12	121	1
P-197	.8	15	1	2	4	11	5	1	12	1	13	74	2
P-198	.2	70	6	2	2	10	29	3	43	5	44	69	1
P-199	1.6	35	1	9	5	12	5	5	14	4	9	125	3
P-200	.6	2	1	3	3	7	6	1	21	2	36	91	2
P-201	1.0	22	5	6	6	10	23	1	26	6	52	81	1
P-202	.8	2	4	42	4	15	18	2	11	9	74	82	2
P-203	1.3	11	1	3	5	10	8	3	18	2	37	77	3
P-204	1.4	27	1	6	5	9	5	5	14	3	14	111	2
P-205	1.2	33	1	4	5	6	5	4	15	1	31	188	2
P-205	.2	62	4	1	5	10	7	4	24	4	39	91	1



**MIN
• EN
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. 7801067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 284-9996

Analytical Report

Company: R.SOMERVILLE GEOLOGICAL
Project: TIMMINS SHAW
Attention: R.SOMERVILLE/H.TITILEY

File: 82-1496
Date: OCT 24/88
Type: ROCK GEOCHEM

Date Samples Received : OCT 22/88
Samples Submitted by : R.SOMERVILLE/H.TITILEY

Report on 55 ROCKS Geochem Samples
.....
..... Assay Samples
.....

Copies sent to:

1. R.SOMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
2. H.TITILEY, PORCUPINE, ONT.
3. R.SOMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100....

Prepared samples stored: X discarded:
rejects stored: discarded: X

Methods of analysis:

12 ELEMENT TRACE ICP.
AU - FIRE.

Remarks

(VALUES IN PPM)	AS	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6-645	.6	1	1	44	5	7	16	4	22	1	29	78	3
6-646	.6	12	1	76	5	8	12	4	12	1	58	98	2
6-647	.8	6	1	58	7	7	13	5	17	1	45	90	3
6-648	.7	6	1	44	5	7	12	4	8	1	50	100	1
6-648	.6	7	1	49	5	7	13	4	15	1	101	78	1
6-654	.6	11	1	47	5	6	16	4	14	1	61	98	1
6-655	.6	4	1	35	5	7	14	4	17	1	58	63	2
6-669	.5	12	3	4	6	7	25	4	27	4	53	143	1
6-670	.3	14	5	2	6	7	33	2	24	3	75	134	1
6-671	1.1	32	2	38	16	15	20	5	25	2	65	146	3
6-672	.2	1	23	1	3	7	5	1	26	1	21	73	2
6-673	.2	27	33	5	1	6	5	1	20	1	31	45	1
6-674	.2	1	32	7	3	7	5	1	9	1	28	70	1
6-675	.6	15	1	52	4	7	13	4	11	1	34	73	1
6-676	.6	107	3	1	7	6	19	2	12	3	52	1538	2
6-677	1.1	38	3	30	15	15	18	4	30	4	53	167	1
6-678	1.0	31	2	11	15	20	18	5	27	3	46	177	3
6-679	1.2	49	2	40	15	102	15	5	27	3	50	145	2
6-680	.9	31	3	15	13	8	22	4	27	4	70	138	1
6-681	.7	9	3	12	11	8	19	4	24	3	43	74	2
6-682	1.0	32	3	18	14	10	23	4	27	4	57	154	2
6-683	1.0	32	3	1	14	8	30	2	29	7	45	173	1
6-684	.6	21	3	8	6	8	29	4	31	4	53	123	3
6-685	.4	18	2	19	6	10	19	3	24	1	41	110	2
6-686	1.0	27	3	16	15	8	23	4	23	6	55	158	2
6-687	.6	19	4	22	7	10	25	4	24	5	44	135	2
6-688	.2	1	1	1	3	7	6	1	18	1	23	108	1
6-689	.9	20	5	33	14	8	21	2	28	5	59	148	3
6-690	1.0	34	2	2	14	6	19	4	24	2	41	177	1
6-691	1.0	31	3	13	16	10	20	4	27	4	62	160	2
6-692	.7	33	3	6	7	6	23	3	27	4	59	177	1
6-693	1.0	29	2	16	14	15	22	5	27	3	57	163	3
6-694	1.5	14	3	34	24	8	10	2	22	1	66	62	2
6-695	1.6	30	3	3	24	10	15	4	22	1	59	69	2
6-696	.9	37	4	88	11	7	21	4	28	5	74	97	1
6-697	.9	19	4	2	13	6	25	3	24	5	76	165	2
6-698	.6	33	4	16	7	8	25	4	26	5	61	145	3
6-699	.9	17	3	31	14	7	22	4	31	3	67	137	2
6-721	.3	1	6	2	6	19	32	3	8	1	28	93	1
6-722	.5	9	3	13	6	11	22	4	25	1	98	131	3
6-723	.8	17	4	3	13	6	15	4	28	4	84	157	4
6-724	1.0	38	3	3	14	7	16	4	27	5	58	168	2
6-725	1.5	20	3	11	24	9	14	3	22	2	61	55	8
6-726	1.1	45	4	30	15	7	21	4	27	5	47	187	3
6-727	.5	15	4	8	8	6	21	2	28	5	64	155	2
6-728	.2	35	3	3	2	7	5	1	20	1	19	54	2
6-729	.1	1	3	1	1	8	5	1	5	1	32	99	1
6-730	.7	4	2	44	6	17	24	5	30	1	1017	106	4
6-731	.3	1	1	1	5	11	5	1	13	1	19	107	1
6-732	.5	10	2	14	6	6	27	4	26	1	57	77	5
6-733	.1	1	5	1	6	9	24	5	25	1	57	75	2
6-734	.5	13	3	2	7	10	15	1	21	1	36	100	3
6-735	.4	22	4	18	5	8	20	3	17	1	27	90	2
6-736	.3	1	5	2	6	13	51	2	24	2	93	89	1
6-737	.2	1	2	1	3	8	6	1	12	1	20	99	2



**MIN
• EN
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 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

Analytical Report

Company: R. SOMMERVILLE GEOLOGICAL
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITTLLEY

File: 82-1526
Date: OCT. 29/88
Type: ROCK GEOCHEM

Date Samples Received : OCT. 26/88
Samples Submitted by : R. SOMMERVILLE

Report on 19 ROCKS..... Geochem Samples
..... Assay Samples

Copies sent to:

1. R. SOMMERVILLE GEOLOGICAL, WEST VANCOUVER, B.C.
2. R. SOMMERVILLE GEOLOGICAL, PORCUPINE, ONT.
3. R. SOMMERVILLE GEOLOGICAL, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....

Prepared samples stored: X discarded:
rejects stored: X discarded:

Methods of analysis:

12 ELEMENT TRACE ICP
AU-FIRE GEOCHEM

Remarks

COMPANY: R. SOMMERVILLE
 PROJECT NO: TIMMINS-SHAW
 ATTENTION: R. SOMMERVILLE H. TITILEY

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: 82-1526/P1
 DATE: OCTOBER 29, 1988

(VALUES IN PPM)	AS	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
P21	.5	1	2	11	4	8	3	2	6	1	21	88	5
P226	.5	7	2	6	2	7	3	1	12	8	11	204	3
P227	.4	1	1	11	3	8	3	3	17	1	22	114	4
P228	.2	16	7	21	5	8	28	2	15	1	75	125	3
P229	.7	58	4	18	6	8	4	3	15	7	6	146	1
P230	.7	1	1	5	2	7	4	1	13	1	10	133	2
P231	.4	6	1	3	1	9	4	1	20	1	10	153	3
P232	.5	22	11	20	4	21	13	2	7	1	40	141	2
P233	.4	16	3	7	3	7	4	1	13	1	13	138	6
P234	1.5	32	1	3	5	9	4	4	15	2	19	268	5
P235	1.6	34	1	3	4	19	4	4	8	1	15	268	3
P236	1.9	39	5	5	4	13	4	5	12	2	14	319	1
P237	.4	30	1	5	2	10	4	1	18	1	25	223	4
P238	.7	1	1	11	2	8	4	3	4	7	39	73	2
P237	2.0	57	1	12	5	7	4	2	14	282	24	164	13
P240	.6	1	1	7	5	9	4	2	13	2	20	169	2
P241	1.3	5	1	4	5	8	4	3	16	1	15	174	5
P242	.2	20	1	5	3	8	4	1	17	1	11	107	9
P243	.5	1	4	1	5	9	4	4	39	8	16	80	6



**MIN
• EN
LABORATORIES LTD.**

SPECIALISTS IN MINERAL ENVIRONMENTS
CHEMISTS • ASSAYERS • ANALYSTS • GEOCHEMISTS

VANCOUVER OFFICE:
706 WEST 15TH STREET
NORTH VANCOUVER, B.C. CANADA V7M 1T2
TELEPHONE (604) 980-5814 OR (604) 988-4524
TELEX: VIA U.S.A. 7801087 • FAX (604) 980-9621

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

Analytical Report

Company: R. SOMMERVILLE MANAGEMENT
Project: TIMMINS SHAW
Attention: R. SOMMERVILLE/H. Z. TITILEY

File: 82-1549
Date: OCT 31/88
Type: ROCK GEOCHEM

Date Samples Received : OCT 29/88
Samples Submitted by : R. SOMMERVILLE

Report on 20 ROCKS Geochem Samples
..... Assay Samples

- Copies sent to:
1. R. SOMMERVILLE GEOLOGICAL MANAGEMENT, WEST VANCOUVER, B.C.
 2. R. SOMMERVILLE GEOLOGICAL MANAGEMENT, PORCUPINE, ONT. J
 3. R. SOMMERVILLE GEOLOGICAL MANAGEMENT, C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100....

Prepared samples stored: X.... discarded:
rejects stored: discarded: X.....

Methods of analysis:

AU FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

(VALUES IN PPB)	AG	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
6020	.7	56	7	3	6	8	5	5	15	1	7	43	2
6021	.8	28	8	4	4	9	9	2	21	1	56	122	1
6022	.6	1	10	27	4	8	29	1	14	1	62	84	1
6023	.4	3	8	23	4	25	22	1	13	1	60	88	1
6024	.5	2	14	18	3	63	33	3	10	2	74	82	2
6025	.5	17	7	28	4	20	25	1	14	1	58	93	1
6026	.6	43	15	31	8	21	35	3	11	1	453	92	3
6028	.5	33	7	30	12	8	15	1	27	1	50	83	2
6029	.7	5	12	34	16	11	21	3	13	3	59	91	2
6031	.8	73	20	12	10	7	40	4	28	2	37	61	1
6032	.3	44	4	52	3	7	6	2	29	1	21	80	1
6033	.6	51	11	13	2	8	38	2	14	1	54	79	2
6035	.9	2	10	35	12	10	26	1	19	1	61	87	3
6076	1.6	4	7	3	14	8	19	2	8	1	38	197	1
6081	1.7	24	11	3	18	8	15	2	18	1	29	127	3
6085	.4	64	10	16	5	8	31	1	14	1	43	170	2
6087	.4	7	7	36	4	25	24	1	17	1	109	127	1
6089	.6	17	9	8	4	22	31	1	12	1	58	164	3
6092	1.4	26	5	149	4	110	16	3	11	1	68	109	1
6098	.3	53	6	21	4	7	23	1	7	1	29	159	1



**MIN
• EN
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. 7801087 • FAX (604) 980-9621

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

Analytical Report

Company: R. SOMMERVILLE GEOL.
Project: TIMMINS-SHAW
Attention: R. SOMMERVILLE/H. TITILEY

File: 82-1561
Date: NOV. 4/88
Type: ROCK GEOCHEM

Date Samples Received : NOV. 1/88
Samples Submitted by : R. SOMMERVILLE

Report on 79 ROCKS..... Geochem Samples
..... Assay Samples

Copies sent to:

1. R. SOMMERVILLE GEOL., WEST VANCOUVER, B.C.
2. R. SOMMERVILLE GEOL., PORCUPINE, ONT.
3. R. SOMMERVILLE GEOL., C/O RON, TIMMINS, ONT.

Samples: Sieved to mesh Ground to mesh -100.....

Prepared samples stored: X..... discarded:
rejects stored: X..... discarded:

Methods of analysis:

AU-FIRE GEOCHEM
12 ELEMENT TRACE ICP

Remarks

(V% IN PPM)	AG	AS	B	BA	BI	CU	LI	MO	PS	SB	ZN	BR	AU-PPB
659	.5	19	9	15	5	7	28	3	14	1	89	133	14
6592	.5	33	9	13	5	6	33	4	19	1	36	169	5
6598	1.0	1	7	28	12	7	24	3	19	1	51	168	2
6656	.9	1	3	11	5	14	12	4	30	1	64	68	3
6657	1.6	28	6	29	12	40	21	3	15	1	65	137	4
6658	.6	12	9	7	13	9	28	3	20	4	50	143	10
6659	.5	27	7	16	5	24	25	2	15	1	59	137	6
6660	.4	1	12	2	5	9	46	4	27	4	54	134	7
6661	.5	16	10	14	7	27	35	1	20	1	50	164	2
6662	.4	18	8	24	4	28	39	1	8	1	50	137	6
6663	.5	15	8	7	5	17	35	3	14	1	45	147	7
6664	1.0	29	7	11	10	16	36	2	12	1	45	163	1
6665	.6	23	7	12	6	9	29	2	14	1	35	131	4
6666	.6	33	5	6	6	8	19	2	22	1	49	174	5
6667	.7	9	8	4	5	23	26	3	17	1	45	146	10
6668	.3	28	10	15	13	15	31	2	15	1	36	173	14
6738	.3	35	6	20	4	6	13	2	31	1	18	51	2
6739	.4	15	8	1	4	13	16	3	15	1	38	1047	3
6740	.7	7	9	19	6	8	41	1	18	1	61	84	1
6741	.4	1	8	5	4	72	43	3	12	4	36	95	2
6742	1.9	1	1	35	5	11	8	4	15	1	36	55	2
6743	.6	5	2	5	2	201	6	2	21	1	18	172	5
6744	.4	18	10	3	13	6	12	1	16	3	36	170	3
6745	1.1	22	9	6	17	9	9	1	14	1	62	59	1
6746	1.3	29	8	13	18	11	14	2	25	1	50	77	2
6747	2.0	12	6	36	21	8	12	1	21	1	53	53	2
6748	.5	7	11	14	4	8	24	2	22	4	45	119	1
6749	.6	9	7	11	6	9	25	2	16	1	56	115	1
6750	.3	13	7	4	5	7	28	2	15	3	39	188	2
6751	.4	13	10	2	4	6	21	3	25	5	60	116	3
6752	.5	25	8	29	4	7	23	2	26	1	52	97	2
6753	.2	39	9	42	6	8	16	1	15	1	56	115	3
6754	.6	94	6	1	3	12	10	1	11	1	60	1253	4
6755	.6	36	9	22	5	6	19	2	23	2	26	94	5
6756	.3	61	14	1	3	8	33	2	30	9	27	84	2
6757	.5	5	11	1	13	9	21	2	14	4	31	49	3
6758	1.1	24	9	4	20	6	15	1	17	1	36	132	4
6759	.5	1	9	30	15	7	17	3	20	1	36	47	2
6760	.8	28	8	5	15	7	14	1	17	1	48	75	3
6761	1.4	25	7	5	17	8	14	1	23	1	28	44	1
6762	.7	6	8	3	16	7	15	1	17	4	23	46	1
6763	.6	4	9	2	18	7	17	1	20	4	23	43	2
6764	.8	3	10	2	16	7	18	1	21	5	39	47	1
6765	1.2	26	9	4	20	7	15	1	15	1	27	71	3
6766	.5	18	8	5	17	7	17	1	18	1	23	47	2
6767	.5	1	8	1	19	6	15	1	15	1	35	51	2
6768	.3	16	11	3	18	7	17	4	24	4	43	54	1
6769	1.6	32	7	8	22	7	14	2	19	1	26	53	3
6790	1.5	27	7	25	21	7	12	3	18	1	30	57	2
6781	.8	12	10	5	22	9	19	3	15	4	41	46	1
6791	.3	20	8	13	5	13	29	2	19	1	52	141	3
6792	2.1	1	7	57	15	12	13	3	15	1	39	130	1
6793	1.1	40	8	13	13	31	26	3	22	1	35	158	3
6794	1.0	35	11	31	15	20	22	1	10	1	56	139	2
6795	.5	47	12	2	13	16	25	5	16	5	32	138	1
6796	1.0	33	10	29	13	37	22	2	16	1	66	159	4
6797	.5	20	8	21	14	20	20	2	19	3	49	146	2
6798	.7	16	11	7	13	26	23	2	18	5	46	137	2
6799	.5	52	8	38	12	19	18	2	21	1	59	95	1
6800	.4	16	7	40	11	32	21	3	23	1	36	95	1

(VALUES IN PPB)	AS	AS	B	BA	BI	CU	LI	MO	PB	SB	ZN	CR	AU-PPB
690	1.9	1	10	101	16	64	16	4	32	1	61	244	2
6782A	.2	19	12	19	11	22	38	3	18	3	51	184	5
6782B	.3	54	10	5	16	7	15	3	20	6	59	57	1
6783A	1.0	30	9	20	10	27	28	2	10	1	52	166	2
6783B	.3	3	8	14	10	6	15	1	15	1	30	70	2
6784A	.6	26	6	10	5	34	20	2	17	1	58	161	1
6784B	.6	1	9	13	9	8	16	2	19	1	33	80	3
6785A	2.1	4	5	8	13	10	16	4	19	1	52	160	2
6785B	1.3	25	3	10	5	7	10	3	16	1	19	236	1
6786A	1.4	25	10	4	21	7	13	1	21	1	26	67	2
6786B	.4	35	6	21	5	7	24	2	8	1	43	157	3
6787A	1.8	22	10	5	22	7	13	3	18	1	51	76	2
6787B	.4	33	8	26	5	21	25	3	13	1	58	176	1
6788A	.9	25	10	16	13	20	29	2	7	1	43	163	5
6788B	.6	12	10	12	5	7	19	3	6	1	55	68	2
6789A	.6	29	5	30	6	24	22	3	11	1	55	150	6
6789B	.8	9	9	8	17	13	17	1	16	1	48	71	4
6790A	.8	1	7	34	6	6	21	5	14	1	44	183	3
6790B	1.0	21	10	3	24	7	13	2	18	1	18	76	1

APPENDIX II

GEOCHEMICAL PROGRAM COST

A. RSGM LABOUR TO COLLECT GRAB SAMPLES

S. Chatterjee	Sept 17 - 30	14 days
	Oct. 1 - 15	15 days
F. Audette	Oct. 11 - 21	10 days
	Oct. 29 - 31	3 days
	Nov. 16 - 30	<u>2 days</u>
NUMBER OF MAN DAYS		44 days

B. CONTRACT LABOUR TO COLLECT PLUGGER SAMPLES

Halo Exploration		
B. Bouchard	Nov. 1 - 4,	
	Nov. 6 - 10	9 man days
As listed	Sept. 10 - 17	20 man days
	Sept. 18 - 30	32 man days
	* Oct. 1 - 30	<u>65 man days</u>
		126 man days

C. TECHNICAL LABOUR

A. Boronowski

Computer Data Entry, Digitizing and		
Data Analysis, Report Writing		7 days
Drafting	42.5 hrs or	<u>5 days</u>

TOTAL		182 man days
-------	--	--------------

* receipt missing

GEOCHEMICAL PROGRAM COSTLABOUR (see A)

44 days @ \$143.75/day
 (\$125.00/day plus 15% payroll burden)

I certify that these costs are correct
[Signature]
 President

\$ 6,325.00

CONTRACT LABOUR (see B)

Halo Invoice	\$ 3,370.50
Halo Invoice	\$ 5,154.00
Halo Invoice	\$ 9,122.70
Halo Invoice	\$ 54.22
Halo Invoice	\$ 1,012.50
Halo Invoice	\$ 25.00

TECHNICAL LABOUR (see C)

A. Boronowski 7 days @ \$350.00/day	\$ 2,450.00
--	-------------

Drafting 42.5 hrs. @\$17.00/hr.	\$ 722.50
------------------------------------	-----------

SUBTOTAL LABOUR	\$34,561.42
-----------------	-------------

ANALYSIS COST (see D)

922 samples plus 177 checks, repeats and dummies	\$17,715.75
---	-------------

TOTAL	\$52,277.17
-------	-------------

or	3,485 days
----	------------

LESS PREVIOUSLY CLAIMED	40 days
-------------------------	---------

TOTAL APPLICABLE	3,445 days
------------------	------------

IN ACCOUNT WITH

RSGM

R. Somerville Geological & Mining Engineering Ltd.

1052 Esquimalt Avenue • West Vancouver, B.C. V7T 1J8 • Telephone (604) 922-6955

TO Total Energold Corp.
1300 - 700 West Pender St.
Vancouver, B.C.
V6C 1G8

DATE December 5, 1988

207

INVOICE No. _____

PROFESSIONAL & TECHNICAL LABOUR
SHAW/GOOSE LAKE

Hermann Pittley, Project Supervisor

Sept. 1-30	26	days	
Oct. 1-31	14	days	
Nov. 1-15	<u>2.5</u>	days	
	42.5	days @ \$275.00/day	11,687.50

K. Huelke, Senior Geologist

Sept. 1-30	22	days	
Oct. 1-31	16.7	days	
Nov. 1-15	<u>7.375</u>	days	
	46.075	days @ \$210.00/day	9,675.75

S. Chatterjee, Geological Technician

Sept. 1-30	25	days	
Oct. 1-15	<u>14</u>	days	
	39	days @ \$125.00/day	4,875.00

SUBTOTAL PROFESSIONAL & TECHNICAL LABOUR

26,238.25

MANAGEMENT @ 10%

2,623.82

TOTAL PROFESSIONAL & TECHNICAL LABOUR

\$28,862.07

PAID

sent Dec. 8

Deposited RSGM Dec. 23 '88

R. SOMERVILLE GEOLOGICAL & MINING ENGINEERING
 TIME SHEET

FOR: Samir Chatterjee , September 1-30, 1988

5	Field mapping	Shaw 1	8
6	Field mapping	Shaw 1	8
7	Field mapping	Shaw 1	8
8	Field mapping	Shaw 1	8
9	Field mapping	Shaw 1	8
10	Day off		
11	Camp Duties w/ H.Z. Tittley	Shaw 1	8
12	Field mapping	Shaw 1	8
13	Field mapping	Shaw 1	8
14	Field mapping	Shaw 1	8
15	Field mapping	Shaw 1	8
16	Field mapping	Shaw 1	8
17	Plugger sample locations	Shaw 1	8
18	Plugger sample locations	Shaw 1	8
19	Plugger sample locations	Shaw 1	8
20	Plugger sample locations	Shaw 1	8
21	Plugger sample locations	Shaw 1	8
22	Plugger sample locations	Shaw 1	8
23	Plugger sample locations	Shaw 1	8
24	Plugger sample locations	Shaw 1	8
25	Camp Duties, Tested equipment	Shaw 1	8
26	Plugger sample loactions	Shaw 1	8
27	Data plotting on map	Shaw 1	8
28	Plugger sample locations	Shaw 1	8
29	Data plotting	Shaw 1	8
30	Data plotting	Shaw 1	8
TOTAL DAYS WORKED = 25		HOURS	200

TRRL SHAW / GOOSE LK = 25 days

R. SOMERVILLE GEOLOGICAL & MINING ENGINEERING
TIME SHEET

FOR: Samir Chatterjee PERIOD: October 1-15, 1988
ON: SHAW TWP/GOOSE LK PROJECT

1	Prospecting; sampling outrops	Shaw 1	8
2	D/O		
3	Moving office and camp	Shaw 1	8
4	Prospecting; sampling outrops	Shaw 1	8
5	Prospecting; sampling outrops	Shaw 1	8
6	Prospecting; sampling outrops	Shaw 1	8
7	Prospecting; sampling outrops	Shaw 1	8
8	Prospecting; sampling outrops	Shaw 1	8
9	Prospecting; sampling outrops	Shaw 1	8
10	Prospecting; sampling outrops	Shaw 1	8
11	Prospecting; sampling outrops	Shaw 1	8
12	Prospecting; sampling outrops	Shaw 1	8
13	Prospecting; sampling outrops	Shaw 1	8
14	Trenching @ G76, sampling	Shaw 1	8
15	Prospecting; sampling outrops	Shaw 1	8

TOTAL DAYS WORKED = 14

HOURS 112

TERL SHAW/GOOSE LK = 14 days

IN ACCOUNT WITH



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

TO Total Energold Corp.
1500 760 West Pender St.
Vancouver, B.C.
V6C 1G8

DATE December 5, 1988

202

INVOICE No. _____

PROFESSIONAL & TECHNICAL LABOUR

SHAW/GOOSE LAKE PROJECT

Tim Lloyd, Geologist
Sept 1-30 - 16 days
October 1-31 - 29.125 days
November 1-15 - 8.75 days

53.875 @ \$125.00/day 6,734.38

Francois Audette, Geological Technician
October 1-31 - 23 days
November 1-15 - 3 days

26 days @ \$125.00/day 3,250.00

SUBTOTAL LABOUR 9,984.38

PROJECT MANAGEMENT @ 10% 998.44

TOTAL LABOUR \$10,982.82

PAID

Connected amt

\$10,845.32

deposited RSGM Dec. 23 '88

sent Dec. 8

R. SOMERVILLE GEOLOGICAL & MINING ENGINEERING
 TIME SHEET
 FOR: Francois Audette PERIOD: October 1-31, 1988

3	Travel; Rouyn-Timmins; 1st day	Shaw 1	4
	Orientation	Shaw 1	4
4	VLF survey	Shaw 1	8
5	VLF survey	Shaw 1	8
6	VLF survey	Shaw 1	8
7	VLF survey	Shaw 1	8
8	VLF survey	Shaw 1	8
9	D/O		
10	Moving office	Shaw 1	8
11	Prospecting & Sampling Iron formation	Shaw 1	8
12	Prospecting & Sampling Iron formation	Shaw 1	8
13	Prospecting & Sampling Iron formation	Shaw 1	8
14	Trenching showing w/backhoe; mapping	Shaw 1	8
15	Prospecting & Sampling Iron formation	Shaw 1	8
16	D/O		
17	Prospecting & Sampling Iron formation	Shaw 1	8
18	Prospecting & Sampling Iron formation	Shaw 1	8
19	Prospecting & Sampling Iron formation	Shaw 1	8
20	Prospecting & Sampling Iron formation	Shaw 1	8
21	Prospecting & Sampling Iron formation	Shaw 1	8
22	Coreshack	Mathe 1	8
23	D/O		
24	Coreshack	Mathe 1	8
25	Coreshack	Mathe 1	8
26	VLF survey	Shaw 1	8
27	VLF survey	Shaw 1	8
28	Coreshack	Mathe 1	8
29	Plotting sample locations	Shaw 1	8
30	Plotting sample locations	Shaw 1	8
31	Plotting sample locations	Shaw 1	8

TOTAL DAYS: 31

HOURS 208

TOTAL DAYS WORKED: 26

TERL SHAW/GOOSE LK. ----- ¹⁷⁶ ²² 184/8 = 23DAYS *JL*

22 / 8

HALY EXPLORATIONS
 GENERAL DELIVERY
 CONNAUGHT, ONTARIO P0M 1A0

L. SALO
 (705) 363-2108

INVOICE #

TO Herman Dittley

ATTENTION

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

TOWNSHIP SHAW re: Plugger work work week Sept 10-17

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

TOTAL # 3370⁵⁰

Sept 10+12 Larry Salo
 Sept 10-17 incl Guy Hebert
 Sept 12-16 incl Dave Recoski
 Sept 17 Richard Roy
 Sept 14-17 incl Barron Beauchard

2
 8
 5
 1
 4

 29
 Paid by cheque # 83
 Sept 27, '88

EXPLORATION
 AERIAL DELIVERY
 ONTARIO PGM 120

L. SALD
 (705) 264-2032

Murray Littley

ATTENTION

STAKING ()	LINECUTTING ()	ASSESSMENT WORK (X)	PRICE PER
TOWNSHIP	<i>Plugging Work - Shaw Dup</i>		<i>Sept 18 - 30</i>
			1
			1 4800-
			1 330-
			1 24-
			1
			1

*H. Hebert 19-23 incl (5)
 26-30 incl (5)*

*D. Recoski 19-23 incl (5)
 26-30 incl (5)*

*B. Bouchard 18-24 incl (7)
 26-30 incl (5)*

TOTAL \$ 5154^{xx}

PAID

Chaque 11/6/11

Please Pay.
A

File Copy

*Claimed on
Personal
Expenses*

R.SOMERVILLE GEOLOGICAL AND
MINING ENGINEERING LTD.

EA221088

EXPENSE ACCOUNT --

DATE SUBMITTED: OCT. 22/88

RE: MISCELLANEOUS PROJECT EXPENSES - GOOSE LK./SHAW TWP.

IN ACCOUNT WITH : TOTAL ENERGOLD RES. LTD.

DATE	ITEM	AMOUNT	ACCOUNT #
27-Jul-88	HARDWARE & FLYSPRAY GOOSE LK.	\$54.22	TERL
08-Aug-88	GEOPHYSICS SHAW TWP./GOOSE LK.	\$4,521.60	TERL
30-Sep-88	HALO EXPLOR. PLUGGER WORK	\$5,154.00	✓
	SUBTOTAL PROJECT EXPENSES	\$9,729.82	
	MANAGEMENT @ 10%	\$972.98	
	TOTAL PROJECT EXPENSES	\$10,702.80	

HALO EXPLORATIONS
General Delivery,
CONNAUGHT, Ontario
PON_1A0 (705)363-2108

R. SOMERVILLE GEOLOGICAL
and MINING ENGINEERING LTD.,

INVOICE 023861

December 7/88

Nov 1-4, Nov 6-10
Barron Bouchard- under Herman Tittley
9 days at \$112.50

1 day Boat rental

1 man day- Guy Hebert
Building shelves in core shack

2 man days re- Staking in Guibord Township
sorry area not open

6 claims SHAW nad WHITNEY Townships
-transfers enclosed

*1,012.50 SHAW?

* 25.00 SHAW

* 150.00 COP

* 300.00 BROTHERS

* 600.00 SHAW

BALANCE DUE

*2,087.50

Note As this invoice is long overdue, knowing that it is not your fault but that of the mail, could you please send payment by courier or a bank transfer it would be greatly appreciated.

January 13/89
J.G. Salo

JG Salo

PAID

TERL SHAW

\$ 1,637.50

COP

150.00

BROTHERS

300.00

\$ 2,087.50

IN ACCOUNT WITH

RSGM

R. Somerville Geological & Mining Engineering Ltd.

1052 Esquimalt Avenue • West Vancouver, B.C. V7T 1J8 • Telephone (604) 922-6955

TO Total Energold Corp.
1500 - 700 West Pender St.
Vancouver, B.C.
V6C 1G8

DATE February 22, 1989

242

INVOICE No. _____

SHAW TOWNSHIP/GOOSE LAKE PROJECT
NOV. 16-30, 1988
PROFESSIONAL & TECHNICAL LABOUR

<u>H.E. Tittley, Project Supervisor</u> 2.25 days @ \$275/day	\$ 618.75
<u>R. Mielke, Senior Geologist</u> 11.0 days @ \$210/day	\$2,310.00
<u>T.J. Lloyd, Geologist</u> 8.25 days @ \$125/day	\$1,031.25
<u>E. Audette, Geol. Technician</u> 2.125 days @ \$125/day	\$ 265.63
SUBTOTAL PROFESSIONAL AND TECHNICAL LABOUR	\$4,225.63
ON-SITE MANAGEMENT @ 10%	\$ 422.56
TOTAL PROFESSIONAL AND TECHNICAL LABOUR	\$4,648.19

LAFORST-HLAVA EXPLORATION SERVICES LTD.

(705) 268-2511

24 Pine Street South, P.O. Box 1163, TIMMINS, ONTARIO P4N 7H9

September 22, 1988

R. Somerville Geological
and Mining Engineering Ltd
P.O. Box 280
Porcupine, Ontario
PON 1C0

Re: Hermann Z. Tittley
Drafting

INVOICE #129

<u>September 13/88</u>	4 prints	\$ 32.40
	2 maps (retracing)	97.50
	(6.5 hrs @ \$15.00/hr)	

<u>September 14/88</u>		
20 pieces of tracing paper	23 x 36 @ \$2.00	230.00

<u>September 19/88</u>	3 mylars	
	23 x 36	23.28


HOURS OF LABOUR

September 14/88 to September 20/88	21.5 hrs @ \$15.00/hr	<u>322.50</u>
---------------------------------------	-----------------------	---------------

TOTAL AMOUNT NOW DUE		<u><u>\$705.68</u></u>
----------------------	--	------------------------

THANK YOU

LAFORST-HLAVA EXPLORATION
SERVICES LIMITED


Denis Laforest

/ch

*Hand by cheque #81
(with invoice 130)
Sept 23 88*

Somerville Engineering Co.

ORDER NUMBER	59830
DATE	Nov 5/88
CUSTOMER'S ORDER	
PALESMAN	
TERMS	
F.O.B.	

SHIPPED TO _____
ADDRESS _____ VIA _____

Re: Drafting				
Shaw / Pimmings				
(work Nov 1-15/88)				
	21 hrs @			
	\$17.00 per		\$315.00	
			315.00	
B.N.				

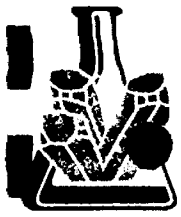
031

0 ●

1988 SAMPLES SHAW TWP.

FILE #	# OF SAMPLES	COST
1243	45	\$741.75
1263	79	\$1,283.75
1277	25	\$406.25
1287	34	\$553.50
1301	30	\$497.00
1307	31	\$503.75
1309	19	\$308.75
1324	18	\$292.50
1345	69	\$1,131.75
1366	47	\$773.25
1385	44	\$715.00
1421	103	\$1,683.25
1424	41	\$666.25
1442	60	\$983.50
1466	156	\$2,556.50
1467	58	\$952.50
1484	12	\$195.00
1495	37	\$603.25
1496	55	\$893.75
1503	18	\$292.50
1526	19	\$262.75
1549	20	\$325.00
1561	79	\$1,285.25
8503	0	\$312.00
10999	0	\$352.00
	1099	\$18,570.75

less # 845.00 previously claimed
 \$17,715.75



**MIN
• EN
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.
PON 1C0.

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

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1345

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 

*entired
Lolies*
✓



**MIN
• EN
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 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 10958C

PAGE : 1 OF 1

DATE : Sep 30/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY

FILE No: 82-1324

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
18 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	108.00
18 ROCK GEOCHEM - AU FIRE	7.25	130.50
18 ROCK SAMPLE PREP	3.00	54.00

	* TOTAL *	292.50

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

Please Pay





**MIN
• EN
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. 7801067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 10793C
PAGE : 1 OF 1
DATE : Sep 30/88


ACCOUNT : 10999

ATTENTION: R.SOMMERVILLE/H.TITTLLEY **FILE No: 82-1263**
PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
79 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	474.00
79 ROCK GEOCHEM - AU FIRE	7.25	572.75
79 ROCK SAMPLE PREP	3.00	237.00

	* TOTAL *	1283.75

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

Please Pay 





**MIN
• EN
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. 7601087 • FAX (604) 980-9821

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 10797C

PAGE : 1 OF 1

DATE : Sep 30/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1277

QTY DESCRIPTION

UNIT PRICE AMOUNT

25 ROCK GEOCHEM - 12 ELEMENT TRACE ICP
25 ROCK GEOCHEM - AU FIRE
25 ROCK SAMPLE PREP

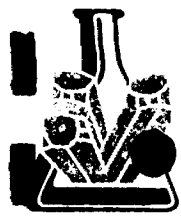
6.00 150.00
7.25 181.25
3.00 75.00

*** TOTAL * 406.25**

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

Please Pay

✓



**MIN
• EN
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 10806C
PAGE : 1 OF 1
DATE : Sep 30/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1287

QTY DESCRIPTION	UNIT PRICE	AMOUNT
34 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	204.00
34 ROCK GEOCHEM - AU FIRE	7.25	246.50
34 ROCK SAMPLE PREP	3.00	102.00
	SUBTOTAL	552.50
2 PAGES FAXED	0.50	1.00
	* TOTAL *	553.50

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

Please Pay.





**MIN
• EN
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. 7801067 • 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 10915C
PAGE : 1 OF 1
DATE : Sep 30/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1301

QTY DESCRIPTION

UNIT PRICE AMOUNT

30 ROCK GEOCHEM - 12 ELEMENT TRACE ICP
30 ROCK GEOCHEM - AU FIRE
30 ROCK SAMPLE PREP

6.00 180.00
7.25 217.50
3.00 90.00

SUBTOTAL 487.50

4 PAGES FAXED (82-1307, 1309, 1301)
LONG DISTANCE CALL

0.50 2.00
7.50 7.50

*** TOTAL * 497.00**

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

Please Pay





**MIN
• EN
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) 888-4524
TELEX: VIA U.S.A. 7801067 • 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,
FORCUPINE, ONT.
P0N 1C0.

INVOICE No 10916C

PAGE : 1 OF 1

DATE : Sep 30/88

ACCOUNT: 10999


ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1307

QTY DESCRIPTION	UNIT PRICE	AMOUNT
31 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	186.00
31 ROCK GEOCHEM - AU FIRE	7.25	224.75
31 ROCK SAMPLE PREP	3.00	93.00

	* TOTAL *	503.75

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

Please Pay. 





**MIN
• EN
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

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

INVOICE No 10917C
PAGE : 1 OF 1
DATE : Sep 30/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITILEY
PROJECT: TIMMINS SHAW

FILE No: 82-1309


QTY DESCRIPTION

QTY DESCRIPTION	UNIT PRICE	AMOUNT
19 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	114.00
19 ROCK GEOCHEM- AU FIRE	7.25	137.75
19 ROCK SAMPLE PREP	3.00	57.00

* TOTAL *		308.75

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

Please Pay






EN
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) 284-9996

INVOICE

TO: SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 10793C
PAGE : 1 OF 1
DATE : Sep 30/88

ACCOUNT: 10999

ATTENTION: R. SOMMERVILLE/H. TITTLLEY FILE No: 82-1263
PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
79 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	474.00
79 ROCK GEOCHEM - AU FIRE	7.25	572.75
79 ROCK SAMPLE PREP	3.00	237.00

	* TOTAL *	1283.75

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

Please Pay 





**MIN
• EN
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 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 11235C

PAGE : 1 OF 1

DATE : Oct 15/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY

FILE No: 82-1421

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
103 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	618.00
103 ROCK GEOCHEM - AU FIRE	7.25	746.75
103 ROCK SAMPLE PREP	3.00	309.00
	SUBTOTAL	1673.75
4 PAGES FAXED	0.50	2.00
LONG DISTANCE CALL	7.50	7.50
	* TOTAL *	1683.25

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

Please Pay A





**MIN • EN
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. 7801067 • FAX (604) 980-9821

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.TITTLLEY
PROJECT: TIMMINS SHAW

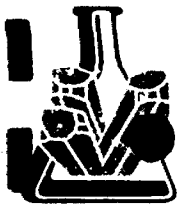
FILE No: 82-1366

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

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

Please Pay





**MIN
• EN
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) 980-9821

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.
PON 1C0.

INVOICE No 11233C
PAGE : 1 OF 1
DATE : Oct 15/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

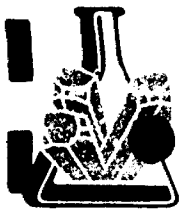
FILE No: 82-1424

QTY DESCRIPTION	UNIT PRICE	AMOUNT
41 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	246.00
41 ROCK GEOCHEM - AU FIRE	7.25	297.25
41 ROCK SAMPLE PREP	3.00	123.00

	* TOTAL *	666.25

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

please pay. A



**MIN
• EN
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. 7801067 • FAX (604) 980-9821

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 867
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9998

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 11139C

PAGE : 1 OF 1

DATE : Oct 10/88

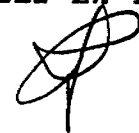
ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1385

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
44	ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	264.00
44	ROCK GEOCHEM - AU FIRE	7.25	319.00
44	ROCK SAMPLE PREP	3.00	132.00
* TOTAL *			715.00

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

please Pay! 





**MIN
EN
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) 888-4524
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 11260C
PAGE : 1 OF 1
DATE : Oct 17/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1442

QTY DESCRIPTION

60 ROCK GEOCHEM - 12 ELEMENT TRACE ICP
60 ROCK GEOCHEM - AU FIRE
50 ROCK SAMPLE PREP

UNIT PRICE	AMOUNT
6.00	360.00
7.25	435.00
3.00	150.00

SUBTOTAL 975.00

2 PAGES FAXED
LONG DISTANCE CALL

0.50	1.00
7.50	7.50

*** TOTAL * 983.50**

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

Please Pay
[Signature]





**EN
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. 7801067 • 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
1052 ESQUIMALT AVE.,
WEST VANCOUVER, B.C.
V6C 1J8

INVOICE No 11666C
PAGE : 1 OF 1
DATE : Nov 09/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTELY
PROJECT: TIMMINS SHAW

FILE No: 82-1561

QTY DESCRIPTION	UNIT PRICE	AMOUNT
79 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	474.00
79 ROCK GEOCHEM - AU FIRE	7.25	572.75
79 ROCK SAMPLE PREP	3.00	237.00
	SUBTOTAL	1283.75
3 PAGES FAXED	0.50	1.50
	* TOTAL *	1285.25

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





**MIN
EN
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. 7801067 • FAX (604) 988-9621

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

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 11568C

PAGE : 1 OF 1

DATE : Nov 01/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTELY
PROJECT: TIMMINS SHAW

FILE No: 82-1549

QTY DESCRIPTION	UNIT PRICE	AMOUNT
20 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	120.00
20 ROCK GEOCHEM - AU FIRE	7.25	145.00
20 ROCK SAMPLE PREP	3.00	60.00
	* TOTAL *	325.00

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





**MIN
• EN
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) 980-8621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 11505C
PAGE : 1 OF 1
DATE : Oct 30/88

ACCOUNT: 10979

ATTENTION: R.SOMERVILLE/H.TITTLLEY **FILE No: 82-1526**
PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
19 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	114.00
19 ROCK GEOCHEM - AU WET	4.75	90.25
19 ROCK SAMPLE PREP	3.00	57.00
	SUBTOTAL	261.25
3 PAGES FAXED (82-1525,82-1526)	0.50	1.50
	* TOTAL *	262.75

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





**MIN
• EN
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 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 11378C

PAGE : 1 OF 1

DATE : Oct 24/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1484

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
12	ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	72.00
12	ROCK GEOCHEM - AU FIRE	7.25	87.00
12	ROCK SAMPLE PREP	3.00	36.00
		* TOTAL *	195.00

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





ENVIRONMENTAL 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. 7801067 • FAX (604) 980-3621

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 11371C
PAGE : 1 OF 1
DATE : Oct 24/88

ACCOUNT: 10999

ATTENTION: R. SOMERVILLE/H. TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1466

QTY DESCRIPTION	UNIT PRICE	AMOUNT
156 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	936.00
156 ROCK GEOCHEM - AU FIRE	7.25	1131.00
1 ASSAY - AU	8.50	8.50
156 ROCK SAMPLE PREP	3.00	468.00
	SUBTOTAL	2543.50
7 PAGES FAXED (82-1466, 1467, 1484)	0.50	4.50
LONG DISTANCE CALL	8.50	8.50
	* TOTAL *	2556.50

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





**EN
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. 7801067 • FAX (604) 980-9621

TIMMINS OFFICE:
33 EAST IROQUOIS ROAD
P.O. BOX 887
TIMMINS, ONTARIO CANADA P4N 7G7
TELEPHONE: (705) 264-9996

INVOICE

TO: SOMERVILLE GEOLOGICAL & MINING

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

INVOICE No 113720

PAGE : 1 OF 1
DATE : Oct 24/88

ACCOUNT: 10999

ATTENTION: R. SOMERVILLE/H. TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1467

QTY DESCRIPTION

	UNIT PRICE	AMOUNT
58 ROCK GEOCHEM AU FIRE	7.25	420.50
3 ROCK GEOCHEM - AG CU PB ZN MO	6.50	19.50
55 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	330.00
1 ASSAY - AU	8.50	8.50
58 ROCK SAMPLE PREP	3.00	174.00

*** TOTAL * 952.50**

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





**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 10674D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: H.Z.TITTLLEY/R.SOMMERVILLE FILE No: 82-1243

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
45 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	270.00
45 ROCK GEOCHEM - AU FIRE	7.25	326.25
45 ROCK SAMPLE PREP	3.00	135.00

	SUBTOTAL	731.25
3 PAGES FAXED VANCOUVER	0.50	1.50
3 PAGES FAXED TIMMINS	0.50	1.50
LONG DISTANCE CALL	7.50	7.50

	* TOTAL *	741.75

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





**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 10674D
PAGE : 1 OF 1
DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: H.Z.TITTLE/ R.SOMMERVILLE FILE No: 82-1243
PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
45 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	270.00
45 ROCK GEOCHEM - AU FIRE	7.25	326.25
45 ROCK SAMPLE PREP	3.00	135.00

	SUBTOTAL	731.25
3 PAGES FAXED VANCOUVER	0.50	1.50
3 PAGES FAXED TIMMINS	0.50	1.50
LONG DISTANCE CALL	7.50	7.50

	* TOTAL *	741.75

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



**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11059D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY

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

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



**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11059D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITILEY
PROJECT: TIMMINS SHAW

FILE No: 82-1366

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. LONG DISTANCE CALL	0.50	1.00
	7.50	7.50

	* TOTAL *	773.25

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

✓ ✓



**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11139D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITILEY

FILE No: 82-1385

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
44 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	264.00
44 ROCK GEOCHEM - ALI FIRE	7.25	319.00
44 ROCK SAMPLE PREP	3.00	132.00

	* TOTAL *	715.00

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



**MIN.
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11139D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY

FILE No: 82-1385

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
44 ROCK GEOCHEM -- 12 ELEMENT TRACE ICP	6.00	264.00
44 ROCK GEOCHEM -- AU FIRE	7.25	319.00
44 ROCK SAMPLE PREP	3.00	132.00

	* TOTAL *	715.00

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

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11371D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R. SOMERVILLE/H. TITTLE

FILE No: 82-1466

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
156 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	936.00
156 ROCK GEOCHEM - AU FIRE	7.25	1131.00
1 ASSAY - AU	8.50	8.50
156 ROCK SAMPLE PREP	3.00	468.00

	SUBTOTAL	2543.50
9 PAGES FAXED (82-1466, 1467, 1484)	0.50	4.50
LONG DISTANCE CALL	8.50	8.50

	* TOTAL *	2556.50

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

dup



**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11371D
PAGE : 1 OF 1
DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITILEY **FILE No: 82-1466**
PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
156 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	936.00
156 ROCK GEOCHEM - ALL FIRE	7.25	1131.00
1 ASSAY - AU	8.50	8.50
156 ROCK SAMPLE PREP	3.00	468.00

	SUBTOTAL	2543.50
9 PAGES FAXED (82-1466,1467,1484)	0.50	4.50
LONG DISTANCE CALL	8.50	8.50

	* TOTAL *	2556.50

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



**MIN
• EN
LABORATORIES**

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

INVOICE No 11427D

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

PAGE : 1 OF 1
DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITILEY
PROJECT: TIMMINS SHAW

FILE No: 82-1495

QTY DESCRIPTION	UNIT PRICE	AMOUNT
37 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	222.00
37 ROCK GEOCHEM - AU FIRE	7.25	268.25
37 ROCK SAMPLE PREP	3.00	111.00

	SUBTOTAL	601.25
4 PAGES FAXED VANCOUVER	0.50	2.00

	* TOTAL *	603.25

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



**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11427D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITILEY

FILE No: 82-1495

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
37 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	222.00
37 ROCK GEOCHEM - AU FIRE	7.25	268.25
37 ROCK SAMPLE PREP	3.00	111.00

	SUBTOTAL	601.25
4 PAGES FAXED VANCOUVER	0.50	2.00

	* TOTAL *	603.25

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



**MIN
• EN
LABORATORIES**

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. 7801067 • 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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11372D

PAGE : 1 OF 1
DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTELY
PROJECT: TIMMINS SHAW

FILE No: 82-1467

QTY DESCRIPTION	UNIT PRICE	AMOUNT
58 ROCK GEOCHEM AU FIRE	7.25	420.50
3 ROCK GEOCHEM - AG CU PB ZN MO	6.50	19.50
55 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	330.00
1 ASSAY - AU	8.50	8.50
58 ROCK SAMPLE PREP	3.00	174.00

	* TOTAL *	952.50

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

dup.

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11372D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

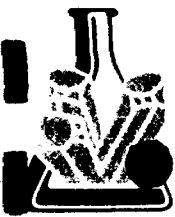
ATTENTION: R.SOMERVILLE/H.TITTLLEY

FILE No: 82-1467

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
58 ROCK GEOCHEM AU FIRE	7.25	420.50
3 ROCK GEOCHEM - AG CU PB 7N MO	6.50	19.50
55 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	330.00
1 ASSAY - AU	8.50	8.50
58 ROCK SAMPLE PREP	3.00	174.00
	* TOTAL *	952.50

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



**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11378D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1484

QTY DESCRIPTION

UNIT PRICE

AMOUNT

12 ROCK GEOCHEM - 12 ELEMENT TRACE ICP

6.00

72.00

12 ROCK GEOCHEM - AU FIRE

7.25

87.00

12 ROCK SAMPLE PREP

3.00

36.00

* TOTAL *

195.00

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

dup.



**MIN
• EN
LABORATORIES**

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. 7801067 • 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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11378D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: B2-1484

QTY DESCRIPTION	UNIT PRICE	AMOUNT
12 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	72.00
12 ROCK GEOCHEM - AU FIRE	7.25	87.00
12 ROCK SAMPLE PREP	3.00	36.00

	* TOTAL *	195.00

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



**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11421D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTLLEY

FILE No: 82-1496

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
55 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	330.00
55 ROCK GEOCHEM - AU FIRE	7.25	398.75
55 ROCK SAMPLE PREP	3.00	165.00

	* TOTAL *	893.75

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





**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11421D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITILEY

FILE No: 82-1496

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
55 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	330.00
55 ROCK GEOCHEM - AU FIRE	7.25	398.75
55 ROCK SAMPLE PREP	3.00	165.00

	* TOTAL *	893.75

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



**MIN
• EN
LABORATORIES**

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11422D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

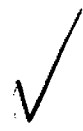
ATTENTION: R.SOMERVILLE/H.TITTLLEY
PROJECT: TIMMINS SHAW

FILE No: 82-1503

QTY DESCRIPTION	UNIT PRICE	AMOUNT
18 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	108.00
18 ROCK GEOCHEM - AU FIRE	7.25	130.50
18 ROCK SAMPLE PREP	3.00	54.00

	* TOTAL *	292.50

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



MIN
• EN

LABORATORIES

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

103-255 W. 1ST AVE.,
NORTH VANCOUVER, B.C.
V7M 3G8

INVOICE No 11422D

PAGE : 1 OF 1

DATE : Aug 03/89

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE/H.TITTELY

FILE No: 82-1503

PROJECT: TIMMINS SHAW

QTY DESCRIPTION	UNIT PRICE	AMOUNT
18 ROCK GEOCHEM - 12 ELEMENT TRACE ICP	6.00	108.00
18 ROCK GEOCHEM - AU FIRE	7.25	130.50
18 ROCK SAMPLE PREP	3.00	54.00

	* TOTAL *	292.50

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

**MIN
• EN
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 1G7
TELEPHONE: (705) 264-8898

INVOICE

TO : SOMERVILLE GEOLOGICAL & MINING

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

COPY
INVOICE No 10959C
PAGE 1 OF 1
DATE : Sep 30/88

ACCOUNT: 10999

ATTENTION: R.SOMERVILLE
PROJECT:

FILE No:

QTY DESCRIPTION	UNIT PRICE	AMOUNT
200 PLASTIC BAGS 12X18	0.21	252.00
2000 PLASTIC TWIST TIES	0.02	40.00
20 BOOKS 2 PART CORE TAGS	3.00	60.00

	* TOTAL *	352.00

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



INVOICE

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

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

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

FILE NO:
PROJECT:

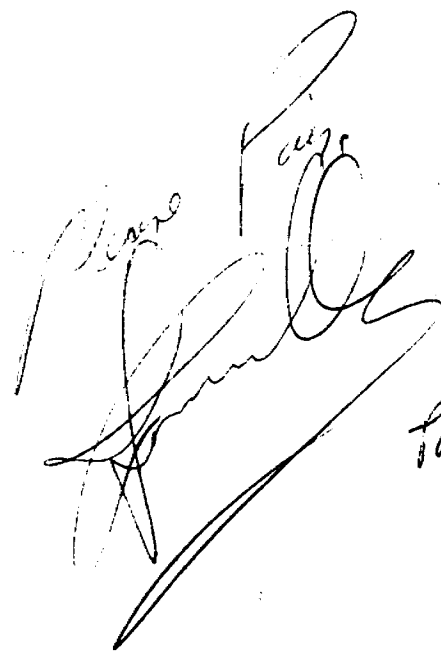
ACCOUNT: 10999

SOMERVILLE GEOLOGICAL & MINING
1052 ESQUIMALT AVE.
WEST VANCOUVER, B.C.
V7T 1J8

ATTENTION: RICK SOMERVILLE

QTY DESCRIPTION	UNIT PRICE	AMOUNT
1200 PLASTIC BAGS 12X18	0.23	276.00
12 BOOBS 2 PART CORE TAGS	3.00	36.00
1250 THERM 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.

Please Pay


✓
Paid RSCM #969 ✓

STATEMENT OF ACCOUNTS

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

PAGE : 1
 DATE : Feb 23/89

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

TO : SOMERVILLE GEOLOGICAL & MINING
 1052 ESQUIMALT AVE.,

ACCOUNT: 10999

WEST VANCOUVER, B.C.
 V7Y 1J8

ATTENTION: ACCOUNTS PAYABLE DEPT.

DATE	DESCRIPTION	DEBIT	CREDIT	BALANCE
Apr 1/88	FORWARD BALANCE			0.00
Apr 15/88	INVOICE # 8503	PAYMENT # 1		312.00
Apr 22/88	PAYMENT # 1		312.00	0.00
Jul 15/88	INVOICE # 9542	* OUTSTANDING *	80.00	80.00
Jul 19/88	INVOICE # 9571	* OUTSTANDING *	10.25	90.25
Jul 19/88	INVOICE # 9589	* OUTSTANDING *	140.63	230.88
Jul 21/88	INVOICE # 9510	* OUTSTANDING *	3.75	234.63
Jul 21/88	INVOICE # 9538	* OUTSTANDING *	117.25	351.88
Jul 25/88	INVOICE # 9569	PAYMENT # 2	50.25	402.13
Jul 28/88	INVOICE # 9709	PAYMENT # 2	81.25	483.38
Aug 10/88	INVOICE # 9955	PAYMENT # 8	67.00	550.38
Aug 19/88	INVOICE # 10114	PAYMENT # 8	64.75	635.13
Aug 25/88	PAYMENT # 3		131.50	503.63
Sep 30/88	INVOICE # 10673	* OUTSTANDING *	357.00	860.63
Sep 30/88	INVOICE # 10674	* OUTSTANDING *	741.75	1602.38
Sep 30/88	INVOICE # 10793	PAYMENT # 3	1283.75	2886.13
Sep 30/88	INVOICE # 10797	PAYMENT # 3	406.25	3292.38
Sep 30/88	INVOICE # 10806	PAYMENT # 3	553.50	3845.88
Sep 30/88	INVOICE # 10807	PAYMENT # 3	42.00	3887.88
Sep 30/88	INVOICE # 10915	PAYMENT # 3	497.00	4384.88
Sep 30/88	INVOICE # 10916	PAYMENT # 3	503.75	4888.63
Sep 30/88	INVOICE # 10917	PAYMENT # 3	308.75	5197.38
Sep 30/88	INVOICE # 10958	PAYMENT # 3	292.50	5489.88
Sep 30/88	INVOICE # 10959	PAYMENT # 3	352.00	5841.88
Sep 30/88	INVOICE # 11039	PAYMENT # 3	1131.75	6973.63
Sep 30/88	INVOICE # 11059	PAYMENT # 3	773.25	7746.88
Oct 10/88	INVOICE # 11139	PAYMENT # 3	715.00	8461.88
Oct 13/88	INVOICE # 11197	PAYMENT # 8	104.75	8566.63
Oct 15/88	INVOICE # 11233	PAYMENT # 3	666.25	9232.88
Oct 15/88	INVOICE # 11235	PAYMENT # 3	1683.25	10916.13
Oct 17/88	INVOICE # 11260	PAYMENT # 8	983.50	11899.63
Oct 18/88	INVOICE # 11273	* OUTSTANDING *	937.13	12836.76
Oct 20/88	INVOICE # 11303	PAYMENT # 5	185.37	13022.13
Oct 24/88	INVOICE # 11371	PAYMENT # 5	2556.50	15578.63
Oct 24/88	INVOICE # 11372	PAYMENT # 5	952.50	16531.13
Oct 24/88	INVOICE # 11378	PAYMENT # 5	195.00	16726.13
Oct 24/88	INVOICE # 11400	PAYMENT # 5	59.75	16785.88
Oct 24/88	INVOICE # 11411	PAYMENT # 5	503.75	17289.63
Oct 26/88	INVOICE # 11421	* OUTSTANDING *	893.75	18183.38
Oct 26/88	INVOICE # 11422	* OUTSTANDING *	292.50	18475.88
Oct 26/88	INVOICE # 11427	* OUTSTANDING *	603.25	19079.13
Oct 27/88	INVOICE # 11447	PAYMENT # 5	595.00	19674.13

CONTINUED ON NEXT PAGE ...

STATEMENT OF ACCOUNTS

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

PAGE : 2
 DATE : Feb 23/89

PHONE: (604) 980-5814 OR 988-4524
 TELEX: VIA USA 7601967 FAX: (604) 980-9621

TO : SOMERVILLE GEOLOGICAL & MINING
 1052 ESGUIMALT AVE.,
 WEST VANCOUVER, B.C.
 V7T 1J8

ACCOUNT: 10999

ATTENTION: ACCOUNTS PAYABLE DEPT.

DATE	DESCRIPTION	DEBIT	CREDIT	BALANCE
------	-------------	-------	--------	---------

CONTINUED FROM PREVIOUS PAGE ...

Oct 30/88	INVOICE #11504	PAYMENT # 5	123.00	19797.13
Oct 30/88	INVOICE #11505	PAYMENT # 5	262.75	20059.88
Nov 1/88	INVOICE #11558	PAYMENT # 5	418.00	20477.88
Nov 1/88	INVOICE #11567	PAYMENT # 5	326.00	20803.88
Nov 1/88	INVOICE #11568	PAYMENT # 5	325.00	21128.88
Nov 4/88	INVOICE #11630	PAYMENT # 4	35.00	21163.88
Nov 9/88	INVOICE #11666	PAYMENT # 6	1285.25	22449.13
Nov 9/88	INVOICE #11673	PAYMENT # 7	693.50	23142.63
Nov 11/88	INVOICE #11721	PAYMENT # 6	457.75	23600.38
Nov 13/88	INVOICE #11753	PAYMENT # 6	269.25	23869.63
Nov 13/88	INVOICE #11756	PAYMENT # 7	273.50	24243.13
Nov 14/88	INVOICE #11774	PAYMENT # 6	910.50	25153.63
Nov 19/88	INVOICE #11847	PAYMENT # 6	340.25	25493.88
Nov 25/88	INVOICE #11909	PAYMENT # 9	190.00	25683.88
Nov 25/88	PAYMENT # 5		9209.00	16474.88
Nov 29/88	INVOICE #11992	* OUTSTANDING *	488.25	16963.13
Nov 29/88	INVOICE #11997	PAYMENT # 9	272.63	17235.76
Nov 29/88	INVOICE #11999	* OUTSTANDING *	472.50	17708.26
Nov 29/88	INVOICE #12003	PAYMENT # 5	158.75	17877.01
Dec 5/88	INVOICE #12038	* OUTSTANDING *	638.87	18515.88
Dec 5/88	PAYMENT # 4		35.00	18480.88
Dec 9/88	INVOICE #12098	* OUTSTANDING *	308.50	18789.38
Dec 10/88	INVOICE #12125	* OUTSTANDING *	157.75	18957.13
Dec 10/88	INVOICE #12127	* OUTSTANDING *	265.50	19243.63
Dec 10/88	INVOICE #12134	* OUTSTANDING *	583.00	19826.63
Dec 10/88	INVOICE #12134	* OUTSTANDING *	263.00	20089.63
Dec 12/88	INVOICE #12152	* OUTSTANDING *	174.25	20263.88
Dec 16/88	INVOICE #12196	* OUTSTANDING *	269.25	20533.13
Dec 16/88	INVOICE #12198	* OUTSTANDING *	393.75	20926.88
Dec 19/88	PAYMENT # 5		6502.62	14424.26
Dec 22/88	INVOICE #12221	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12223	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12224	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12225	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12226	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12227	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12229	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12254	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12255	* OUTSTANDING *	0.00	14424.26

CONTINUED ON NEXT PAGE ...

STATEMENT OF ACCOUNTS

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

PAGE : 3
 DATE : Feb 23/89

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

TO : SOMERVILLE GEOLOGICAL & MINING
 1052 ESQUINALT AVE.,
 WEST VANCOUVER, B.C.
 V7T 1J8

ACCOUNT: 10999

ATTENTION: ACCOUNTS PAYABLE DEPT.

DATE	DESCRIPTION	DEBIT	CREDIT	BALANCE
CONTINUED FROM PREVIOUS PAGE ...				
Dec 22/88	INVOICE #12221 * OUTSTANDING *	342.45		14766.71
Dec 22/88	INVOICE #12223 * OUTSTANDING *	93.50		14860.21
Dec 22/88	INVOICE #12224 * OUTSTANDING *	325.00		15185.21
Dec 22/88	INVOICE #12225 * OUTSTANDING *	141.75		15326.96
Dec 22/88	INVOICE #12226 * OUTSTANDING *	140.50		15467.46
Dec 22/88	INVOICE #12227 * OUTSTANDING *	242.00		15709.46
Dec 22/88	INVOICE #12229 * OUTSTANDING *	440.00		16149.46
Dec 22/88	INVOICE #12254 * OUTSTANDING *	344.50		16493.96
Dec 22/88	INVOICE #12255 * OUTSTANDING *	355.25		16849.21
Dec 28/88	PAYMENT # 9		462.63	16386.58
Dec 28/88	PAYMENT # 8		1240.00	15146.58
Dec 29/88	PAYMENT # 6		3431.75	11714.83
Dec 29/88	PAYMENT # 7		1067.00	10647.83
Jan 3/89	INVOICE #12329 * OUTSTANDING *	32.00		10679.83
* TOTAL *				10679.83

Less cheques #

Balance

2578.20
8101.63

PAID

RS6 M 4 286
March 17 '89

STATEMENT OF ACCOUNTS

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

PAGE : 1
 DATE : Jan 1/89

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

TO : SOMERVILLE GEOLOGICAL & MINING
 1052 ESQUIMALT AVE..

ACCOUNT: 10999

WEST VANCOUVER, B.C.
 V7T 1J8

ATTENTION: ACCOUNTS PAYABLE DEPT.

DATE	DESCRIPTION		DEBIT	CREDIT	BALANCE
Apr 1/88	FORWARD BALANCE				0.00
Apr 15/88	INVOICE # 8503	PAYMENT # 1	312.00		312.00
Apr 22/88	PAYMENT # 1			312.00	0.00
Jul 15/88	INVOICE # 9542	* OUTSTANDING *	80.00		80.00
Jul 19/88	INVOICE # 9571	* OUTSTANDING *	10.25		90.25
Jul 19/88	INVOICE # 9589	* OUTSTANDING *	140.63		230.88
Jul 21/88	INVOICE # 9610	* OUTSTANDING *	3.75		234.63
Jul 21/88	INVOICE # 9638	* OUTSTANDING *	117.25		351.88
Jul 26/88	INVOICE # 9669	PAYMENT # 2	50.25		402.13
Jul 28/88	INVOICE # 9709	PAYMENT # 2	81.25		483.38
Aug 10/88	INVOICE # 9955	PAYMENT # 8	67.00		550.38
Aug 19/88	INVOICE #10114	PAYMENT # 8	84.75		635.13
Aug 25/88	PAYMENT # 2			131.50	503.63
Sep 20/88	INVOICE #10673	* OUTSTANDING *	357.00		860.63
Sep 20/88	INVOICE #10674	* OUTSTANDING *	741.75		1602.38
Sep 30/88	INVOICE #10793	PAYMENT # 3	1283.75		2886.13
Sep 30/88	INVOICE #10797	PAYMENT # 3	406.25		3292.38
Sep 30/88	INVOICE #10806	PAYMENT # 3	553.50		3845.88
Sep 30/88	INVOICE #10807	PAYMENT # 3	42.00		3887.88
Sep 30/88	INVOICE #10915	PAYMENT # 3	497.00		4384.88
Sep 30/88	INVOICE #10916	PAYMENT # 3	503.75		4888.63
Sep 30/88	INVOICE #10917	PAYMENT # 3	308.75		5197.38
Sep 30/88	INVOICE #10958	PAYMENT # 3	292.50		5489.88
Sep 30/88	INVOICE #10959	PAYMENT # 3	352.00		5841.88
Sep 30/88	INVOICE #11039	PAYMENT # 3	1131.75		6973.63
Sep 30/88	INVOICE #11059	PAYMENT # 3	773.25		7746.88
Oct 10/88	INVOICE #11139	PAYMENT # 3	715.00		8461.88
Oct 13/88	INVOICE #11197	PAYMENT # 8	104.75		8566.63
Oct 15/88	INVOICE #11233	PAYMENT # 3	666.25		9232.88
Oct 15/88	INVOICE #11235	PAYMENT # 3	1683.25		10916.13
Oct 17/88	INVOICE #11260	PAYMENT # 8	983.50		11899.63
Oct 18/88	INVOICE #11273	* OUTSTANDING *	937.13		12836.76
Oct 20/88	INVOICE #11303	PAYMENT # 5	185.37		13022.13
Oct 24/88	INVOICE #11371	PAYMENT # 5	2556.50		15578.63
Oct 24/88	INVOICE #11372	PAYMENT # 5	952.50		16531.13
Oct 24/88	INVOICE #11378	PAYMENT # 5	195.00		16726.13
Oct 24/88	INVOICE #11400	PAYMENT # 5	59.75		16785.88
Oct 24/88	INVOICE #11411	PAYMENT # 5	503.75		17289.63
Oct 26/88	INVOICE #11421	* OUTSTANDING *	893.75		18183.38
Oct 26/88	INVOICE #11422	* OUTSTANDING *	292.50		18475.88
Oct 26/88	INVOICE #11427	* OUTSTANDING *	603.25		19079.13
Oct 27/88	INVOICE #11447	PAYMENT # 5	595.00		19674.13

CONTINUED ON NEXT PAGE ...

STATEMENT OF ACCOUNTS

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

PAGE : 2
 DATE : Jan 1/89

PHONE: (604) 980-5814 OR 988-4524
 TELEX: VIA USA 7601967 FAX: (604) 980-9621

TO : SOMERVILLE GEOLOGICAL & MINING
 1052 ESQUIMALT AVE.,

ACCOUNT: 10999

WEST VANCOUVER, B.C.
 V7T 1J9

ATTENTION: ACCOUNTS PAYABLE DEPT.

DATE	DESCRIPTION	DEBIT	CREDIT	BALANCE
CONTINUED FROM PREVIOUS PAGE ...				
Oct 30/88	INVOICE #11504	PAYMENT # 5	123.00	19797.13
Oct 30/88	INVOICE #11505	PAYMENT # 5	262.75	20059.88
Nov 1/88	INVOICE #11558	PAYMENT # 5	418.00	20477.88
Nov 1/88	INVOICE #11567	PAYMENT # 5	326.00	20803.88
Nov 1/88	INVOICE #11568	PAYMENT # 5	325.00	21128.88
Nov 4/88	INVOICE #11630	PAYMENT # 4	35.00	21163.88
Nov 9/88	INVOICE #11666	PAYMENT # 6	1285.25	22449.13
Nov 9/88	INVOICE #11673	PAYMENT # 7	693.50	23142.63
Nov 11/88	INVOICE #11721	PAYMENT # 6	457.75	23600.38
Nov 13/88	INVOICE #11753	PAYMENT # 6	269.25	23869.63
Nov 13/88	INVOICE #11756	PAYMENT # 7	373.50	24243.13
Nov 14/88	INVOICE #11774	PAYMENT # 6	910.50	25153.63
Nov 19/88	INVOICE #11847	PAYMENT # 6	340.25	25493.88
Nov 25/88	INVOICE #11909	PAYMENT # 9	190.00	25683.88
Nov 25/88	PAYMENT # 3		9209.00	16474.88
Nov 29/88	INVOICE #11992	* OUTSTANDING *	488.25	16963.13
Nov 29/88	INVOICE #11997	PAYMENT # 9	272.63	17235.76
Nov 29/88	INVOICE #11999	* OUTSTANDING *	472.50	17708.26
Nov 29/88	INVOICE #12003	PAYMENT # 6	168.75	17877.01
Dec 5/88	INVOICE #12038	* OUTSTANDING *	638.87	18515.88
Dec 5/88	PAYMENT # 4		35.00	18480.88
Dec 9/88	INVOICE #12098	* OUTSTANDING *	308.50	18789.38
Dec 10/88	INVOICE #12125	* OUTSTANDING *	167.75	18957.13
Dec 10/88	INVOICE #12127	* OUTSTANDING *	386.50	19243.63
Dec 10/88	INVOICE #12134	* OUTSTANDING *	583.00	19826.63
Dec 10/88	INVOICE #12135	* OUTSTANDING *	263.00	20089.63
Dec 12/88	INVOICE #12152	* OUTSTANDING *	174.25	20263.88
Dec 16/88	INVOICE #12196	* OUTSTANDING *	269.25	20533.13
Dec 16/88	INVOICE #12198	* OUTSTANDING *	373.75	20926.88
Dec 19/88	PAYMENT # 5		6502.62	14424.26
Dec 22/88	INVOICE #12221	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12223	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12224	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12225	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12226	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12227	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12229	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12254	* OUTSTANDING *	0.00	14424.26
Dec 22/88	INVOICE #12255	* OUTSTANDING *	0.00	14424.26

CONTINUED ON NEXT PAGE ...

STATEMENT OF ACCOUNTS

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

PAGE : 3
 DATE : Jan 1/89

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

TO : SOMERVILLE GEOLOGICAL & MINING
 1052 ESQUIMALT AVE.,

ACCOUNT: 10999

WEST VANCOUVER, B.C.
 V7T 1J8

ATTENTION: ACCOUNTS PAYABLE DEPT.

DATE	DESCRIPTION	DEBIT	CREDIT	BALANCE
CONTINUED FROM PREVIOUS PAGE ...				
Dec 22/88	INVOICE #12221 * OUTSTANDING *	342.45		14766.71
Dec 22/88	INVOICE #12223 * OUTSTANDING *	93.50		14860.21
Dec 22/88	INVOICE #12224 * OUTSTANDING *	325.00		15185.21
Dec 22/88	INVOICE #12225 * OUTSTANDING *	141.75		15326.96
Dec 22/88	INVOICE #12226 * OUTSTANDING *	140.50		15467.46
Dec 22/88	INVOICE #12227 * OUTSTANDING *	242.00		15709.46
Dec 22/88	INVOICE #12229 * OUTSTANDING *	440.00		16149.46
Dec 22/88	INVOICE #12254 * OUTSTANDING *	344.50		16493.96
Dec 22/88	INVOICE #12255 * OUTSTANDING *	355.25		16849.21
Dec 28/88	PAYMENT # 9		462.63	16386.58
Dec 28/88	PAYMENT # 8		1240.00	15146.58
Dec 29/88	PAYMENT # 6		3431.75	11714.83
Dec 29/88	PAYMENT # 7		1067.00	10647.83
	* TOTAL *			10647.83



APPENDIX III
REPORT OF WORK

Mining Act

Type of Work(s): **GEOCHEMICAL SAMPLING** Township or Area: **SHAW TOWNSHIP**
 Claim Holder(s): **ATM Metals LTD** Prospector's Licence No.: **T4857**
 Address: **SUITE 1500 700 WEST PENDER ST VANCOUVER B.C. V6C1G8**

Survey Company: **R. Somerville Geological & Mining Eng. LTD** Date of Survey (from & to): **27 09 88 30 10 88** Total Miles of line Cut: _____
 Name and Address of Author (of Geo-Technical report): **R. Somerville 57c 103 - 255 W 1st St. N. Vancouver B.C. V7M1G8**

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	
	Magnetometer	
	Radiometric	
	Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	
	Other	
	Geological	
	Geochemical	
Airborne Credit Note: Special provisions credits do not apply to Airborne Surveys.	Geophysical	Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	1035392	60	P	1034561	60
	1035393	60		1034562	60
	1035394	60		1013709	60
	1013707	60		867314	80
	1035395	60		867311	80
	1035396	60		867312	80
	1035397	60		867313	80
	1013708	60		867302	80
	1014000	60		867303	80
	1013710	60		867304	80
	1013994	60		867305	80
	1013711	60		867306	80
	1013995	60		867307	80
	1013716	60		867308	80
	867316	80		867309	80
	867315	*		867310	80
	867315	80		867301	80
	867314	80		867321	80
	866694	80		867317	80
	866695	80		867325	80
	866696	80		867322	80
	866697	80		1026691	80

Expenditures (excludes power stripping)
 Type of Work Performed: **Sampling Plugger & Rockchip Geochemical**
 Performed on Claim(s): **P103 5392 - 97 incl, 1013 707, -708, -710, -711, -716, 1013994, 1013 995, 1014000, 867 315, 867316, 1026692, 866694-97 incl, 867305**
 Calculation of Expenditure Days Credits: **867310, 867312**
 Total Expenditure: **\$ 51,677.17** ÷ **15** = **3445** 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.

Total number of mining claims covered by this report of work: **48**
 Listed on **2** pages

For Office Use Only
 Total Days Cr. Recorded: _____ Date Recorded: _____ Mining Recorder: _____
 Date Approved as Recorded: _____

Date: **Aug 4 1989** Recorder's 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 on the above named claim during and/or after its compilation and the annexed report is true.

Name and Postal Address of Person Certifying: **R. Somerville - 103-255 west 1st St. North Vancouver B.C. V7M1G8**
 Date Certified: _____ Certified by Signature: _____

Mining Act

Type of Survey(s) **GEOCHEMICAL SAMPLING** Township or Area _____

Claim Holder(s) _____ Prospector's Licence No. _____

Address _____

Survey Company _____ Date of Survey (from & to) _____ Total Miles of line Cut _____
Day | Mo. | Yr. | Day | Mo. | Yr.

Name and Address of Author (of Geo-Technical report)
P. Somerville 103 - 255 W 15th St N. Vancouver B.C.

Credits Requested per Each Claim in Columns at right

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

Note: Special provisions credits do not apply to Airborne Surveys.

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim		Expend. Days Cr.
	Number		
P	867323	80	
	857050	80	
	857049	80	
	857048	80	
	857047	25	

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.

P 2 of 2

Total number of mining claims covered by this report of work. **48**

Listed on 2 pages

For Office Use Only

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

Date _____ Recorded Holder or Agent (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 and witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
P. Somerville - 103 - 255 West 15th St. Vancouver B.C.



APPENDIX IV

CERTIFICATE

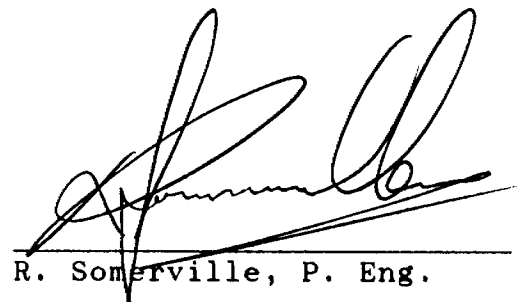
CERTIFICATE

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 103 - 255 W 1st Street, North Vancouver, B.C., V7M 3G8.
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. (hon) 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
September 1, 1989




R. Somerville, P. Eng.

Qual. 2.11829

Amendment to
REPORT OF WORK
DOCUMENT NO



42A06NE0350 2.12785 SHAW

900



Ministry of Northern Development and Mines

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

Page 1 of 2

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.

DOCUMENT No. W 8906-362

Mining Act

Type of Survey: **GEOCHEMICAL SAMPLING** Township or Area: **SHAW TOWNSHIP**

Claim Holder(s): **AIM Metals Ltd** Prospector's Licence No.: **T4857**

Address: **SUITE 1500 700 WEST PENDER ST VANCOUVER B.C. V6C1G8**

Survey Company: **R. Somerville Geological & Mining Eng. Ltd** Date of Survey (from & to): **27 09 88 30 10 88** Total Miles of line Cut:

Name and Address of Author (of Geo-Technical report): **R. Somerville Ste 103 - 255 W 1st St. N. Vancouver B.C. V7M1G8**

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey, using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) there	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Surveys 1989		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	- Electromagnetic	
	- Magnetometer	
	- Radiometric	

RECORDED
AUG 9 1989

Expenditures (excludes power stripping) **Analysis Sampling**

Type of Work Performed: **Plugging & Rockchip Geochemical**

Performed on Claim(s): **P103 5392 - 97 incl, 1013 707, -708, -710, -711, -716, 1013914, 1013995, 1014000, 867 315, 867316, 1026692, 866694-97 incl, 867305**

Calculation of Expenditure Days Credits: **867310, 867312**

Total Expenditure Days Credits: **17,715.75**

$\$51,677.17 \div 15 = 3445$

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.

Mining Claims Traversed (List in numerical sequence)			Mining Claim		
Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
P	1035392	40	P	1034561	60
	1035393	20		1034562	60
	1035394	40		1013709	60
→	1013707	60		867314	80
	1035395	40		867311	80
	1035396	20		867312	80
	1035397	20		867313	80
	1013708	60		867302	80
	1014000	60		867303	80
	1013710	60		867304	80
	1013994	60		867305	80
	1013711	60		867306	80
	1013995	60		867307	80
	1013716	60		867308	80
	867316	40		867309	80
	867313			867310	80
	867315	80		867301	80
	867314	80		867321	80
	866694	80		867317	80
	866695	80		867325	80
	866696	80		867322	80
	866697	80		1026691	80

MAX. REACHED - NOT ALLOWED SEE SECTION 77(19) Total number of mining claims covered by this report of work: **28**

For Office Use Only

Total Days Cr. Recorded: **3445** Date Recorded: **AUG. 9 / 89** Mining Order: **1381**

Date Approved as Recorder: **11/81** Branch Section: **See revised work statement**

Date: **Aug 4 / 89** Recorder: **[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. Somerville - 103-255 west 1st St. North Vancouver B.C. V7M1G8**

Date Certified: **Aug 4 / 89** Certified by: **[Signature]**

Note: - exceeds space on this form, attach a list. - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns. - Do not use shaded areas below.

Type of Survey(s) **GEOCHEMICAL SAMPLING** Township or Area _____

Claim Holder(s) _____ Prospector's Licence No. _____

Address _____

Survey Company _____ Date of Survey (from & to) _____ Total Miles of line Cut _____
 Day | Mo. | Yr. | Day | Mo. | Yr.

Name and Address of Author (of Geo-Technical report)
R. Somerville 103 - 255 W 15th St N. Vancouver B.C.

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	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	
	Geochemical	

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

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	867323	8040			
	857050	8040			
	857049	8040			
	*857048	80			
	*857047	25			

Expenditures (excludes power stripping) _____

Type of Work Performed _____

Performed on Claim(s) **AUG 9 1989**

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.

Date _____ Recorded Holder or Agent (Signature) _____

For Office Use Only

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

Total number of mining claims covered by this report of work. **48**

Listed on 2 pages

Certification Verifying Report of Work

I hereby certify that I have 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

Certification verified by _____

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. Somerville - 103-255 West 15th St. North Vancouver B.C. V7M 1A8

Date Certified **Aug 4/89** Certified by _____

RECEIVED
 OCT 19 1989



Ontario

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

December 27, 1989

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

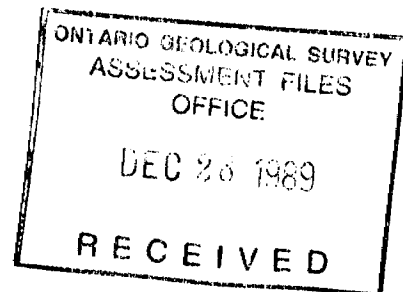
Re: Notice of Intent dated November 23, 1989 for Geochemical Survey
and Assaying submitted on Mining Claims in Shaw Township.

Mining Lands Section
880 Bay Street, 3rd Floor
Toronto, Ontario
M5S 1Z8

Telephone: (416) 965-4888

Your File: W8906-489,490

Our File: 2.12785



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,

W.R. Cowan
Provincial Manager, Mining Lands
Mines & Minerals Division

AS
LS:eb
Enclosure

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

Resident Geologist
Timmins, Ontario

AJM Metals Ltd.
1500-700 West Pender Street
Vancouver B.C.
V6C 1G8

R. Somerville
103-255 West 1st Street
North Vancouver, B.C.
V7M 3G8



Recorded Holder
AJM METALS LTD.

Township or Area
SHAW TOWNSHIP.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	P 866694 to 97 incl.
Magnetometer _____ days	867303 to 305 incl.
Radiometric _____ days	867309-10
Induced polarization _____ days	867312-13
Other _____ days	867315-16
Section 77 (19) See "Mining Claims Assessed" column	1013707 to 711 incl.
Geological _____ days	1013716
Geochemical _____ 40 _____ days	1013994-95
Man days <input checked="" type="checkbox"/> Airborne <input type="checkbox"/>	1014000
Special provision <input type="checkbox"/> Ground <input checked="" type="checkbox"/>	1026692
<input type="checkbox"/> Credits have been reduced because of partial coverage of claims.	1034561
<input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	1035392 to 397 incl.

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

Note: Claim P 867304 added to list because there were samples on it while claim P 867314 was dropped from list as no samples were reported on this claim.

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) - 60.



File
2.12785

Date
Nov 23, 1989

Mining Recorder's Report of
Work No.
W8906-489

Recorded Holder
AJM METALS LTD.

Township or Area
SHAW TOWNSHIP.

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
<p>Geophysical</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 _____ days</p> <p>Man days <input 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>\$17,715.75 spent on Assaying Samples taken from Mining Claims:</p> <p>P 866694 to 697 incl. 867303 to 305 incl. 867309-10 867312-13 867315-16 1013707 to 711 incl. 1013994-95 1014000 1026692 1034561 1035392 to 397 incl.</p> <p>1181 days credit allowed which may be grouped in accordance with Section 76(6) of the Mining Act R.S.O. 1980.</p>

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) - 60.



TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOCHEMICAL
Township or Area SHAW
Claim Holder(s) R. Somerville / D.E.
Survey Company RSGM Engineering LTD
Author of Report R. Somerville P. Eng
Address of Author 103-255 West 1st St N. Vancouver B.C. V6M3G8
Covering Dates of Survey 27/00/88 to 30/10/88
Total Miles of Line Cut _____

MINING CLAIMS TRAVERSED
List numerically
P 866694-97 incl.
P 867303, 05
P 867309, 10
P 867312-16 incl.
P 1013707-11 incl.
P 1013716
P 1013994-95
P 1014000
P 1026697
P 1034561
P 1035392-97
TOTAL CLAIMS 30

SPECIAL PROVISIONS CREDITS REQUESTED
Geophysical: Electromagnetic, Magnetometer, Radiometric, Other
Geological
Geochemical
DAYS per claim

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Sept 15/89 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 2.11829

Previous Surveys table with columns: File No., Type, Date, Claim Holder

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters - On time _____ Frequency _____

- Off time _____ Range _____

- Delay time _____

- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

6+00 W

0+00

20+00 N

16+00 N

12+00 N

8+00 N

4+00 N

0+00



SCALE 1" = 200'

QUIET
∴ GOOD.
GRID No 6

ANOMALY NO. 6
63.4827 (duplicate)
(8)

MAP SYMBOLOLOGY

Aerial Cableway	Pipeline
Boundary	(lease ground)
International	Railroad
Interprovincial	Single Track
District, Township	Double Track
Indian Reserve	Abandonment
Approach	Turbine
Lot, Concession	Road
Appropriation	Highway, County
Part Boundary	Township
Bridge	Access Road of negligible importance or insignificant driveway
Road, Railroad	Trail, Bush Road (Leisure Alley)
Building	Rapids
Chimney	Double line river with multiple rapids
Cliff, Pit, Pile	Reservoir
Contours	River, Stream, Canal
Interpretation	Approximate (seasonal) location of flow
Approximate	Track
Control Points	Spot Elevation (near elevation) 300.0
Horizontal	Tower
Vertical	Transmission Line
Culvert	Palisade
Falls	Palisade
Dam	Tunnel
Down the river	Utility Poles
Fence, Hedge, Wall	Wharf, Dock, Pier
Feature Outline (Construction features, etc.)	Wooded Area
Flooded Land	
Lock	
Marsh or Swamp	
Mast	
Mini Head Frame	
Outcrop	

AREAS WITHDRAWN FROM DISPOSITION

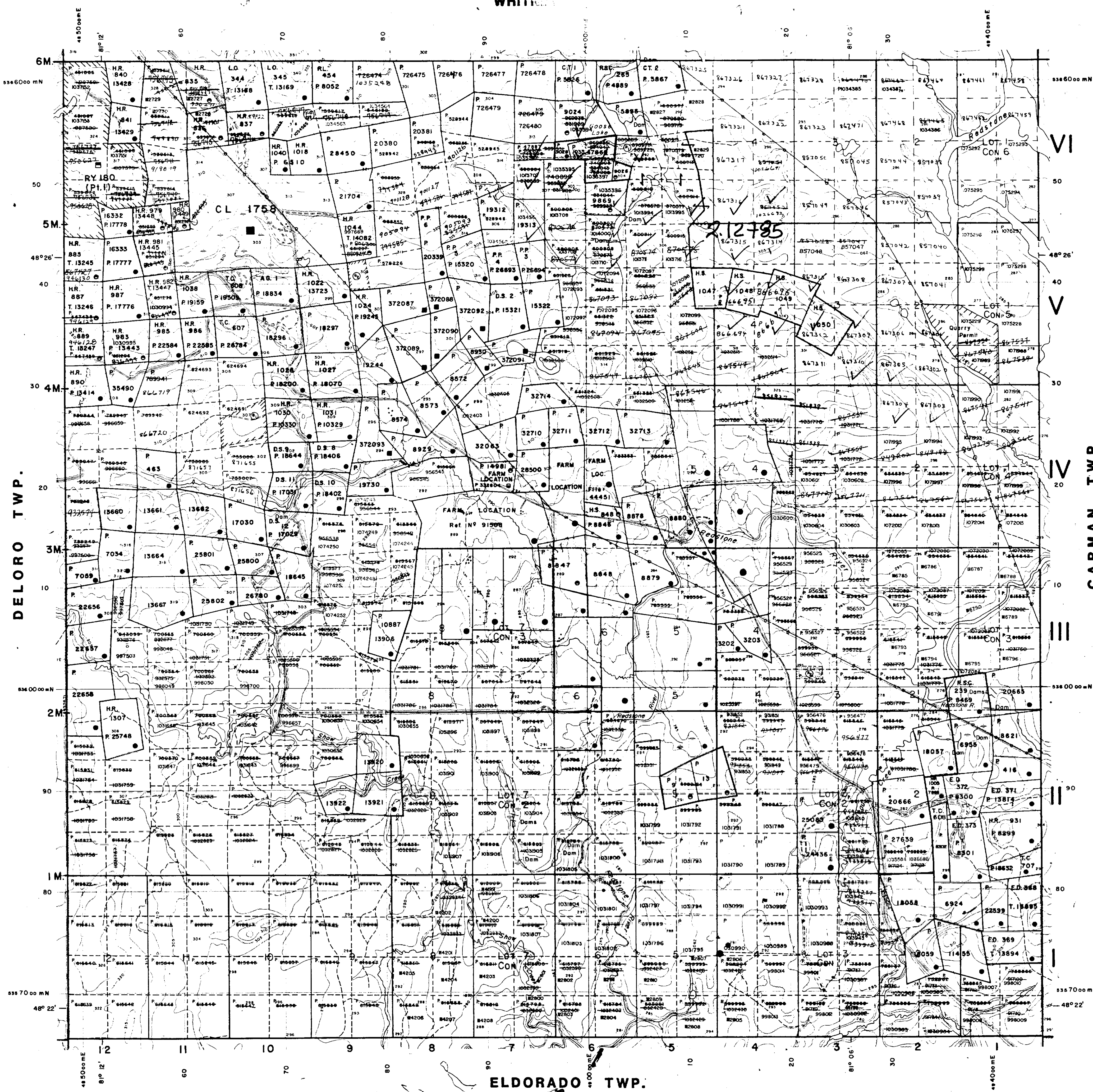
M.R.O. - MINING RIGHTS ONLY
 S.R.O. - SURFACE RIGHTS ONLY
 M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
Rec. Purp.	Sec. 3 P.L.A.			188545
	W. 97/77	15/12/77	S.R.O.	86555
Required N.R.O. #40185				

SAND AND GRAVEL

- GRAVEL 58665
- GRAVEL 68760

WHITNEY



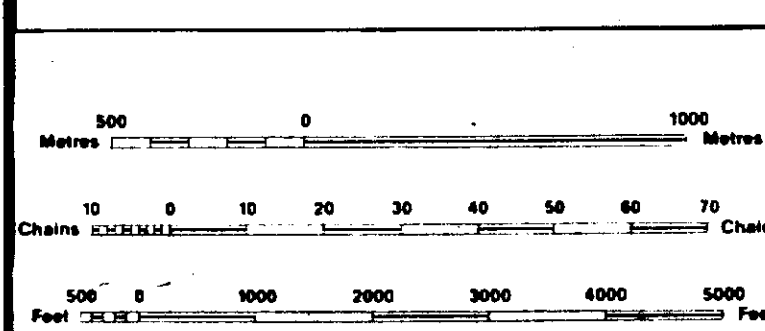
LEGEND

HIGHWAY AND ROUTE No.	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINES, ETC.	
LOTS, MINING CLAIMS, PARCELS, ETC.	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARIES	
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	

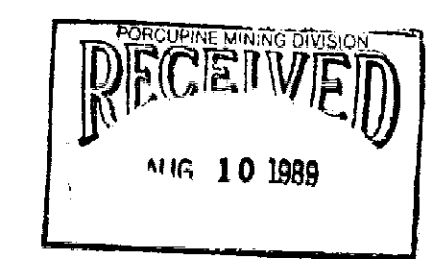
DISPOSITION OF CROWN LANDS

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	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 390, SEC. 83, SUBSEC. 1.



SCALE 1:20 000
 GRID ZONE 17

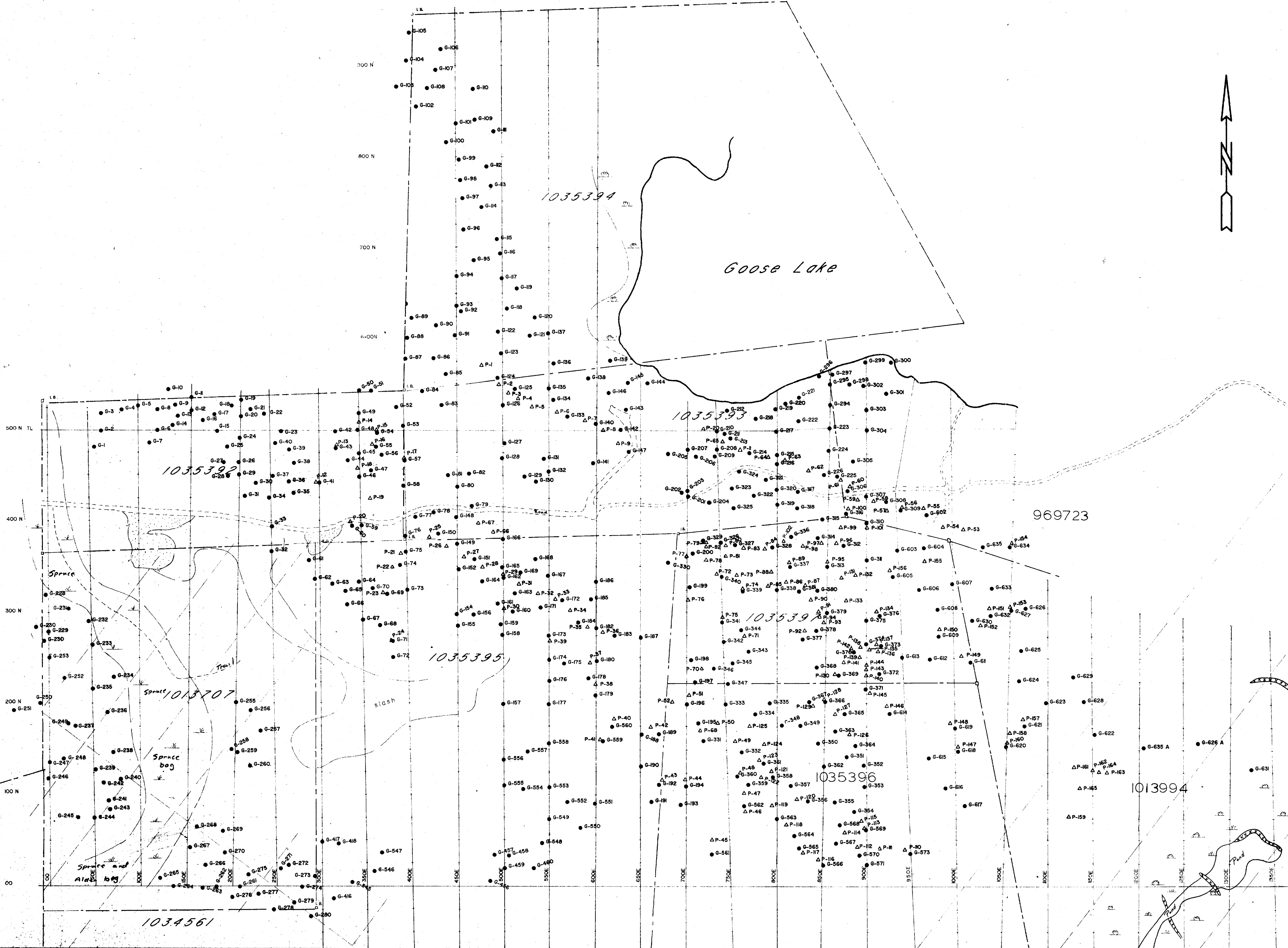
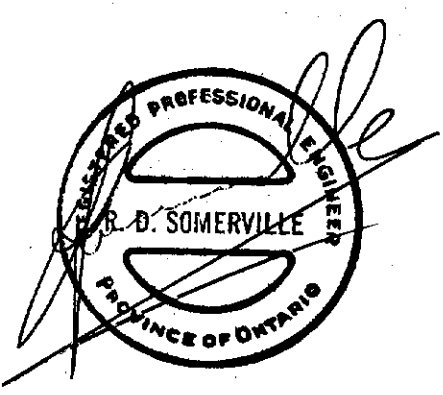


TOWNSHIP
SHAW
 M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
COCHRANE

Ministry of Natural Resources
 Land Management Branch
 Ontario
 2746.

ORIGINAL COMPILED JULY 1984
 REVISED UNDATED BY
G-3999

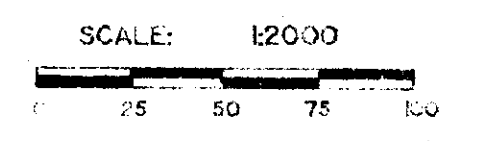




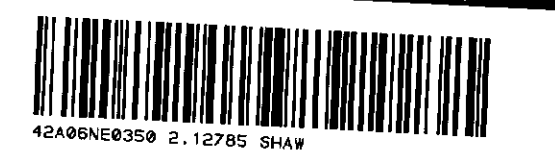
- GRAB SAMPLES Δ
- PLUGGER DUST SAMPLE \bullet
- CUT OR FILL CREST - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE \circ
- FENCE - - - - -
- POWER LINE - - - - -
- RAILWAY AND RIGHT OF WAY - - - - -

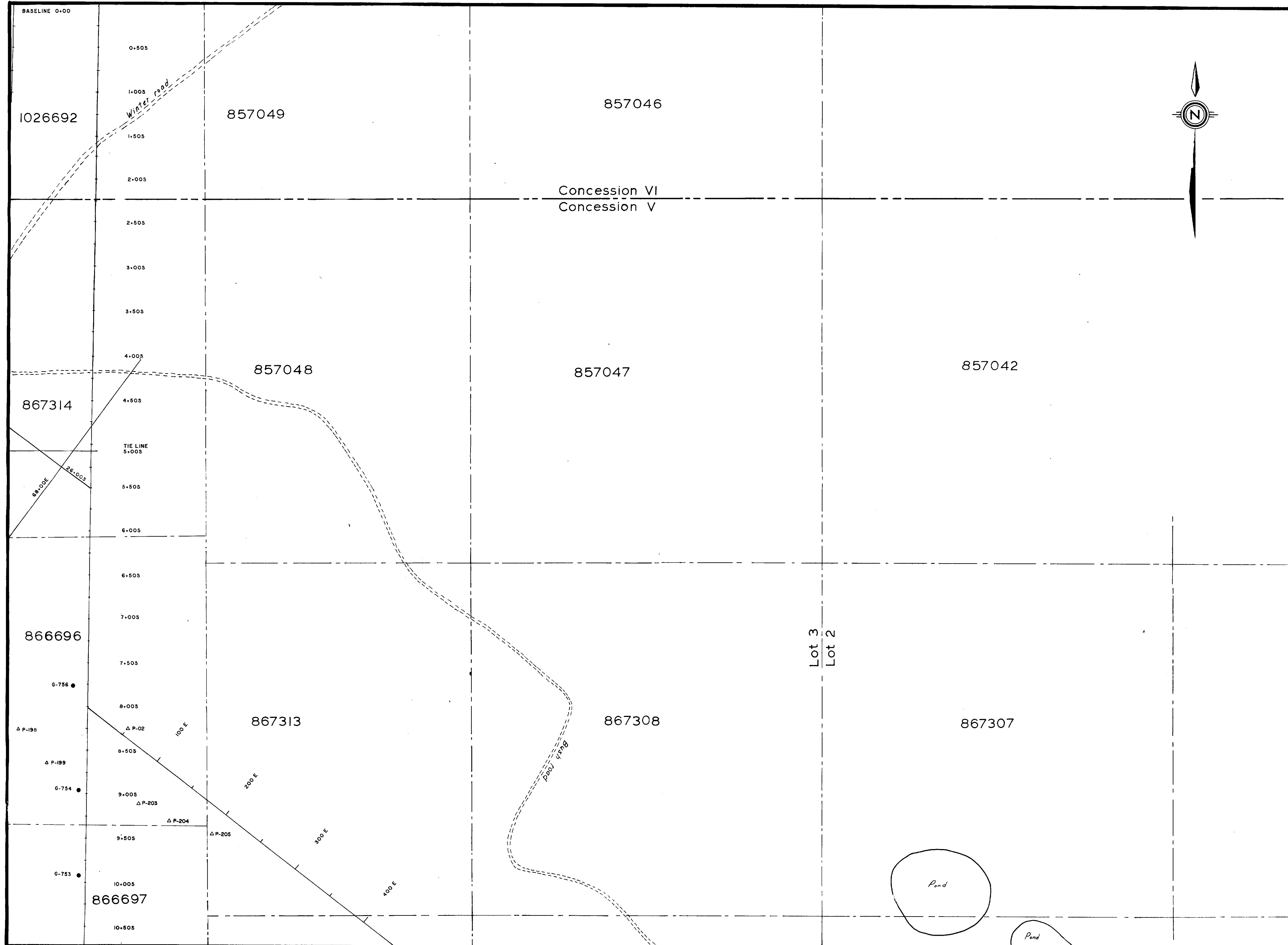
SHEET INDEX

E	D	C
A1	A2	A3
B1	B2	B3
C1	C2	C3
D1	D2	D3
E1	E2	E3
F1	F2	F3
G1	G2	G3

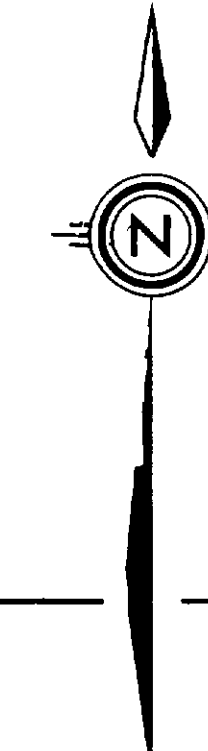


2-12785
R. SOMERVILLE ENGINEERING LTD.
 TOTAL ENERGOLD CORPORATION
 ROCK GEOCHEM SURVEY
 Shaw #1 Group
 Shaw Township, Ontario
 MAP No. A-13 FLATE No. 1
 by: R. Somerville P.Eng.
 DATE: September 15, 1989.





LEGEND



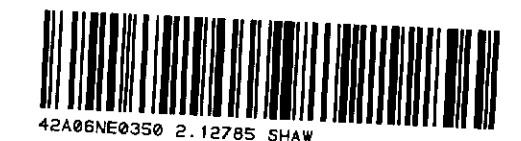
- PLUGGER DUST SAMPLE ●
- GRAB SAMPLES ▲
- CLAIM BOUNDARY ———
- TOE ———
- DIAMOND DRILL HOLE ○
- FENCE — x — x —
- POWER LINE —●—●— RED
- RAILWAY AND RIGHT OF WAY ——— SMALL SCALE ——— LARGE SCALE ———

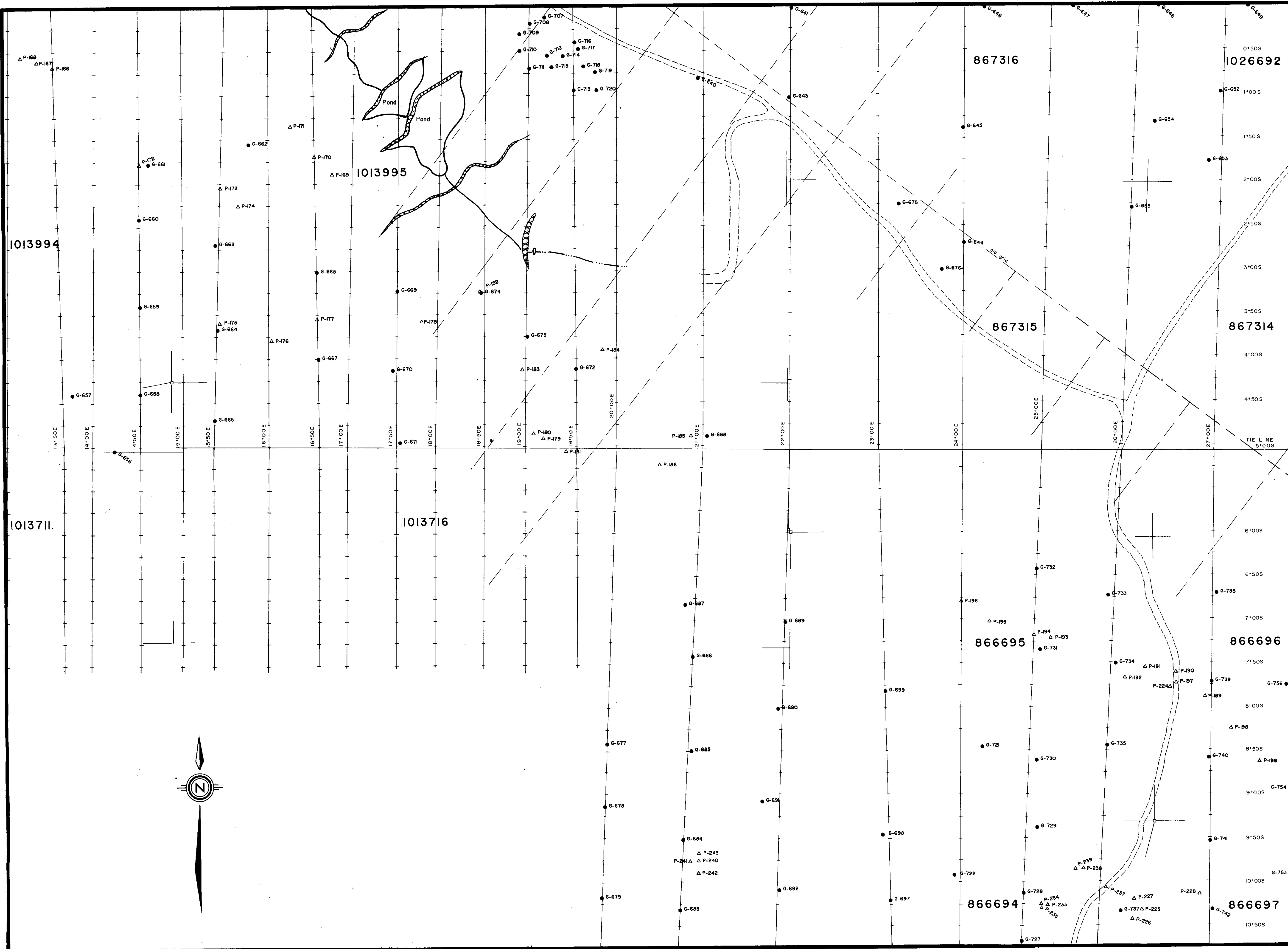
SHEET INDEX

E	D	C																																			
	<table border="1"> <tr> <td>A1</td> <td>A2</td> <td>A3</td> <td>A4</td> <td>A5</td> <td></td> <td></td> </tr> <tr> <td>A10</td> <td>A9</td> <td>A8</td> <td>A7</td> <td>A6</td> <td>b3</td> <td>b4</td> </tr> <tr> <td>A8</td> <td>A12</td> <td>A</td> <td>A14</td> <td>A15</td> <td></td> <td>B</td> </tr> <tr> <td>A20</td> <td>A19</td> <td>A18</td> <td>A17</td> <td>A16</td> <td>b2</td> <td>b1</td> </tr> <tr> <td>A21</td> <td>A22</td> <td>A23</td> <td>A24</td> <td>A25</td> <td></td> <td></td> </tr> </table>	A1	A2	A3	A4	A5			A10	A9	A8	A7	A6	b3	b4	A8	A12	A	A14	A15		B	A20	A19	A18	A17	A16	b2	b1	A21	A22	A23	A24	A25			
A1	A2	A3	A4	A5																																	
A10	A9	A8	A7	A6	b3	b4																															
A8	A12	A	A14	A15		B																															
A20	A19	A18	A17	A16	b2	b1																															
A21	A22	A23	A24	A25																																	
F																																					
G	H	I																																			

SCALE: 1:2000

R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A-16 PLATE No. 1
 By: R. Somerville P. Eng.
 DATE: September 15, 1989.





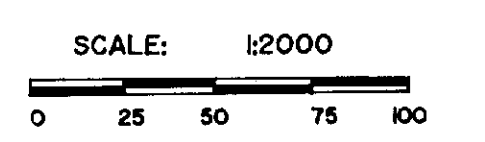
LEGEND



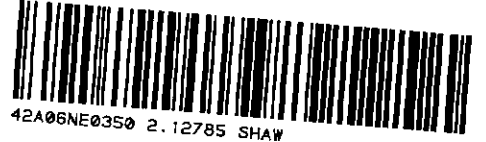
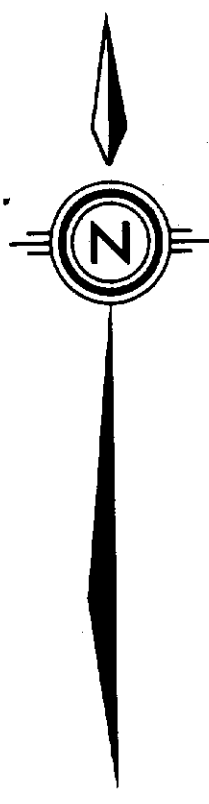
- PLUGGER DUST SAMPLES ●
- GRAB SAMPLES △
- Tr- trench or pit
- CLAIM POST □
- CLAIM BOUNDARY ————
- TOE ————
- DIAMOND DRILL HOLE ○
- FENCE ————
- POWER LINE ———— RED
- RAILWAY AND RIGHT OF WAY ————
- SMALL SCALE ————
- LARGE SCALE ————

SHEET INDEX

E	D	C																																			
	<table border="1"> <tr> <td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td> <td>b3</td><td>b4</td> </tr> <tr> <td>A10</td><td>A9</td><td>A8</td><td>A7</td><td>A6</td> <td></td><td></td> </tr> <tr> <td>A11</td><td>A12</td><td>A11</td><td>A14</td><td>A15</td> <td>B</td><td></td> </tr> <tr> <td>A20A19</td><td>A18</td><td>A17</td><td>A16</td><td>A15</td> <td>b2</td><td>bl</td> </tr> <tr> <td>A21</td><td>A22</td><td>A21</td><td>A24</td><td>A25</td> <td></td><td></td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A10	A9	A8	A7	A6			A11	A12	A11	A14	A15	B		A20A19	A18	A17	A16	A15	b2	bl	A21	A22	A21	A24	A25			
A1	A2	A3	A4	A5	b3	b4																															
A10	A9	A8	A7	A6																																	
A11	A12	A11	A14	A15	B																																
A20A19	A18	A17	A16	A15	b2	bl																															
A21	A22	A21	A24	A25																																	
F																																					
G	H	I																																			



2.12785
R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. **A 17** PLATE No. **1**
 BY: R. Somerville P. Eng.
 DATE: September 15, 1989.





1034561

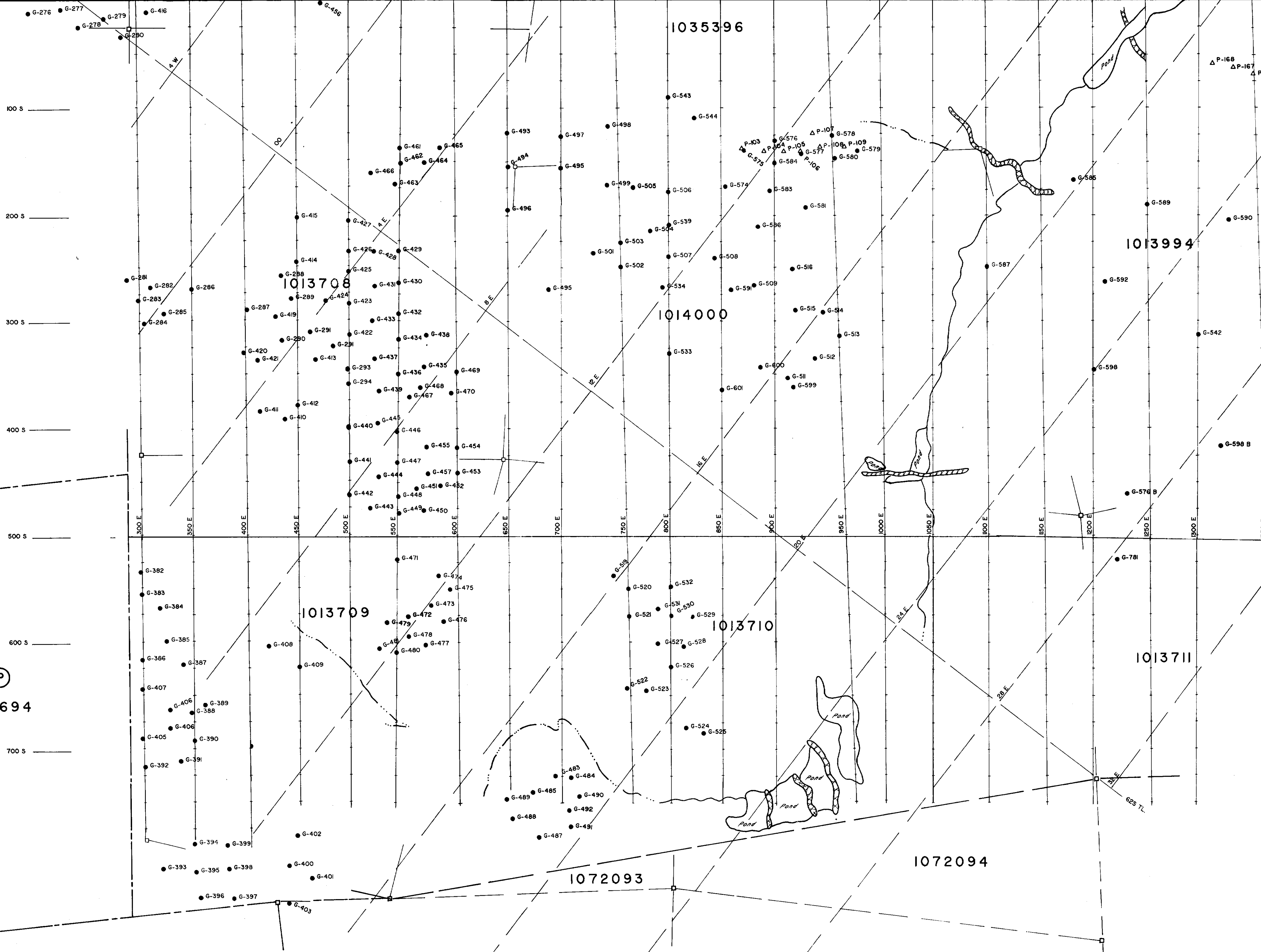
1034562

(P) 26693

(P) 26694

(P) 15321

(P) 15322



- GRAB SAMPLES Δ
- PLUGGER DUST SAMPLE \bullet
- CUT OR FILL CREST $- - -$
- TOE $|| || || || ||$
- DIAMOND DRILL HOLE \odot
- FENCE $\times \times \times$
- POWER LINE $\bullet \bullet \bullet$ RED
- RAILWAY AND RIGHT OF WAY $+$ SMALL SCALE
- $+$ LARGE SCALE

SHEET INDEX

E	D	C
	A1 A2 A3 A4 A5 A10 A9 A8 A7 A6	b3 b4
F	A1 A2 A3 A4 A5 A10 A9 A8 A7 A6	B b1
G	H	I

SCALE: 1:2000

2.12785

R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM. SURVEY
TOTAL ENERGOLD CORPORATION

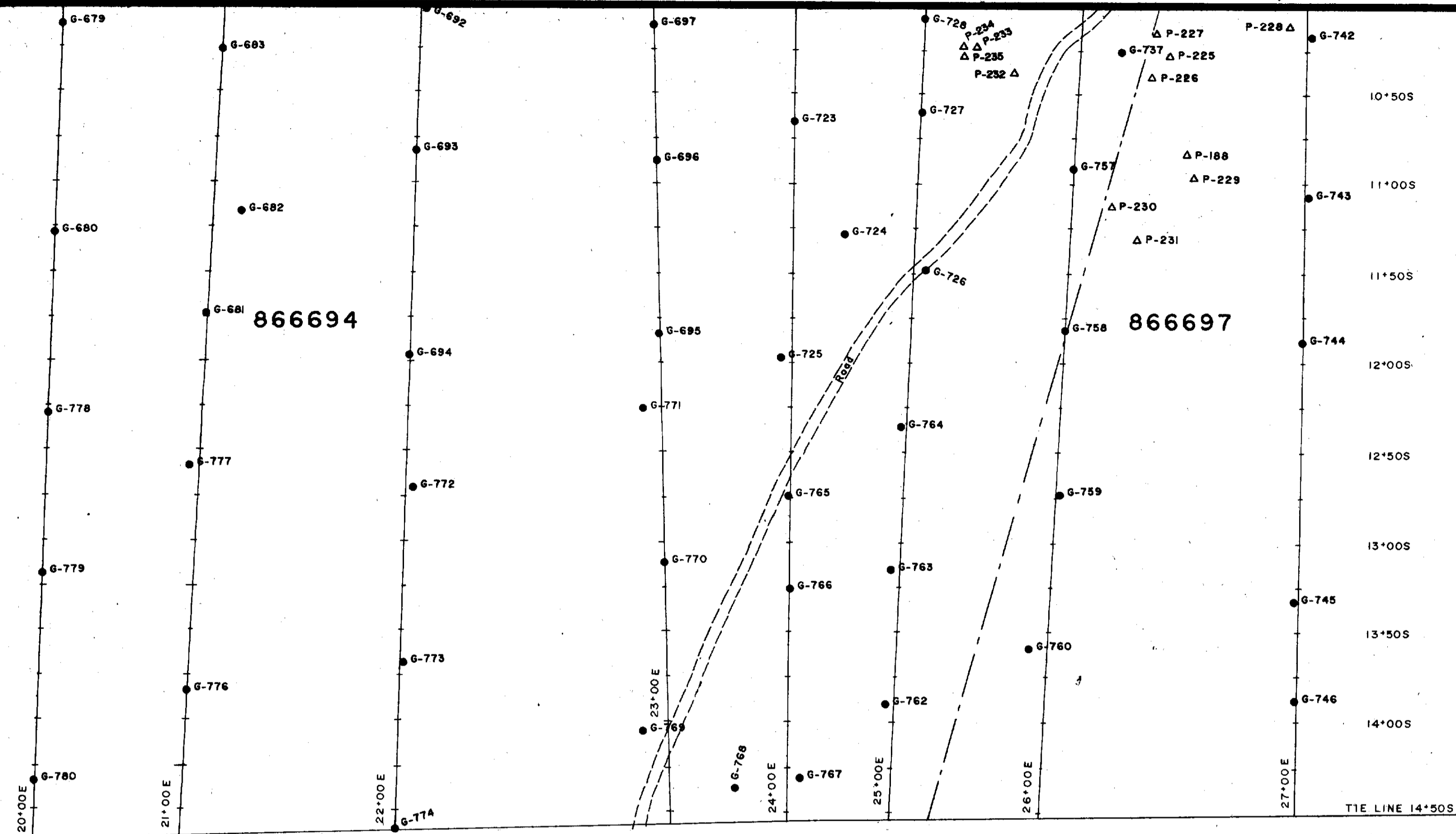
Shaw #1 Property
Shaw Twp., Ontario
Porcupine Mining Division

MAP No. A-18 PLATE No. 1

DRAWN BY: R. Somerville P. Eng.

DATE: September 15, 1984





LEGEND



- GRASS
- ALDERS
- Tr- trench or pit
- CLAIM POST
- CLAIM BOUNDARY
- TOE
- DIAMOND DRILL HOLE
- FENCE
- POWER LINE
- RAILWAY AND RIGHT OF WAY

SHEET INDEX

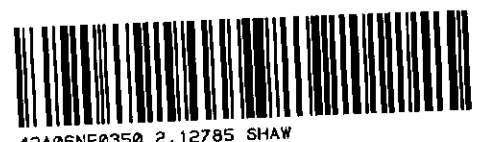
E	D	C																								
	<table border="1"> <tr> <td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td> <td rowspan="2">b3</td> <td rowspan="2">b4</td> </tr> <tr> <td>A6</td><td>A7</td><td>A8</td><td>A9</td><td>A10</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td rowspan="2">b2</td> <td rowspan="2">b1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A6	A7	A8	A9	A10						b2	b1						
A1	A2	A3	A4	A5	b3	b4																				
A6	A7	A8	A9	A10																						
					b2	b1																				
F																										
G	H	I																								

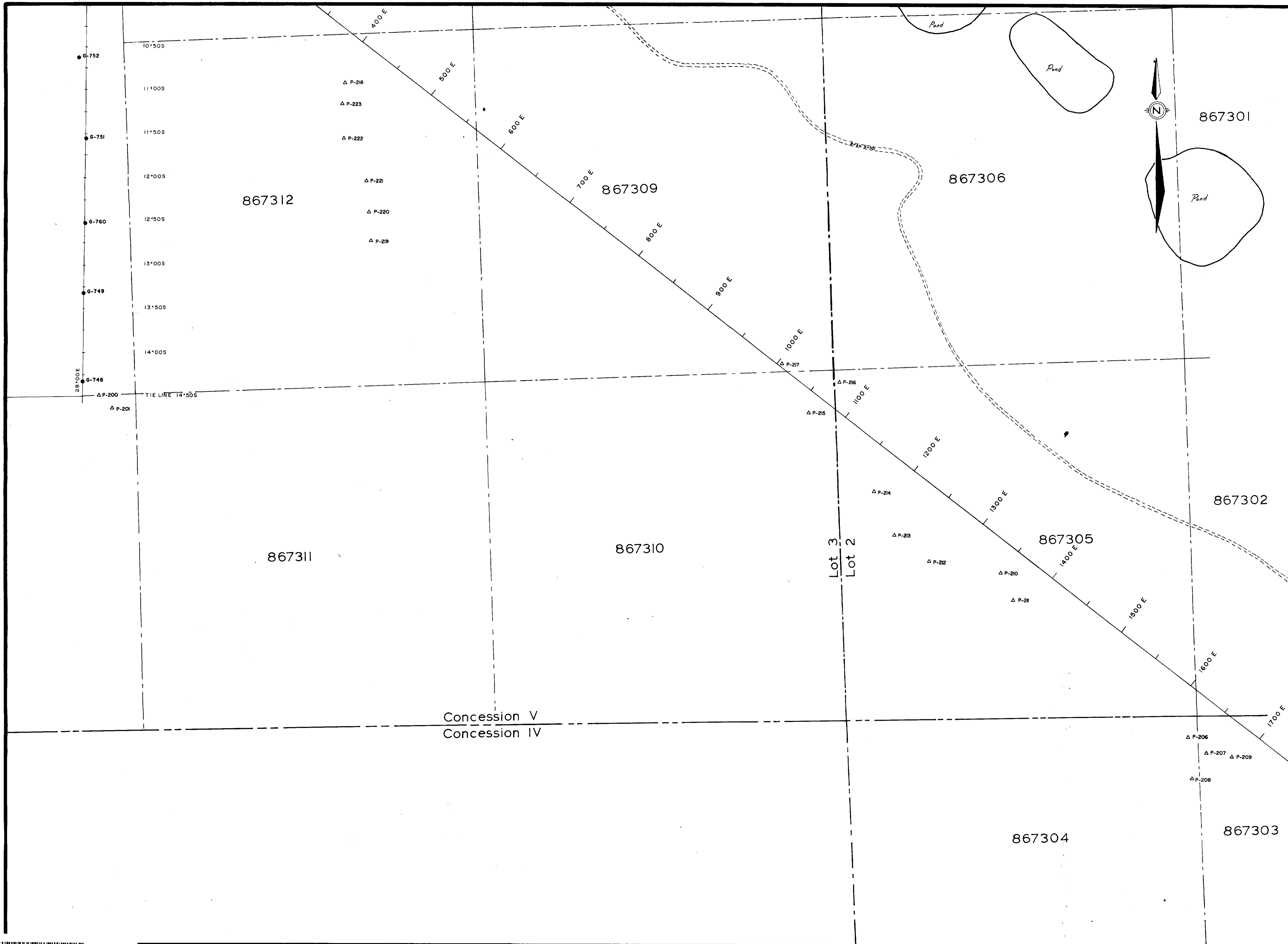
SCALE: 1:2000

2.12783

R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A 24 PLATE No. 1
 BY: R. Somerville P. Eng.
 DATE: September 15, 1989





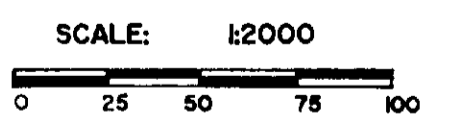
LEGEND



- GRAB SAMPLES Δ
- CLAIM BOUNDARY $---$
- TOE $|||$
- DIAMOND DRILL HOLE \circ
- FENCE $-x-x-$
- POWER LINE $-\bullet-\bullet-$ RED
- RAILWAY AND RIGHT OF WAY $---$ SMALL SCALE
--- LARGE SCALE

SHEET INDEX

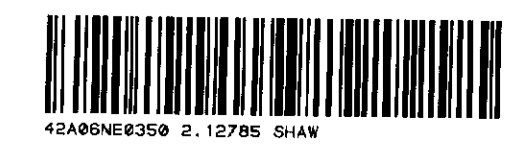
E	D	C
	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23 A24 A25	b3 b4 B b2 b1
G	H	I

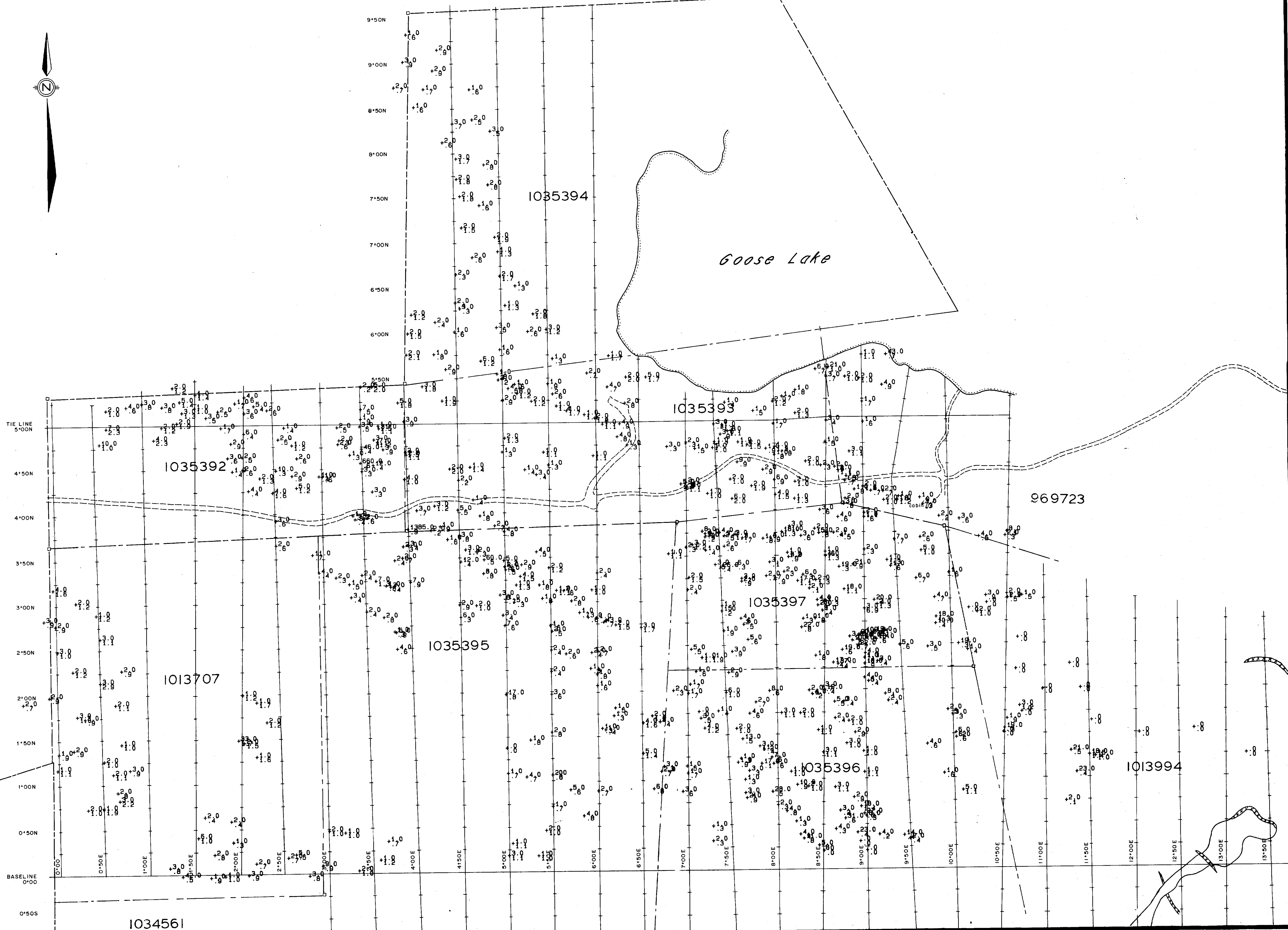
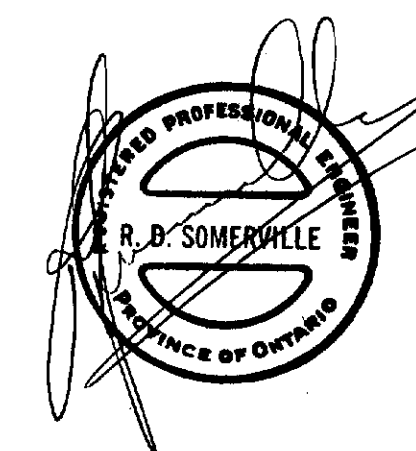


2.12785

R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A 25 PLATE No. 2
 BY: R. Somerville P. Eng.
 DATE: September 15, 1989.

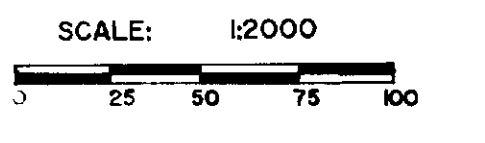




- GOLD ppb
- SILVER ppm
- CLAIM BOUNDARY
- TOE
- DIAMOND DRILL HOLE
- FENCE
- POWER LINE RED
- RAILWAY AND RIGHT OF WAY SMALL SCALE LARGE SCALE

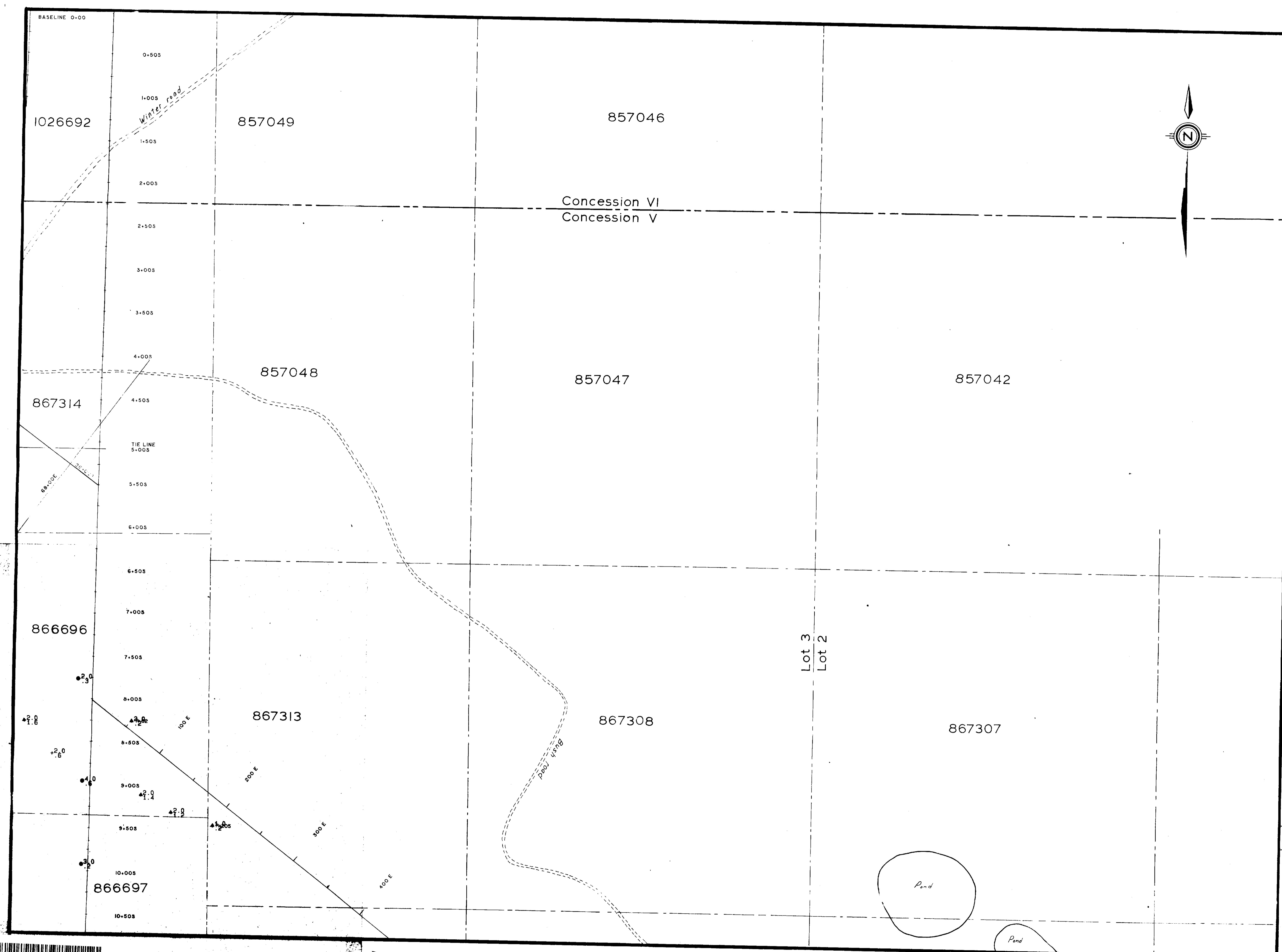
SHEET INDEX

E	D	C																			
	<table border="1"> <tr> <td>A1</td> <td>A2</td> <td>A3</td> <td>A4</td> <td>A5</td> <td rowspan="2">b3</td> <td rowspan="2">b4</td> </tr> <tr> <td>A6</td> <td>A7</td> <td>A8</td> <td>A9</td> <td>A10</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>b2</td> <td>bl</td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A6	A7	A8	A9	A10						b2	bl	
A1	A2	A3	A4	A5	b3	b4															
A6	A7	A8	A9	A10																	
					b2	bl															
F																					
G	H	I																			



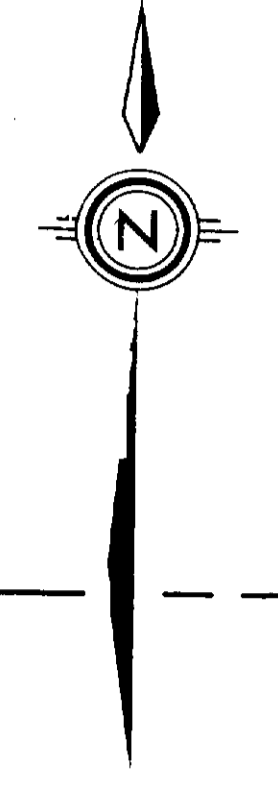
R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A13 PLATE No. 2
 DRAWN BY: R. Somerville P.Eng.
 DATE: September 15, 1989.

2.12785



LEGEND

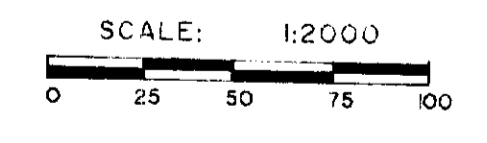
GOLD PPB
SILVER PPM



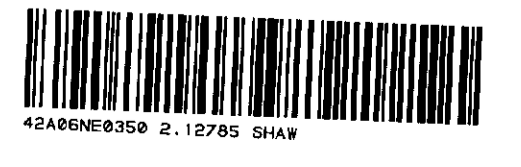
- PLUGGER DUST SAMPLE ●
- GRAB SAMPLES ▲
- CLAIM BOUNDARY - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE ○
- FENCE - x - x -
- POWER LINE ● ● ● ● ●
- RAILWAY AND RIGHT OF WAY - - - - -

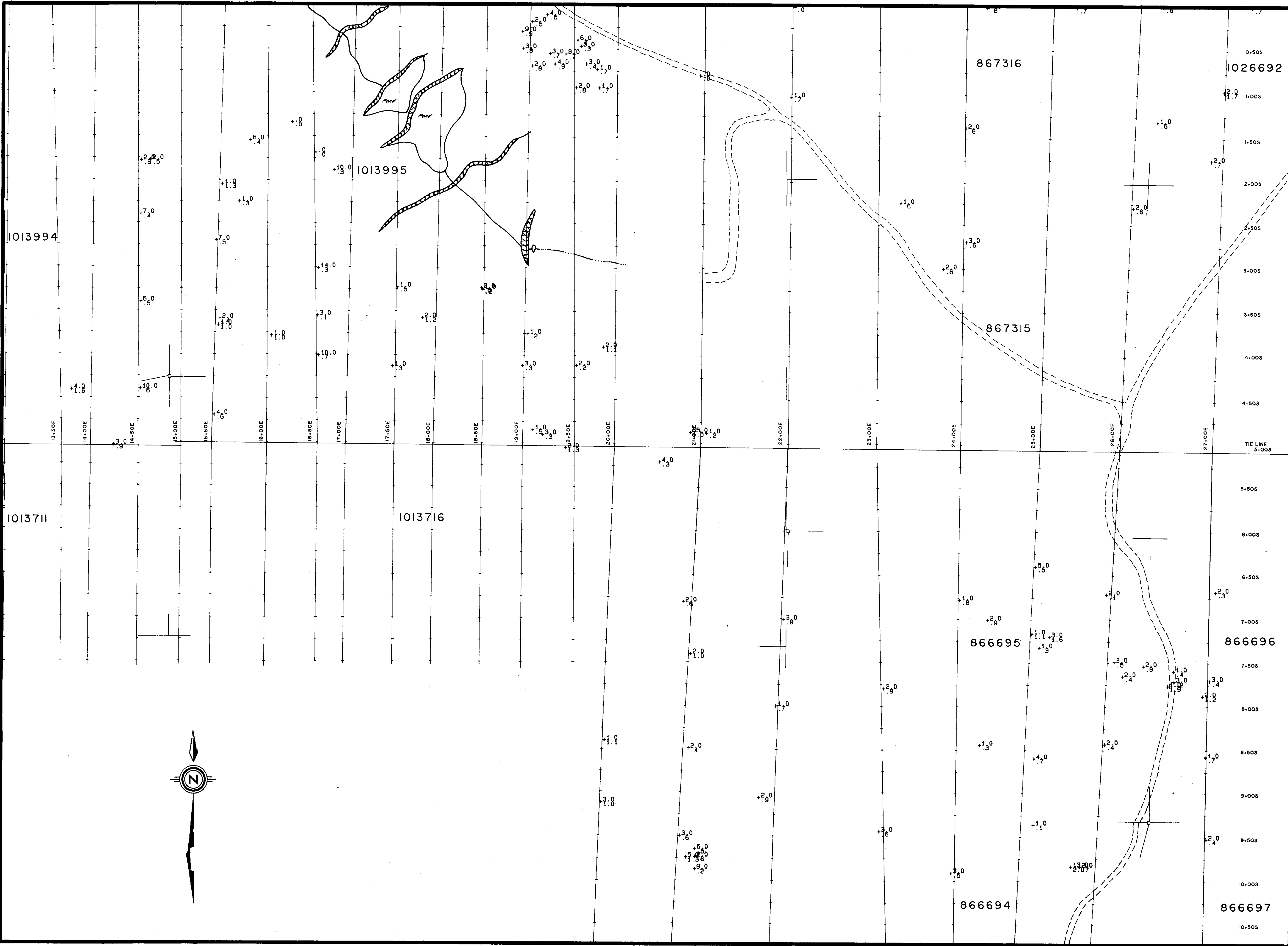
SHEET INDEX

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



R. SOMERVILLE ENGINEERING LTD.
ROCK GEOCHEM SURVEY
TOTAL ENERGOLD CORPORATION
Shaw #1 Property
Shaw Twp., Ontario
Porcupine Mining Division
MAP No. A-16 PLATE No. 2
By: R. Somerville P.Eng.
DATE: September 15, 1989.





LEGEND

GOLD ppb.
+ SILVER ppm.

- Tr- TRENCH OR PIT
 - CLAIM POST □
 - CLAIM BOUNDARY ————
 - TOE ————
 - DIAMOND DRILL HOLE ⊙
 - FENCE — x — x —
 - POWER LINE —●—●—●—
 - RAILWAY AND RIGHT OF WAY ————
- RED
SMALL SCALE
LARGE SCALE

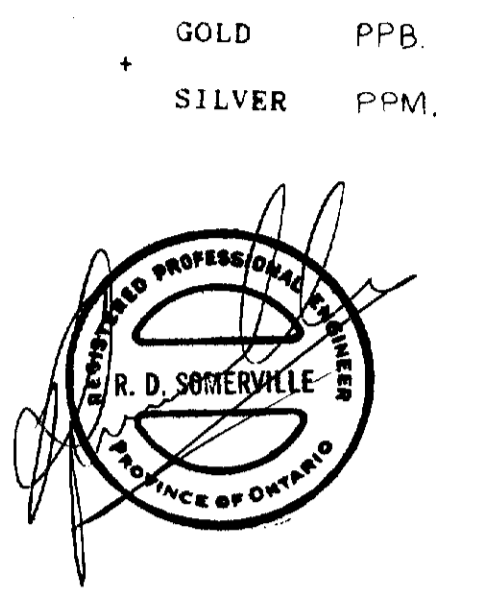
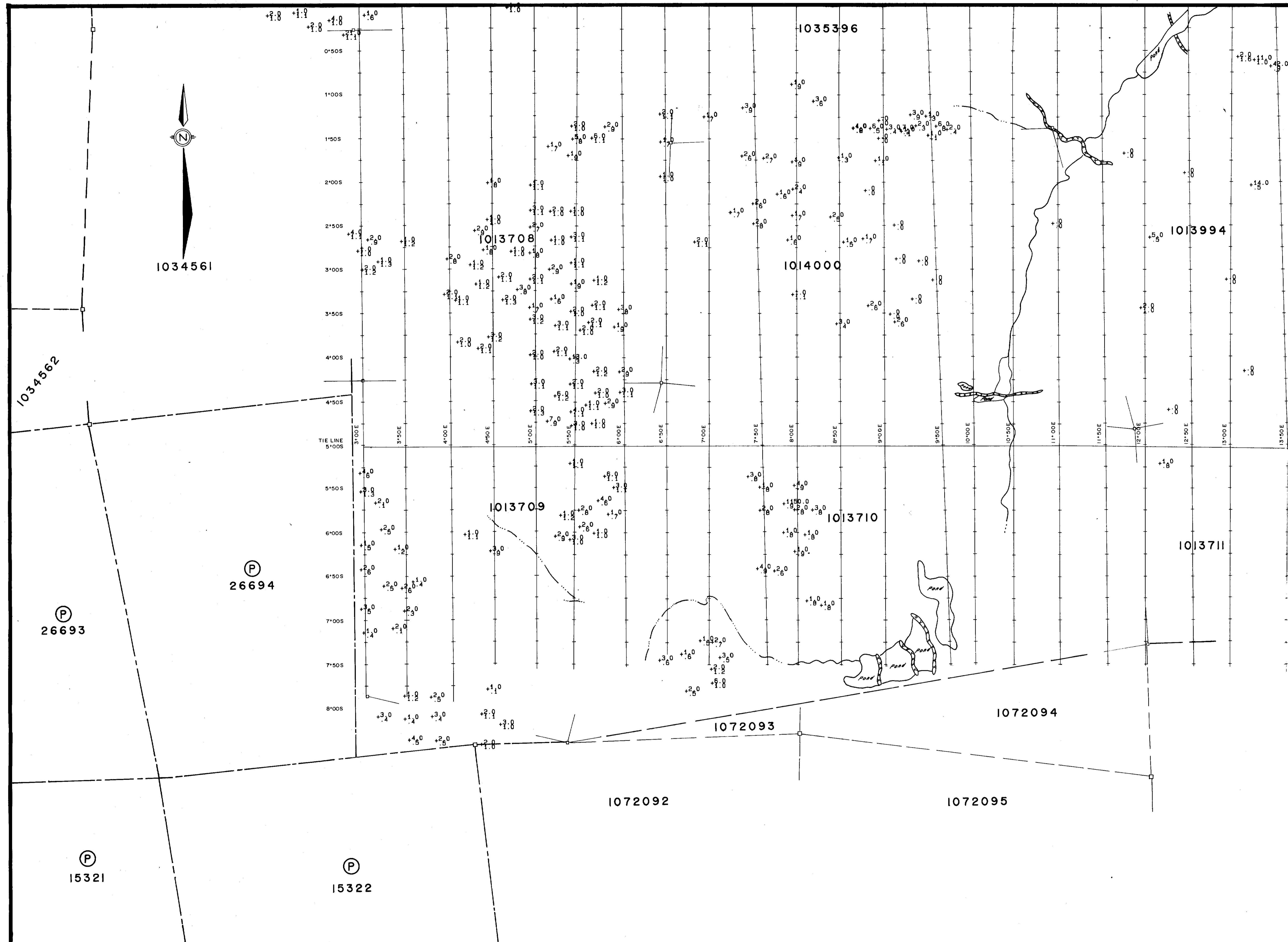
SHEET INDEX

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

SCALE: 1:2000
0 25 50 75 100

2.12785
R. SOMERVILLE ENGINEERING LTD.

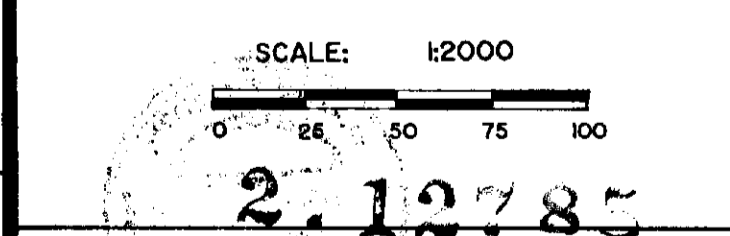
ROCK GEOCHEM SURVEY
TOTAL ENERGOLD CORPORATION
Shaw #1 Property
Shaw Twp., Ontario
Porcupine Mining Division
MAP No. A17 PLATE No. 2
By: R. Somerville P.Eng.
DATE: September 15, 1989.



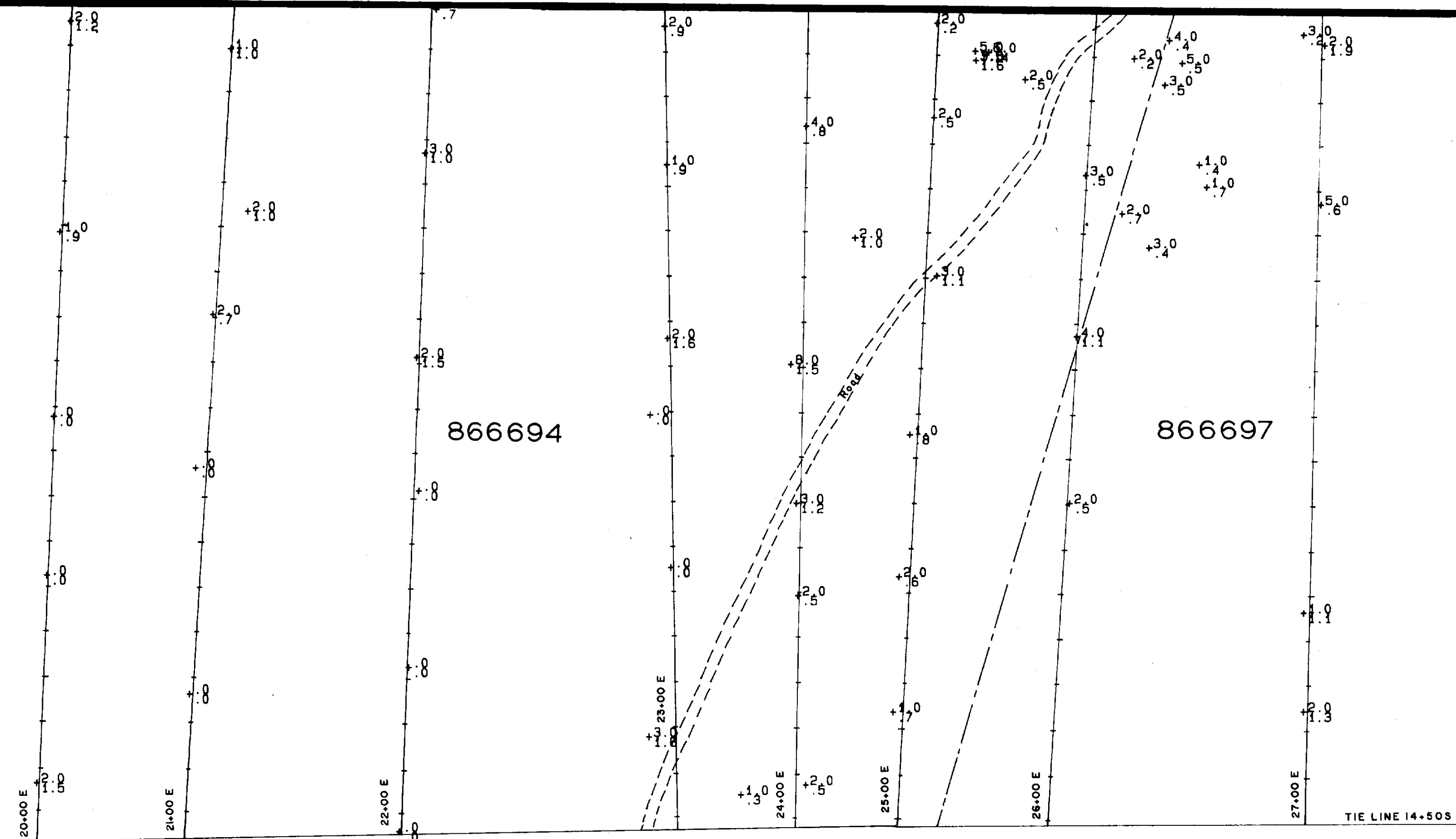
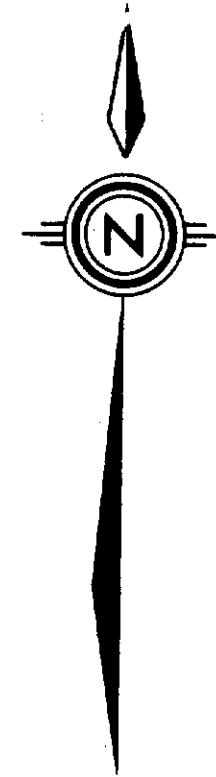
- CLAIM BOUNDARY - - - - -
- CUT OR FILL CREST - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE ○
- FENCE - x - x -
- POWER LINE - ● - ● -
- RAILWAY AND RIGHT OF WAY - - - - -

SHEET INDEX

E	D	C																										
	<table border="1"> <tr> <td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td> </tr> <tr> <td>A6</td><td>A7</td><td>A8</td><td>A9</td><td>A10</td> </tr> <tr> <td>A11</td><td>A12</td><td>A13</td><td>A14</td><td>A15</td> </tr> <tr> <td>A16</td><td>A17</td><td>A18</td><td>A19</td><td>A20</td> </tr> </table>	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	<table border="1"> <tr> <td>b3</td><td>b4</td> </tr> <tr> <td>B</td><td></td> </tr> <tr> <td>b2</td><td>b1</td> </tr> </table>	b3	b4	B		b2	b1
A1	A2	A3	A4	A5																								
A6	A7	A8	A9	A10																								
A11	A12	A13	A14	A15																								
A16	A17	A18	A19	A20																								
b3	b4																											
B																												
b2	b1																											
G	H	I																										



R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGO GOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A-18 PLATE No. 2
 DRAWN BY: R. Somerville P. Eng.
 DATE: September 15, 1989.



LEGEND

+ GOLD PPB
 + SILVER PPM.



- CUT OR FILL CREST - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE ○
- FENCE - x - x -
- POWER LINE ● ● ● ● ● RED
- RAILWAY AND RIGHT OF WAY SMALL SCALE - - - - -
- LARGE SCALE - - - - -

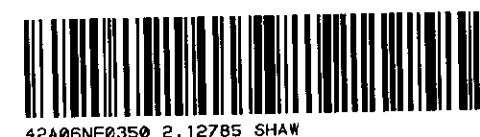
SHEET INDEX

E	D	C																															
	<table border="1"> <tr> <td>A1</td> <td>A2</td> <td>A3</td> <td>A4</td> <td>A5</td> <td rowspan="2">b3</td> <td rowspan="2">b4</td> </tr> <tr> <td>A10</td> <td>A9</td> <td>A8</td> <td>A7</td> <td>A6</td> </tr> <tr> <td>A11</td> <td>A12</td> <td>A13</td> <td>A14</td> <td>A15</td> <td colspan="2" rowspan="2">B</td> </tr> <tr> <td>A20</td> <td>A19</td> <td>A18</td> <td>A17</td> <td>A16</td> </tr> <tr> <td>A21</td> <td>A22</td> <td>A23</td> <td>A24</td> <td>A25</td> <td>b2</td> <td>bl</td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A10	A9	A8	A7	A6	A11	A12	A13	A14	A15	B		A20	A19	A18	A17	A16	A21	A22	A23	A24	A25	b2	bl	
A1	A2	A3	A4	A5	b3	b4																											
A10	A9	A8	A7	A6																													
A11	A12	A13	A14	A15	B																												
A20	A19	A18	A17	A16																													
A21	A22	A23	A24	A25	b2	bl																											
G	H	I																															

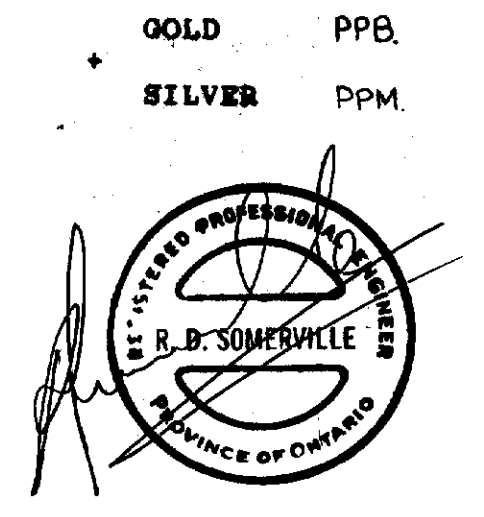
SCALE: 1:2000
 0 25 50 75 100

2.12785
 R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
 TOTAL ENERGO GOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Percupine Mining Division
 MAP No. A-24 PLATE No. 2
 DRAWN BY: R. Somerville P.Eng.
 DATE: September 15, 1989.



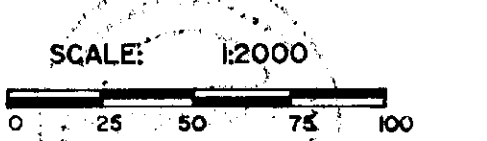
LEGEND



- GRAB SAMPLES Δ
- CLAIM BOUNDARY $\cdots\cdots\cdots$
- TOE $\text{---}\text{---}\text{---}\text{---}\text{---}$
- DIAMOND DRILL HOLE \circ
- FENCE $\times\text{---}\times\text{---}\times$
- POWER LINE $\text{---}\bullet\text{---}\bullet\text{---}\bullet$ RED
- RAILWAY AND RIGHT OF WAY $\text{---}\text{---}\text{---}\text{---}\text{---}$ SMALL SCALE
 $\text{---}\text{---}\text{---}\text{---}\text{---}$ LARGE SCALE

SHEET INDEX

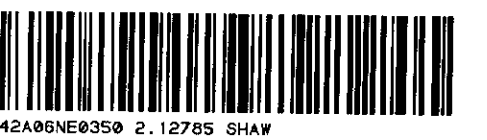
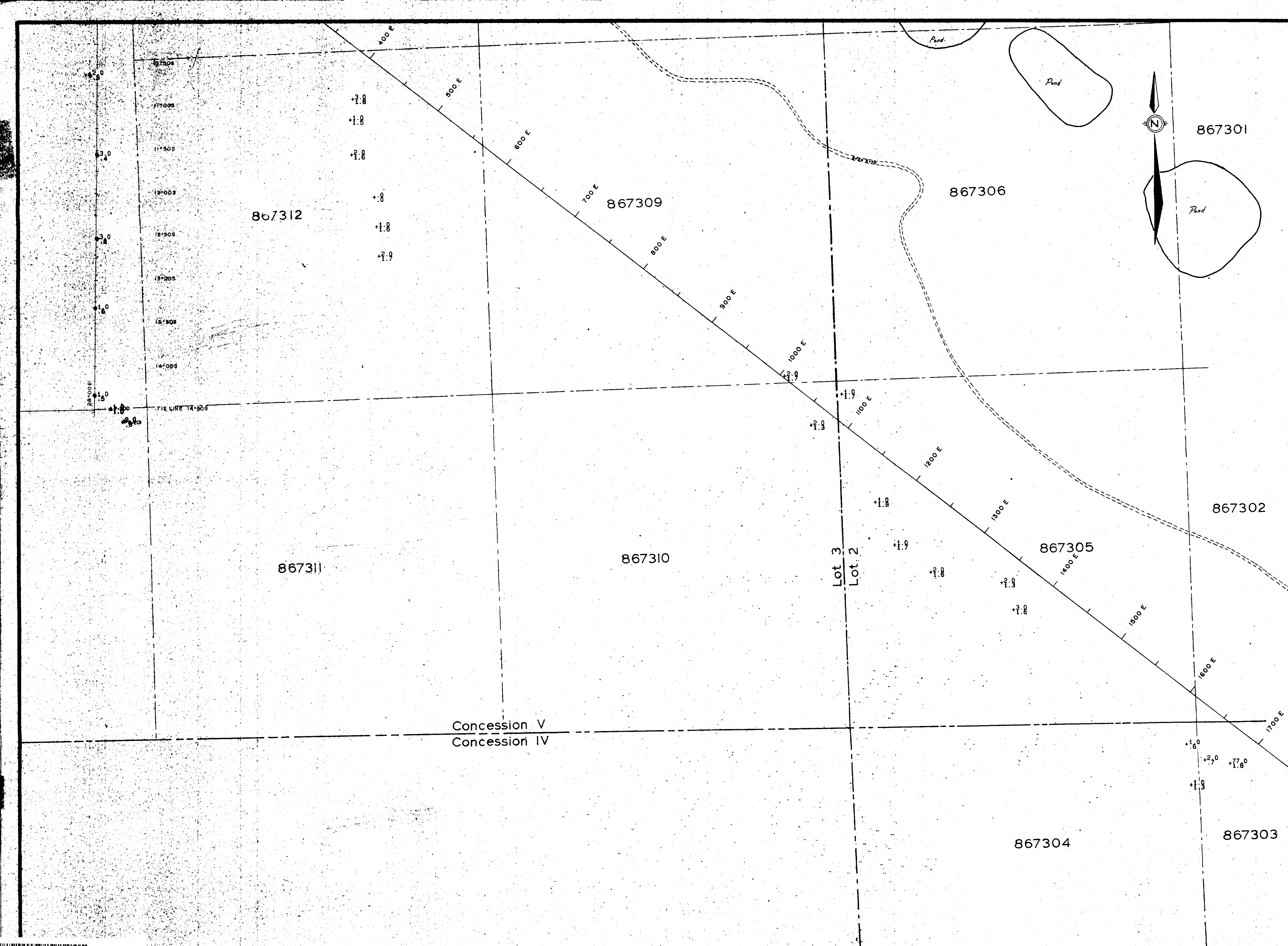
E	D	C																																			
	<table border="1"> <tr> <td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td> <td>b3</td><td>b4</td> </tr> <tr> <td>A10</td><td>A9</td><td>A8</td><td>A7</td><td>A6</td> <td></td><td></td> </tr> <tr> <td>A11</td><td>A12</td><td>A11</td><td>A14</td><td>A15</td> <td>B</td><td></td> </tr> <tr> <td>A20</td><td>A19</td><td>A18</td><td>A17</td><td>A16</td> <td>b2</td><td>bl</td> </tr> <tr> <td>A21</td><td>A22</td><td>A23</td><td>A24</td><td>A25</td> <td></td><td></td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A10	A9	A8	A7	A6			A11	A12	A11	A14	A15	B		A20	A19	A18	A17	A16	b2	bl	A21	A22	A23	A24	A25			
A1	A2	A3	A4	A5	b3	b4																															
A10	A9	A8	A7	A6																																	
A11	A12	A11	A14	A15	B																																
A20	A19	A18	A17	A16	b2	bl																															
A21	A22	A23	A24	A25																																	
F																																					
G	H	I																																			

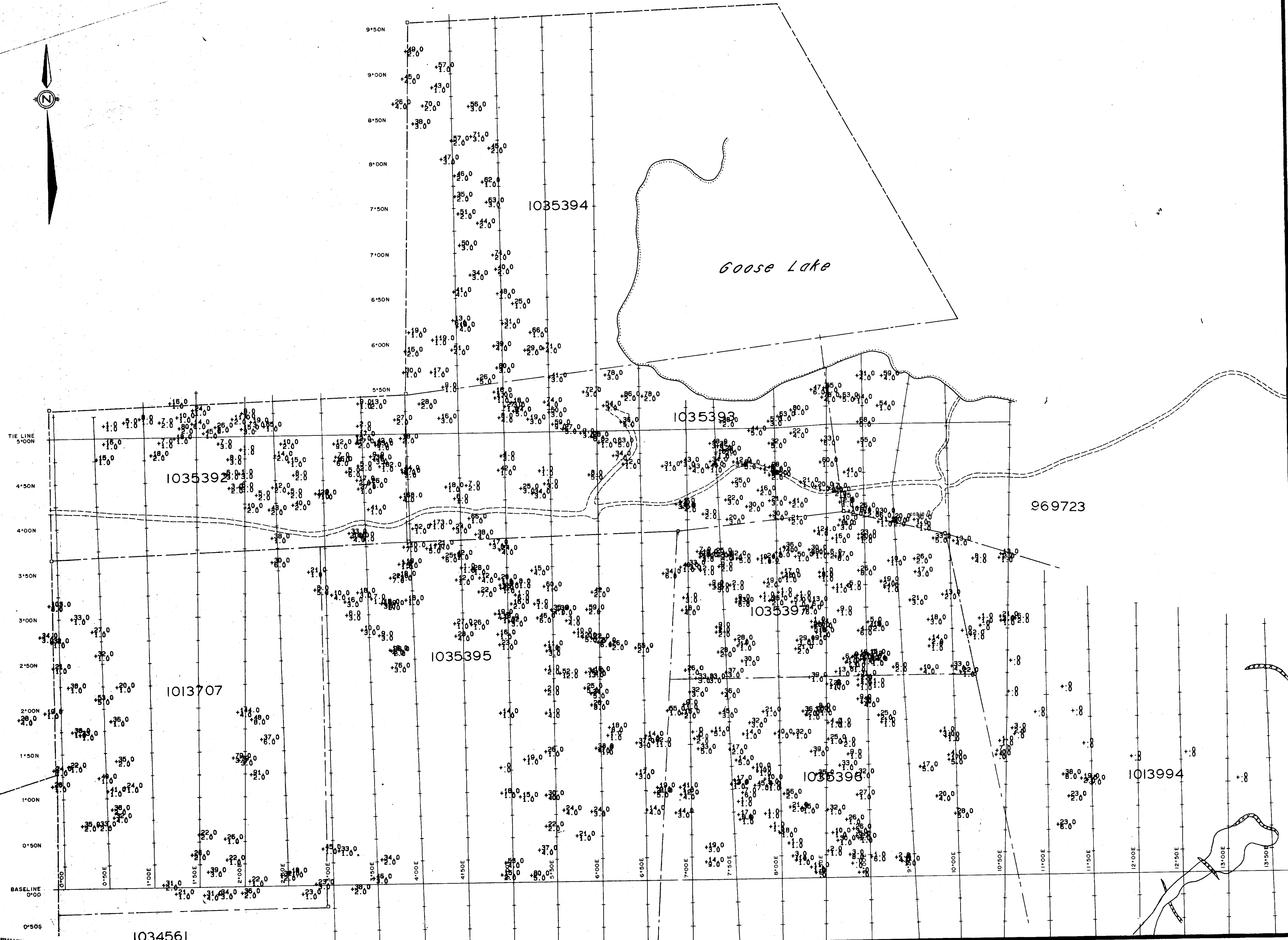
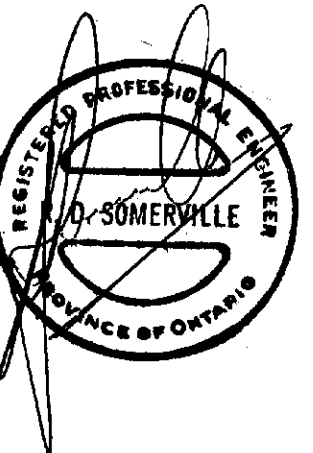


2.12785

R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A 25 PLATE No. 2
 BY: R. Somerville P.Eng.
 DATE: September 15, 1989.





+ ARSENIC ppm.
 + ANTIMONY ppm.

CLAIM BOUNDARY - - - - -
 TOE - - - - -
 DIAMOND DRILL HOLE ○ - - - - -
 FENCE - x - x -
 POWER LINE - ● - ● - RED
 RAILWAY AND RIGHT OF WAY - - - - - SMALL SCALE
 - - - - - LARGE SCALE

SHEET INDEX

E	D	C																																	
	<table border="1"> <tr> <td>A1</td> <td>A2</td> <td>A3</td> <td>A4</td> <td>A5</td> <td rowspan="2">b3</td> <td rowspan="2">b4</td> </tr> <tr> <td>A10</td> <td>A9</td> <td>A8</td> <td>A7</td> <td>A6</td> </tr> <tr> <td>A11</td> <td>A12</td> <td>A13</td> <td>A14</td> <td>A15</td> <td colspan="2" rowspan="2">B</td> </tr> <tr> <td>A20A19</td> <td>A18</td> <td>A17</td> <td>A16</td> <td>A15</td> <td>b2</td> <td>b1</td> </tr> <tr> <td>A21</td> <td>A22</td> <td>A23</td> <td>A24</td> <td>A25</td> <td colspan="2"></td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A10	A9	A8	A7	A6	A11	A12	A13	A14	A15	B		A20A19	A18	A17	A16	A15	b2	b1	A21	A22	A23	A24	A25			
A1	A2	A3	A4	A5	b3	b4																													
A10	A9	A8	A7	A6																															
A11	A12	A13	A14	A15	B																														
A20A19	A18	A17	A16	A15			b2	b1																											
A21	A22	A23	A24	A25																															
G	H	I																																	

SCALE: 1:2000

0 25 50 75 100

2.12785

R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY

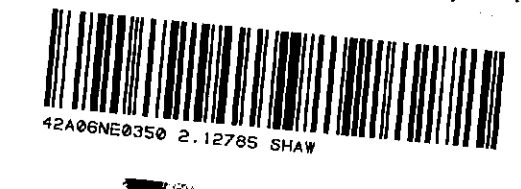
TOTAL ENERGOLD CORPORATION

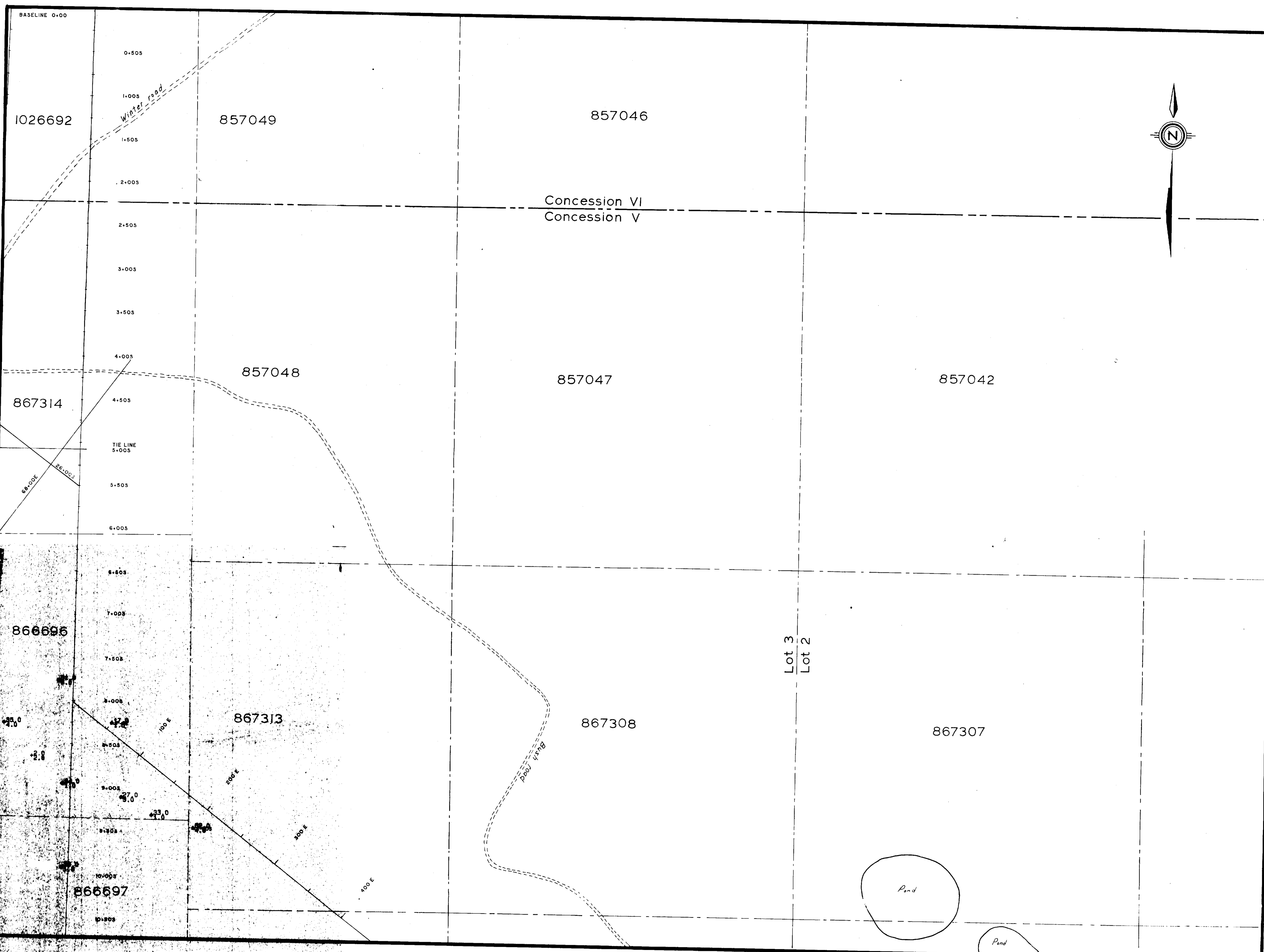
Shaw #1 Property
Shaw Twp., Ontario
Porcupine Mining Division

MAP No. A13 PLATE No. 3

DRAWN BY: R. Somerville P. Eng.

DATE: September 15, 1989.





LEGEND

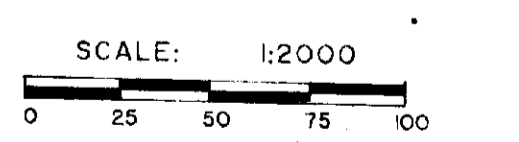
ARSENIC PPM
ANTIMONY PPM



- PLUGGER DUST SAMPLE ●
- GRAB SAMPLES ▲
- CLAIM BOUNDARY - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE ○
- FENCE - x - x -
- POWER LINE ● - ● - RED
- RAILWAY AND RIGHT OF WAY SMALL SCALE + + + + +
LARGE SCALE = = = = =

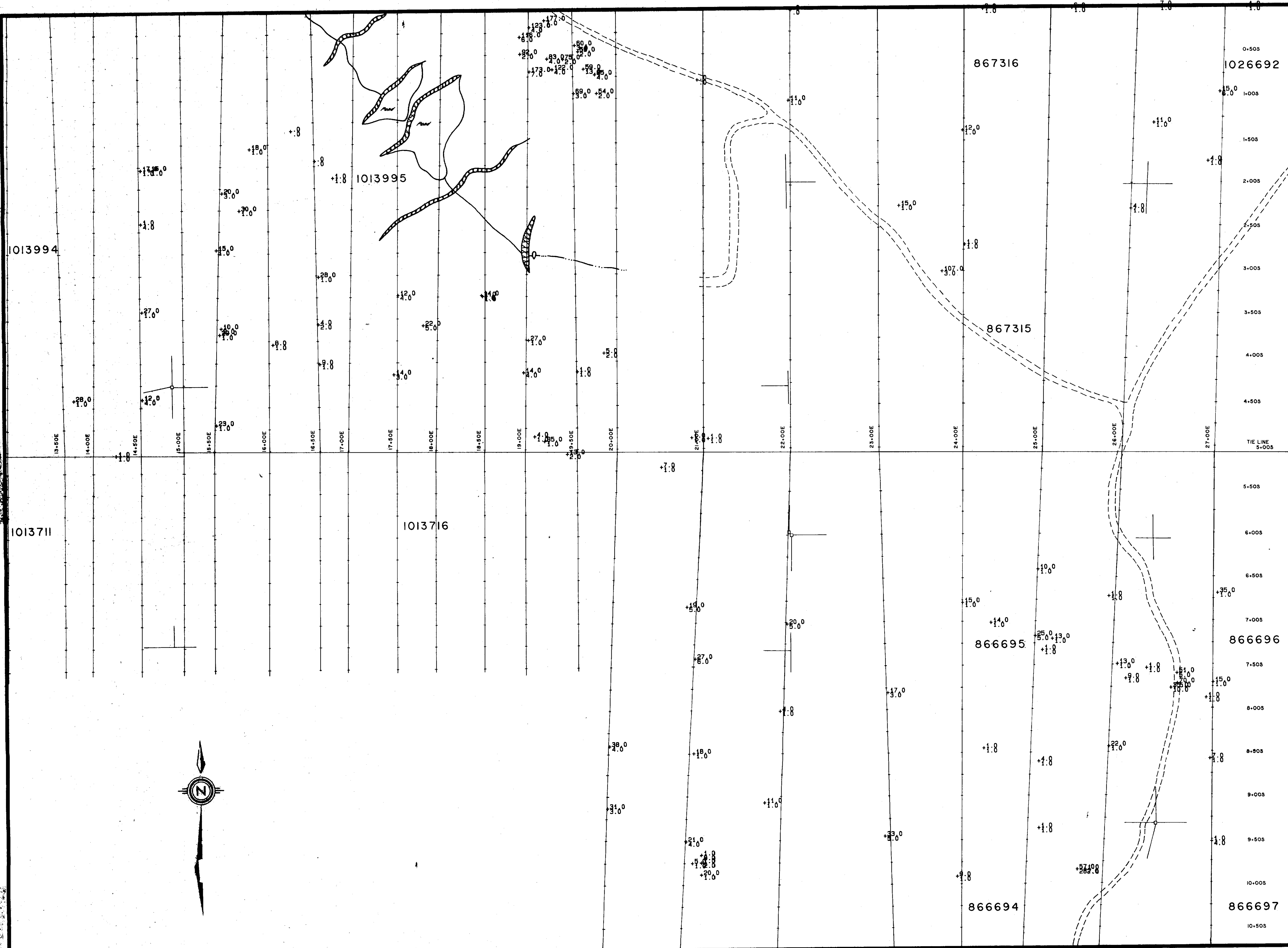
SHEET INDEX

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



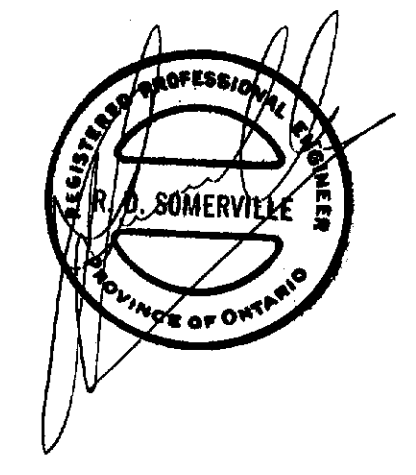
R. SOMERVILLE ENGINEERING LTD.
ROCK GEOCHEM SURVEY
TOTAL ENERGOLD CORPORATION
Shaw #1 Property
Shaw Twp., Ontario
Porcupine Mining Division
MAP No. A-16 PLATE No. 3
By: R. Somerville P. Eng.
DATE: September 15, 1989.

2.12785



LEGEND

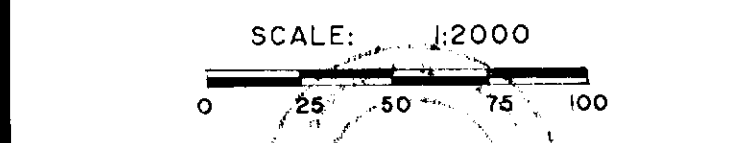
+ ARSENIC ppm.
 + ANTIMONY ppm.



- Tr- TRENCH OR PIT
- CLAIM POST □
- CLAIM BOUNDARY - - - - -
- TOE = = = = =
- DIAMOND DRILL HOLE ⊙
- FENCE x x x x x
- POWER LINE ● ● ● ● ●
- RAILWAY AND RIGHT OF WAY ————

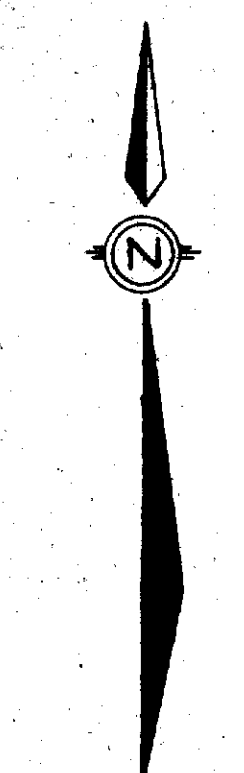
SHEET INDEX

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



R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A17 PLATE No. 3
 By: R. Somerville P.Eng.
 DATE: September 15, 1989.





1034561

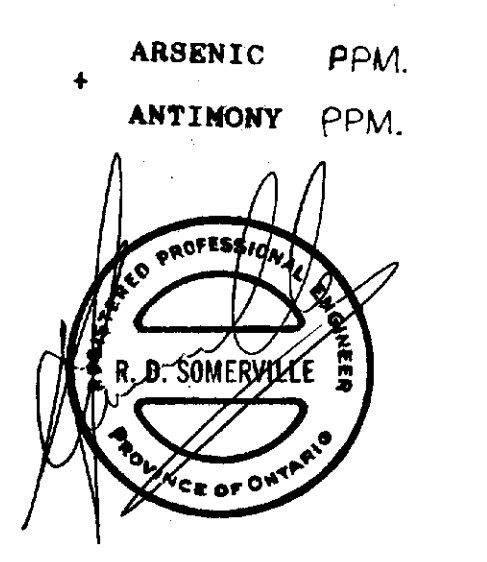
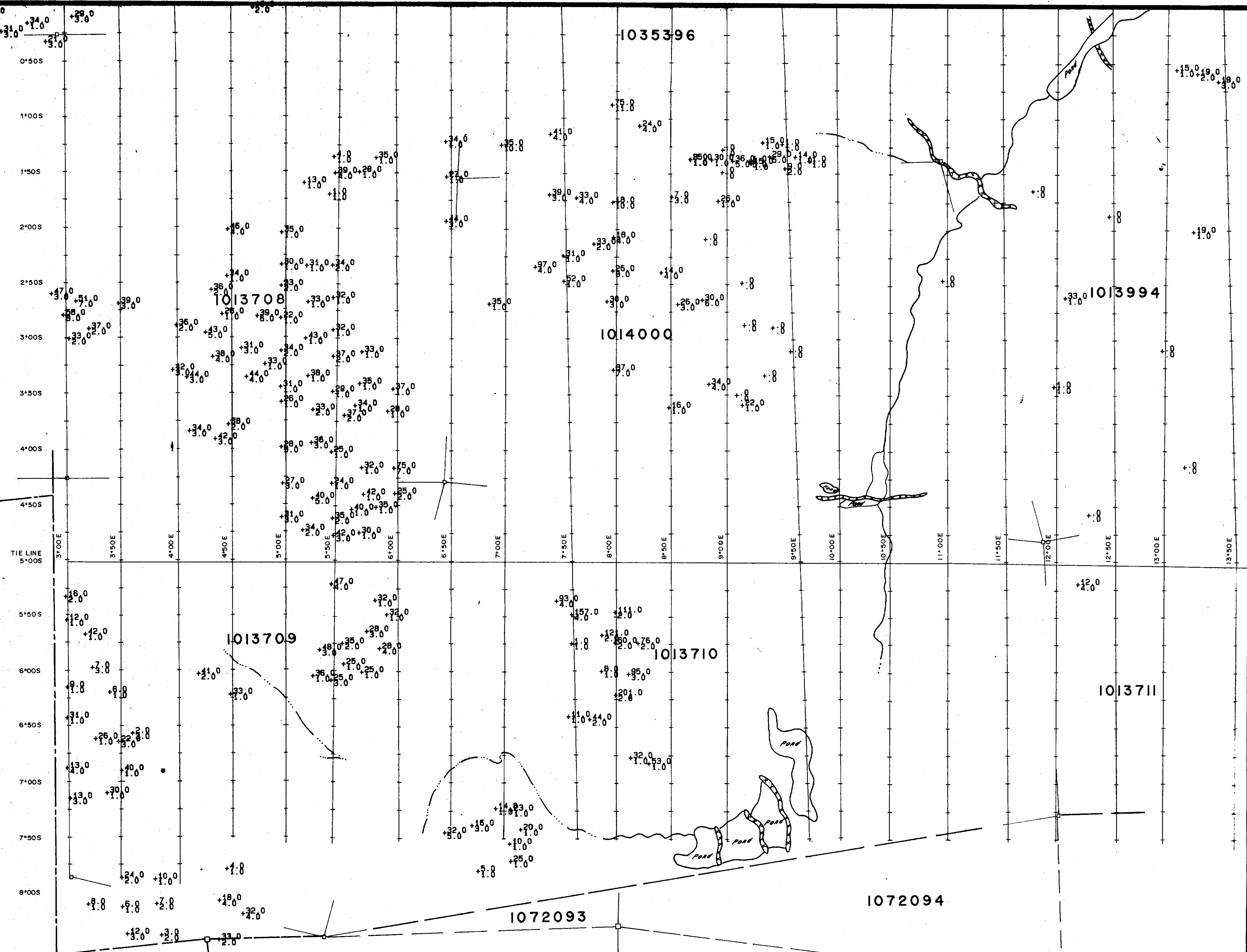
1034562

(P)
26693

(P)
26694

(P)
15321

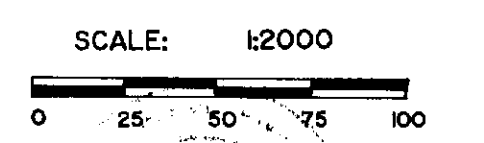
(P)
15322



- CLAIM BOUNDARY - - - - -
 - CUT OR FILL CREST - - - - -
 - TOE - - - - -
 - DIAMOND DRILL HOLE - - - - -
 - FENCE - - - - -
 - POWER LINE - - - - -
 - RAILWAY AND RIGHT OF WAY - - - - -
- RED
SMALL SCALE
LARGE SCALE

SHEET INDEX

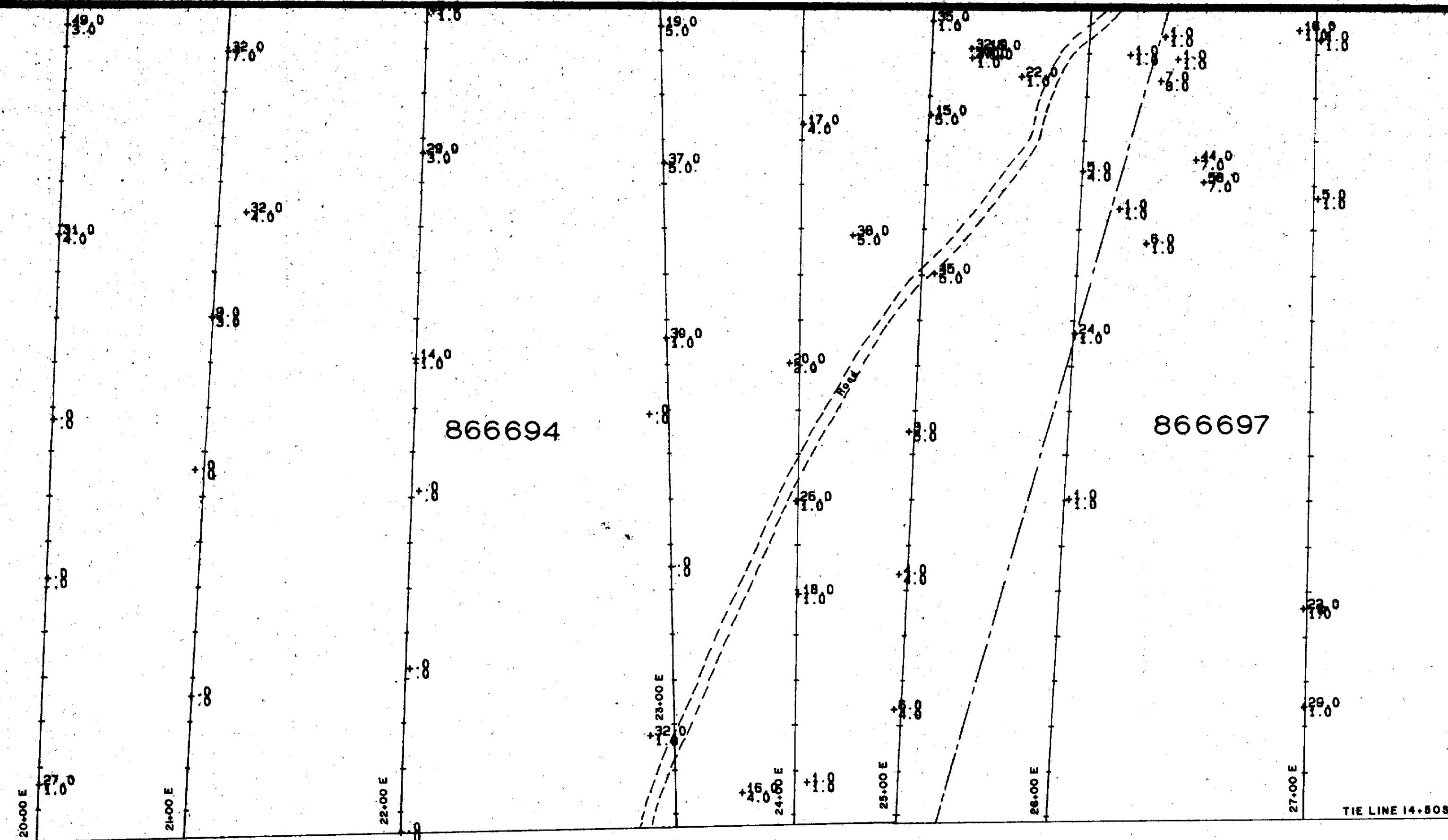
E	D	C
	A1 A2 A3 A4 A5 A10 A9 A8 A7 A6 A11 A12 A A14 A15 A20 A18 A16 A17 A16 A21 A24 A23 A24 A22	b3 b4 B b2 b1
G	H	I



R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A-18 PLATE No. 3
 DRAWN BY: R. Somerville P. Eng.
 DATE: September 15, 1989.

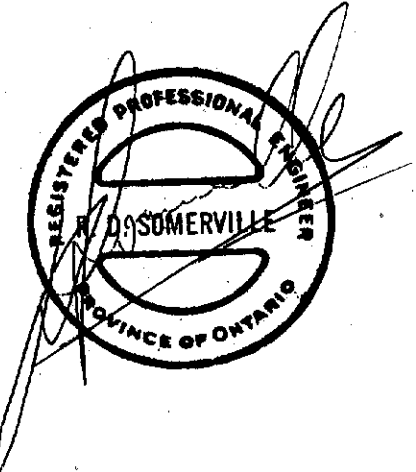
2.12785





LEGEND

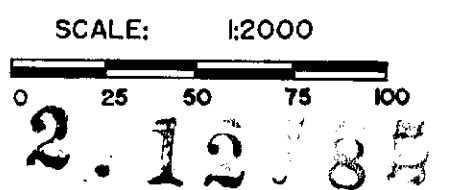
ARSENIC PPM.
ANTIMONY PPM.



- CUT OR FILL CREST - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE ○
- FENCE - x - x -
- POWER LINE ● ● ● ● ● RED
- RAILWAY AND RIGHT OF WAY SMALL SCALE LARGE SCALE

SHEET INDEX

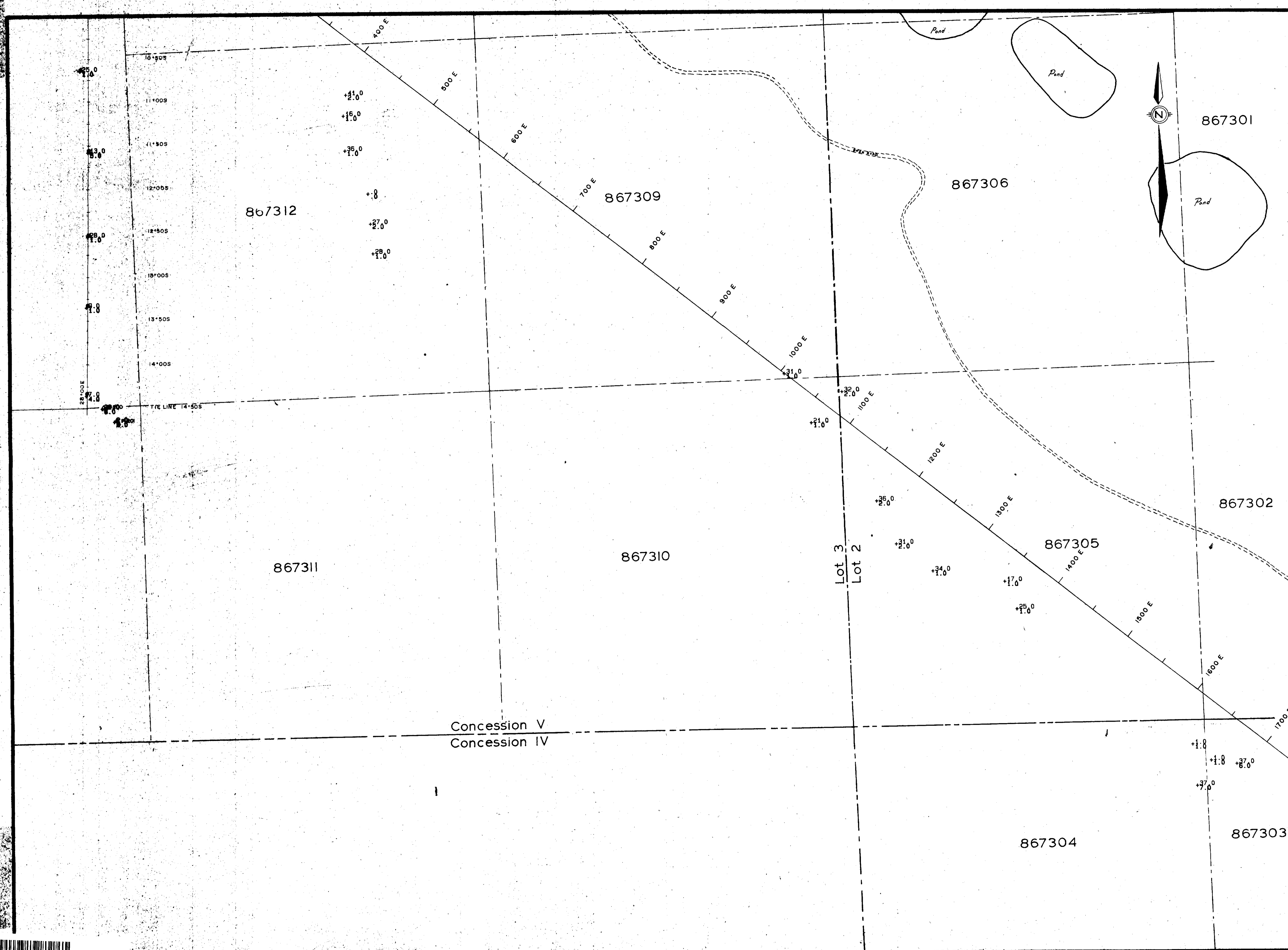
E	D	C																																										
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: left;"> <tr> <td style="width: 12.5%;">A1</td> <td style="width: 12.5%;">A2</td> <td style="width: 12.5%;">A3</td> <td style="width: 12.5%;">A4</td> <td style="width: 12.5%;">A5</td> <td rowspan="2" style="width: 12.5%;"></td> <td rowspan="2" style="width: 12.5%;"></td> </tr> <tr> <td>A10</td> <td>A9</td> <td>A8</td> <td>A7</td> <td>A6</td> <td style="width: 12.5%;">b3</td> <td style="width: 12.5%;">b4</td> </tr> <tr> <td colspan="5"></td> <td colspan="2" style="text-align: center;">B</td> </tr> <tr> <td style="width: 12.5%;">A11</td> <td style="width: 12.5%;">A12</td> <td style="width: 12.5%;">A13</td> <td style="width: 12.5%;">A14</td> <td style="width: 12.5%;">A15</td> <td rowspan="2" style="width: 12.5%;"></td> <td rowspan="2" style="width: 12.5%;"></td> </tr> <tr> <td>A20</td> <td>A19</td> <td>A18</td> <td>A17</td> <td>A16</td> <td style="width: 12.5%;">b2</td> <td style="width: 12.5%;">b1</td> </tr> <tr> <td>A21</td> <td>A22</td> <td>A23</td> <td>A24</td> <td>A25</td> <td colspan="2"></td> </tr> </table>	A1	A2	A3	A4	A5			A10	A9	A8	A7	A6	b3	b4						B		A11	A12	A13	A14	A15			A20	A19	A18	A17	A16	b2	b1	A21	A22	A23	A24	A25			
A1	A2	A3	A4	A5																																								
A10	A9	A8	A7	A6			b3	b4																																				
					B																																							
A11	A12	A13	A14	A15																																								
A20	A19	A18	A17	A16			b2	b1																																				
A21	A22	A23	A24	A25																																								
G	H	I																																										



R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
TOTAL ENERGOLD CORPORATION
Shaw #1 Property
Shaw Twp., Ontario
Percupine Mining Division
MAP No. A-24 PLATE No. 3
DRAWN BY: R. Somerville P. Eng.
DATE: September 15, 1989.





LEGEND

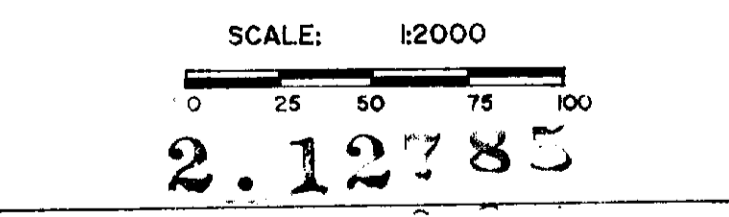
ARISEFC PPM
 ANTIMONY PPM



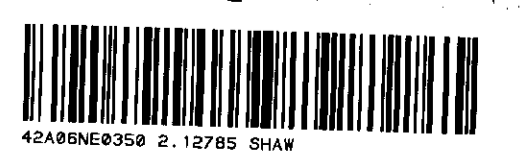
- GRAB SAMPLES Δ
 - CLAIM BOUNDARY - - - - -
 - TOE - - - - -
 - DIAMOND DRILL HOLE \circ
 - FENCE - x - x -
 - POWER LINE - ● - ● -
 - RAILWAY AND RIGHT OF WAY - - - - -
- RED
 SMALL SCALE
 LARGE SCALE

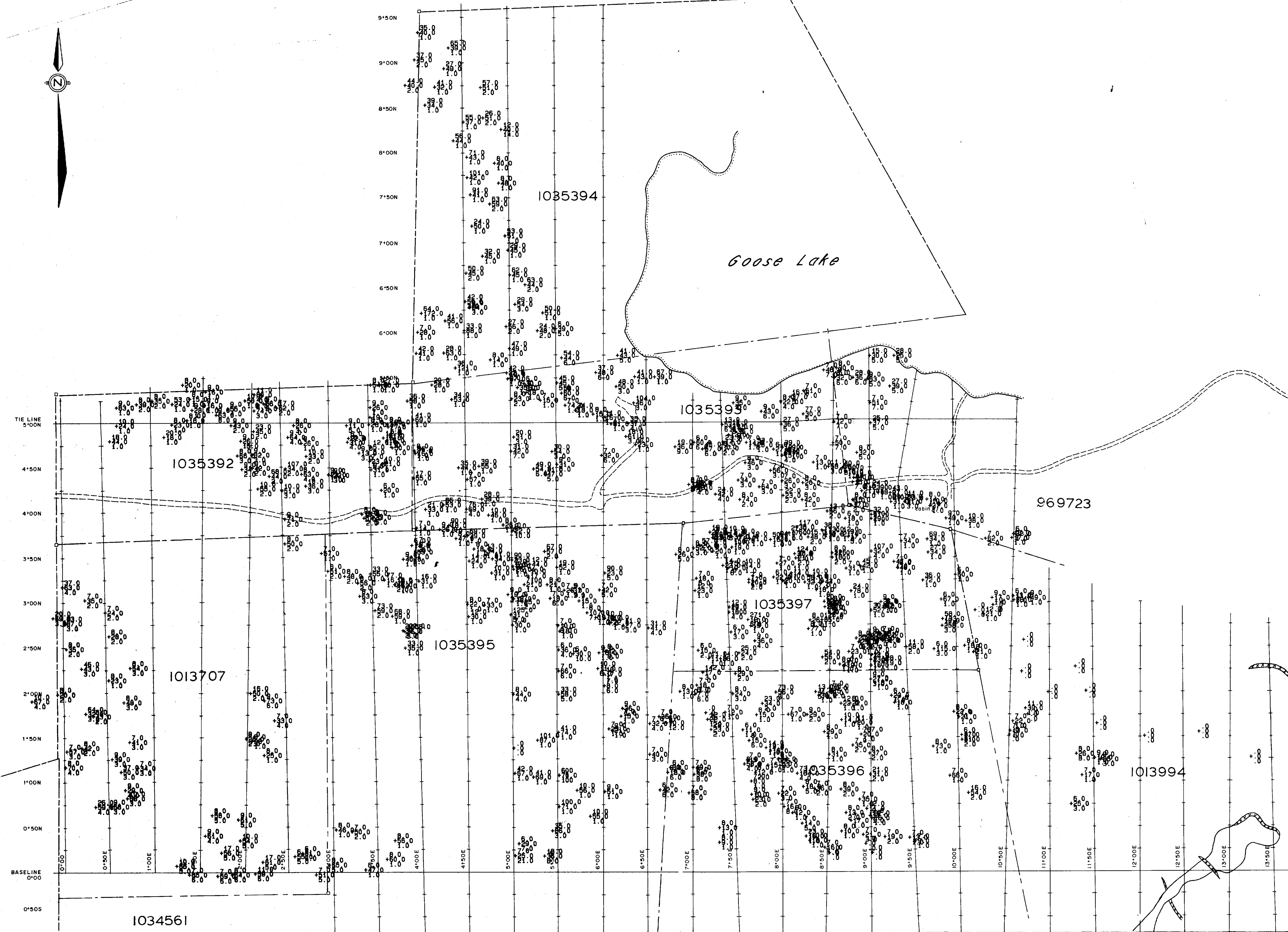
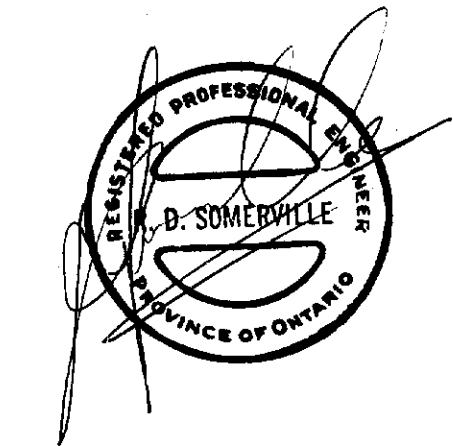
SHEET INDEX

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



R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A 25 PLATE No. 3
 BY: R. Somerville P.Eng.
 DATE: September 15, 1989.





COPPER ppm
 ZINC ppm
 BORON ppm

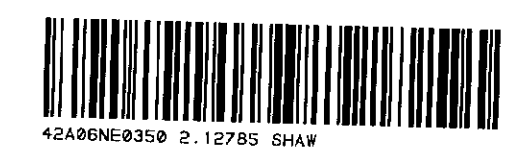
CLAIM BOUNDARY - - - - -
 TOE - - - - -
 DIAMOND DRILL HOLE ○
 FENCE x x x
 POWER LINE ● ● ● RED
 RAILWAY AND RIGHT OF WAY SMALL SCALE +++
 LARGE SCALE =====

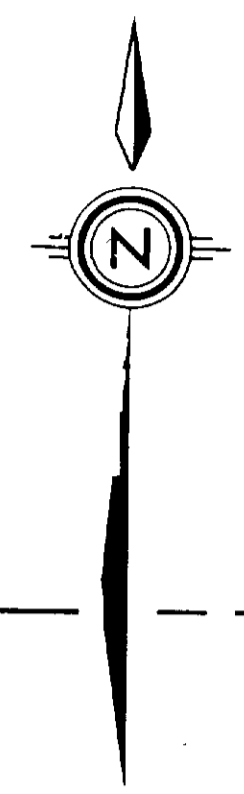
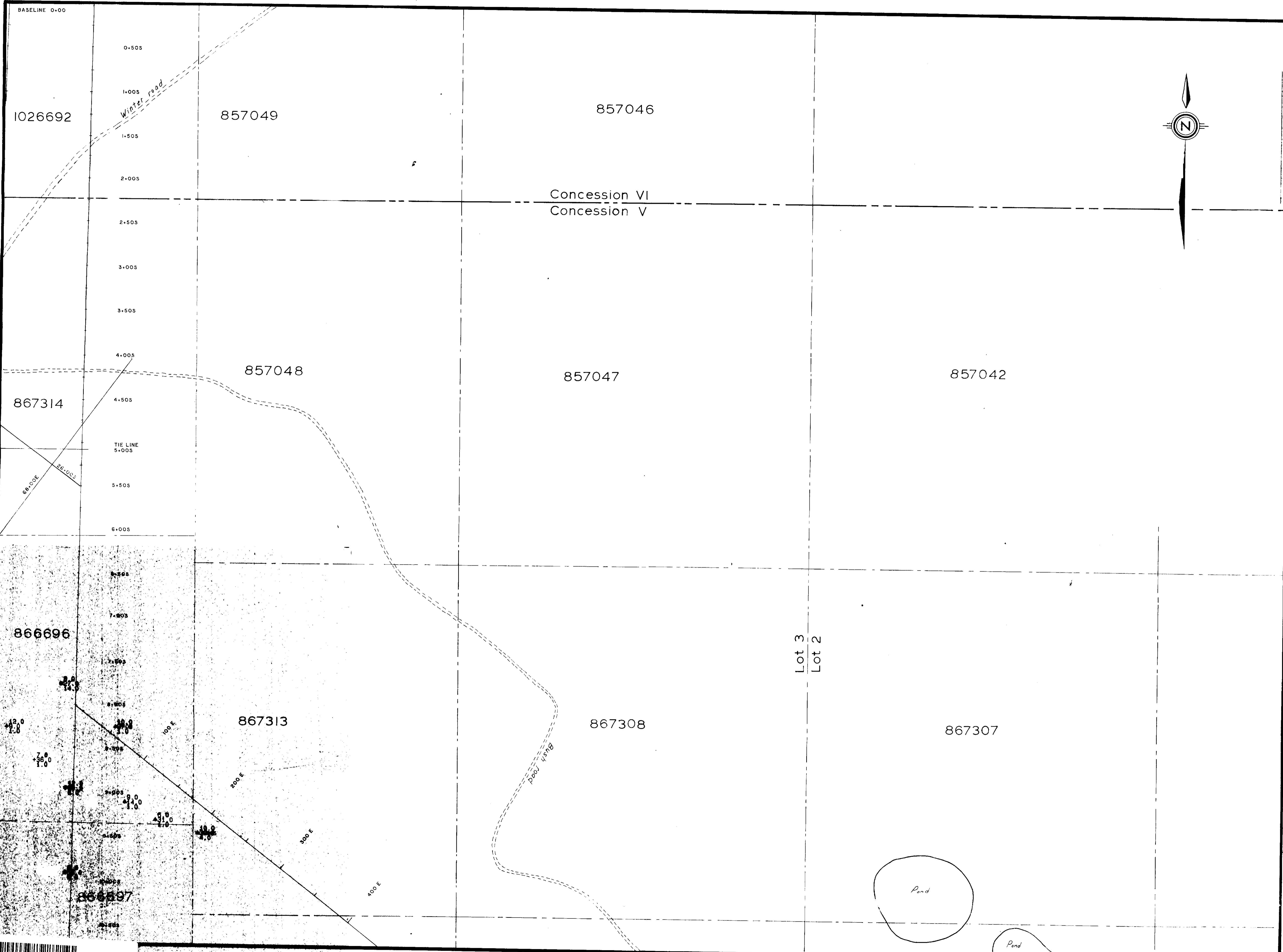
SHEET INDEX

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

SCALE: 1:2000
 0 25 50 75 100
 2.12785

R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A13 PLATE No. 4
 DRAWN BY: R. Somerville P. Eng.
 DATE: September 15, 1989





LEGEND

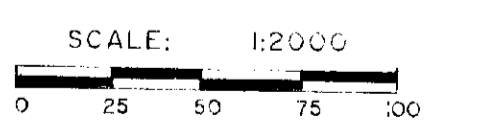
COPPER PPM
 ZINC PPM
 BORON PPM



- PLUGGER DUST SAMPLE ●
- GRAB SAMPLES ▲
- CLAIM BOUNDARY - - - - -
- TOE + + + + +
- DIAMOND DRILL HOLE ○
- FENCE - - - x x - - -
- POWER LINE ● ● ● ● ●
- RAILWAY AND RIGHT OF WAY SMALL SCALE - - - - -
- LARGE SCALE - - - - -

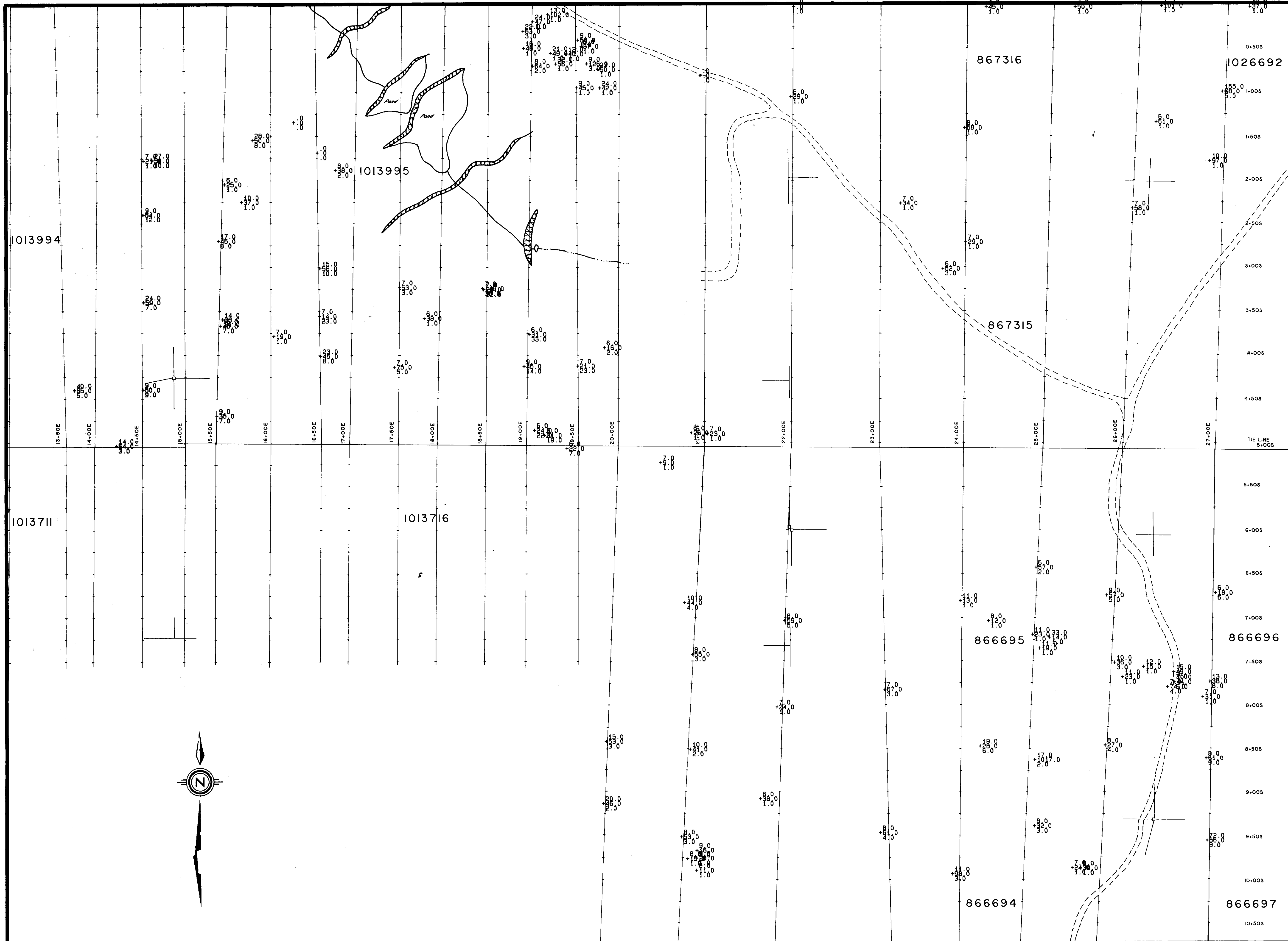
SHEET INDEX

E	D	C
	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	b3 b4
F	A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23 A24 A25	B B1 B2 B3
G	H	I



R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A-16 PLATE No. 4
 By: R. Somerville P. Eng.
 DATE: September 15, 1989.



LEGEND

+ COPPER ppm
 + ZINC ppm
 + BORON ppm



- Tr- TRENCH OR PIT
- CLAIM POST □
- CLAIM BOUNDARY ————
- TOE ————
- DIAMOND DRILL HOLE ○
- FENCE — x — x —
- POWER LINE —●—●—●—
- RAILWAY AND RIGHT OF WAY ————

SHEET INDEX

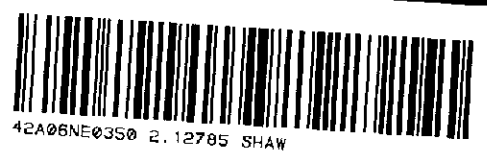
E	D	C
A1 A2 A3 A4 A5	A10 A9 A8 A7 A6	b3 b4
F	A11 A12 A14 A15	B
	A20 A19 A18 A16	b2 b1
	A21 A22 A23 A24 A25	
G	H	I

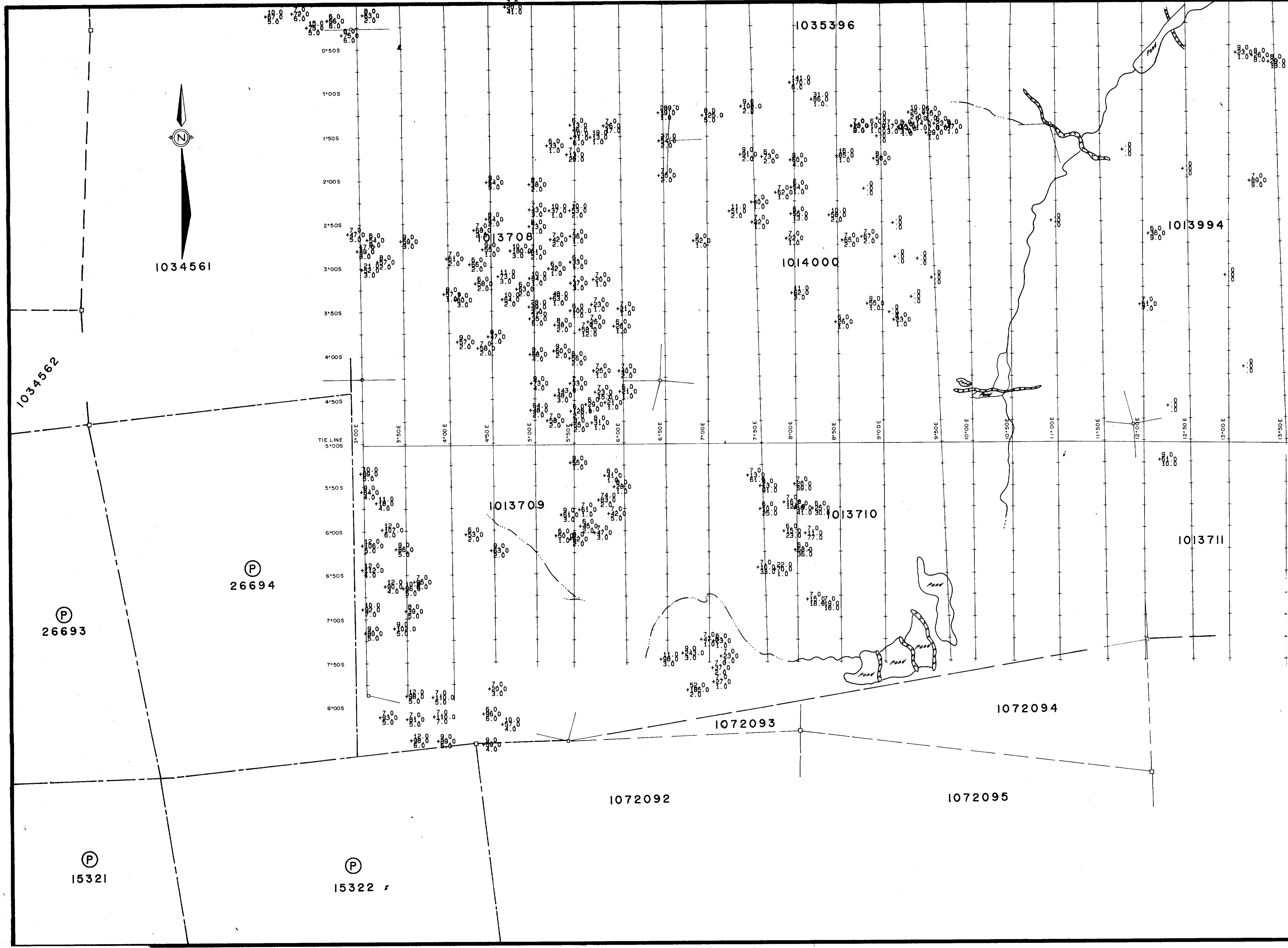
SCALE: 1:2000

212785

R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A17 PLATE No. 4
 By: R. Somerville P.Eng.
 DATE: September 15, 1989.





COPPER PPM.
 ZINC PPM.
 BORON PPM.

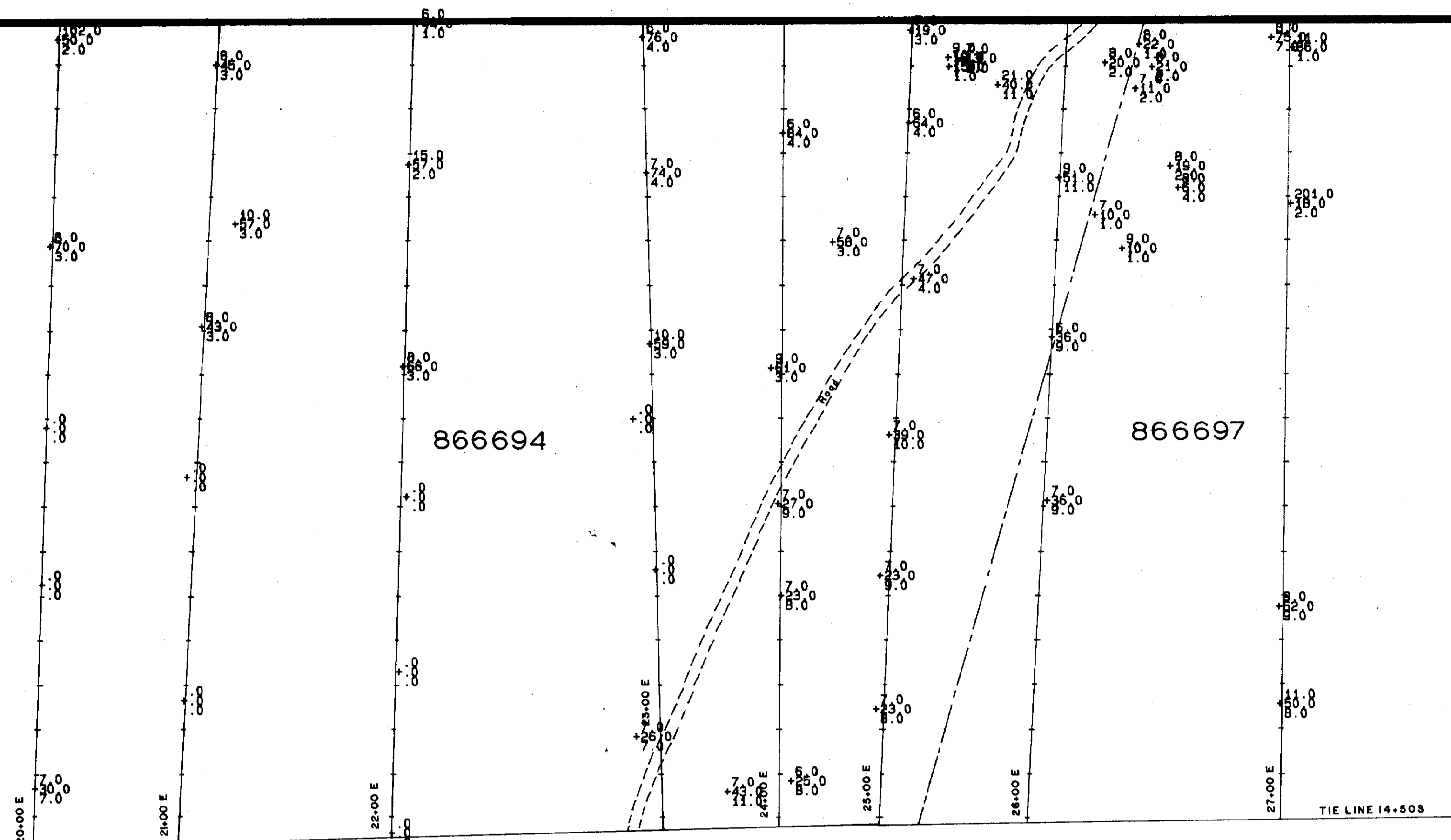
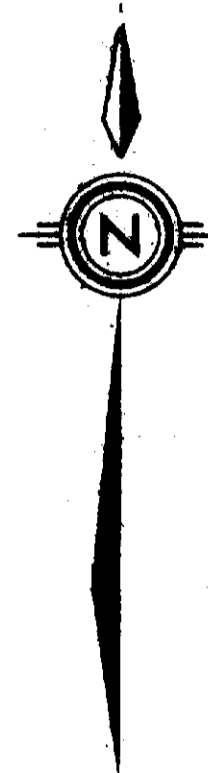
- CLAIM BOUNDARY -----
- CUT OR FILL CREST - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE ○
- FENCE X X X
- POWER LINE —●—
- RAILWAY AND RIGHT OF WAY SMALL SCALE ++++
LARGE SCALE =====

SHEET INDEX

E	D	C																																			
	<table border="1"> <tr> <td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td> <td>b3</td><td>b4</td> </tr> <tr> <td>A6</td><td>A7</td><td>A8</td><td>A9</td><td>A10</td> <td>B</td> <td></td> </tr> <tr> <td>A11</td><td>A12</td><td>A13</td><td>A14</td><td>A15</td> <td></td><td></td> </tr> <tr> <td>A16</td><td>A17</td><td>A18</td><td>A19</td><td>A20</td> <td>b2</td><td>b1</td> </tr> <tr> <td>A21</td><td>A22</td><td>A23</td><td>A24</td><td>A25</td> <td></td><td></td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A6	A7	A8	A9	A10	B		A11	A12	A13	A14	A15			A16	A17	A18	A19	A20	b2	b1	A21	A22	A23	A24	A25			
A1	A2	A3	A4	A5	b3	b4																															
A6	A7	A8	A9	A10	B																																
A11	A12	A13	A14	A15																																	
A16	A17	A18	A19	A20	b2	b1																															
A21	A22	A23	A24	A25																																	
G	H	I																																			

SCALE: 1:2000

2,12785
R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A-18 PLATE No. 4
 DRAWN BY: R. Somerville P.Eng.
 DATE: September 15, 1989.



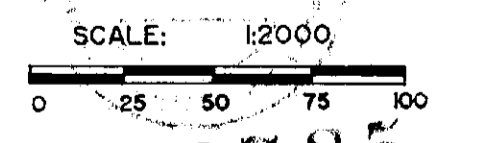
LEGEND

+ COPPER PPM.
 + ZINC PPM.
 + BORON PPM.

- CUT OR FILL CREST - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE ○
- FENCE - x - x -
- POWER LINE ● ● ● ● ● RED
- RAILWAY AND RIGHT OF WAY SMALL SCALE LARGE SCALE

SHEET INDEX

E	D	C																															
	<table border="1"> <tr> <td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td> </tr> <tr> <td>A10</td><td>A9</td><td>A8</td><td>A7</td><td>A6</td> </tr> <tr> <td>A11</td><td>A12</td><td>A</td><td>A14</td><td>A15</td> </tr> <tr> <td>A20</td><td>A19</td><td>A18</td><td>A17</td><td>A16</td> </tr> <tr> <td>A21</td><td>A22</td><td>A23</td><td>A24</td><td>A25</td> </tr> </table>	A1	A2	A3	A4	A5	A10	A9	A8	A7	A6	A11	A12	A	A14	A15	A20	A19	A18	A17	A16	A21	A22	A23	A24	A25	<table border="1"> <tr> <td>b3</td><td>b4</td> </tr> <tr> <td>B</td><td></td> </tr> <tr> <td>b2</td><td>b1</td> </tr> </table>	b3	b4	B		b2	b1
A1	A2	A3	A4	A5																													
A10	A9	A8	A7	A6																													
A11	A12	A	A14	A15																													
A20	A19	A18	A17	A16																													
A21	A22	A23	A24	A25																													
b3	b4																																
B																																	
b2	b1																																
G	H	I																															

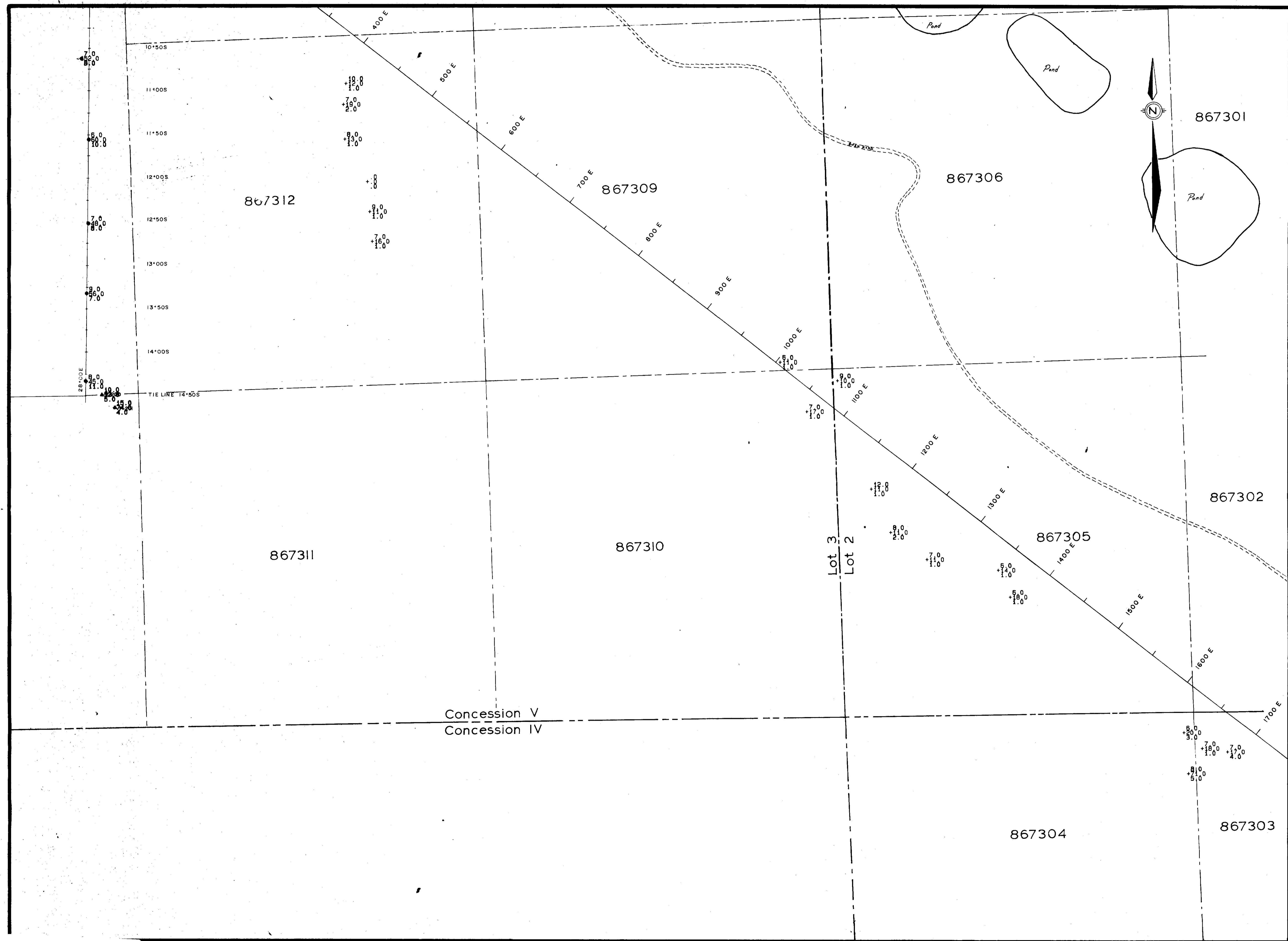


2.12785

R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A-24 PLATE No. 4
 DRAWN BY: R. Somerville P.Eng.
 DATE: September 15, 1989.





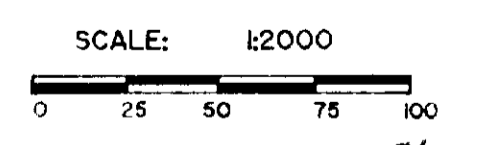
LEGEND

COPPER PPM
 ZINC PPM
 BORON PPM

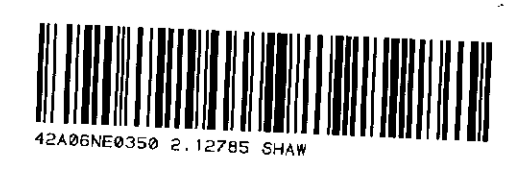
- GRAB SAMPLES Δ
- CLAIM BOUNDARY $---$
- TOE $|||||$
- DIAMOND DRILL HOLE \circ
- FENCE $---$
- POWER LINE $---$ RED
- RAILWAY AND RIGHT OF WAY $---$ SMALL SCALE
 $---$ LARGE SCALE

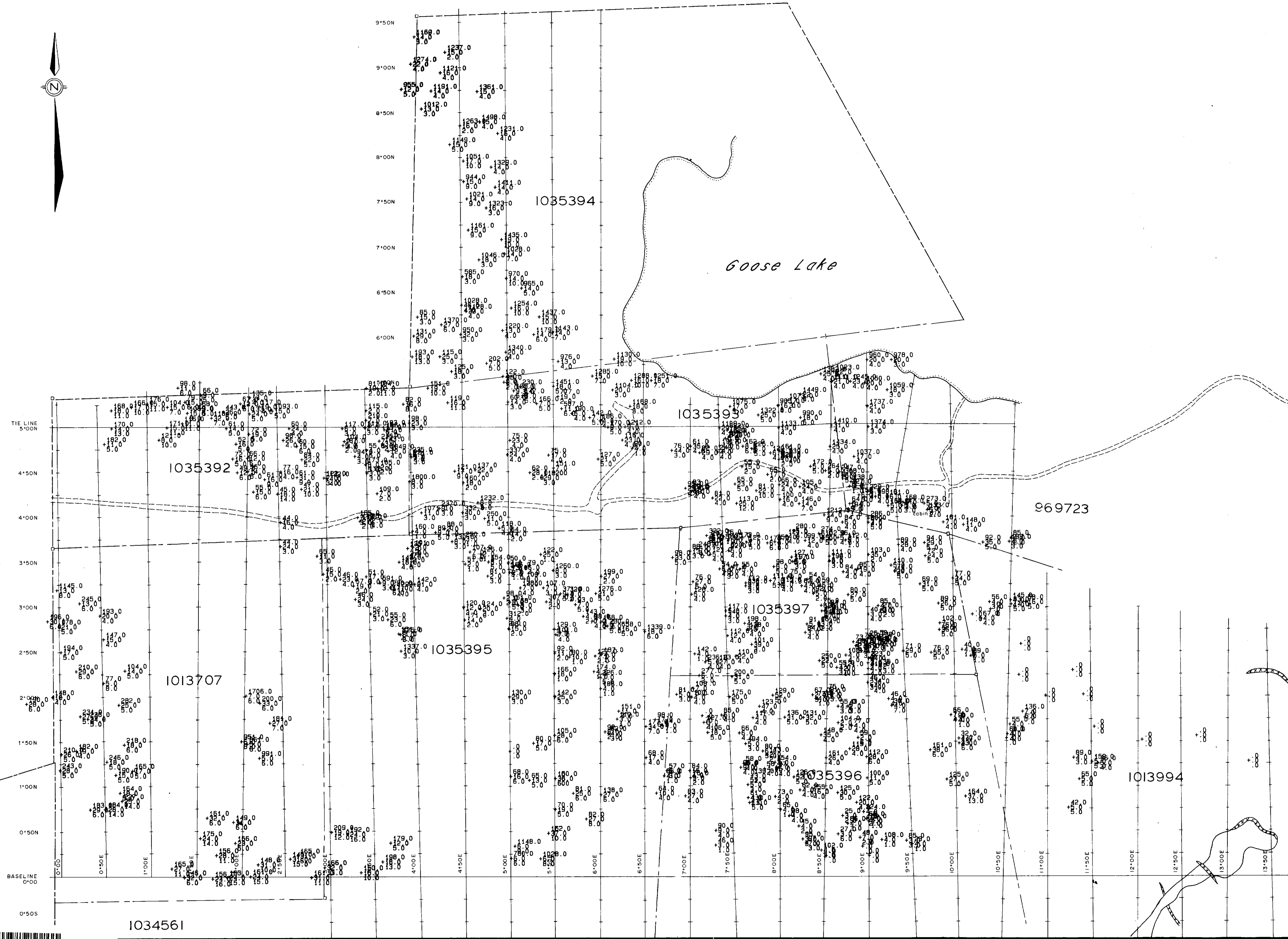
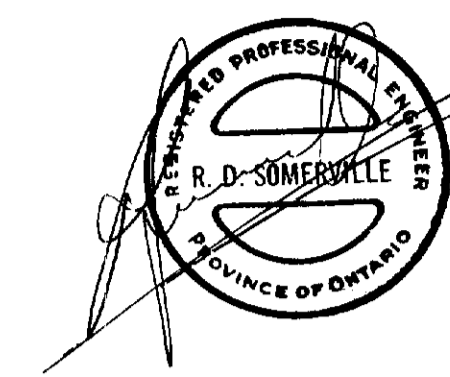
SHEET INDEX

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



2. 12785
 R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A 25 PLATE No. _____
 BY: R. Somerville P.Eng.
 DATE: September 15, 1989.





- CHROMIUM ppm
 - LITHIUM ppm
 - BISMUTH ppm
- CLAIM BOUNDARY - - - - -
 - TOE - - - - -
 - DIAMOND DRILL HOLE ○
 - FENCE * * *
 - POWER LINE ● ● ●
 - RAILWAY AND RIGHT OF WAY - - - - -
- SMALL SCALE +++
LARGE SCALE - - - - -

SHEET INDEX

E	D	C																																			
	<table border="1"> <tr> <td>A1</td> <td>A2</td> <td>A3</td> <td>A4</td> <td>A5</td> <td rowspan="2">b3</td> <td rowspan="2">b4</td> </tr> <tr> <td>A6</td> <td>A7</td> <td>A8</td> <td>A9</td> <td>A10</td> </tr> <tr> <td>F</td> <td>A11</td> <td>A12</td> <td>A13</td> <td>A14</td> <td>A15</td> <td>B</td> </tr> <tr> <td></td> <td>A16</td> <td>A17</td> <td>A18</td> <td>A19</td> <td>A20</td> <td>b2</td> <td>bl</td> </tr> <tr> <td></td> <td>A21</td> <td>A22</td> <td>A23</td> <td>A24</td> <td>A25</td> <td></td> <td></td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A6	A7	A8	A9	A10	F	A11	A12	A13	A14	A15	B		A16	A17	A18	A19	A20	b2	bl		A21	A22	A23	A24	A25			
A1	A2	A3	A4	A5	b3	b4																															
A6	A7	A8	A9	A10																																	
F	A11	A12	A13	A14	A15	B																															
	A16	A17	A18	A19	A20	b2	bl																														
	A21	A22	A23	A24	A25																																
G	H	I																																			

SCALE: 1:2000

0 25 50 75 100

2.12783

R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY

TOTAL ENERGOLD CORPORATION

Shaw #1 Property

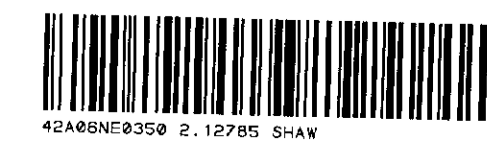
Shaw Twp., Ontario

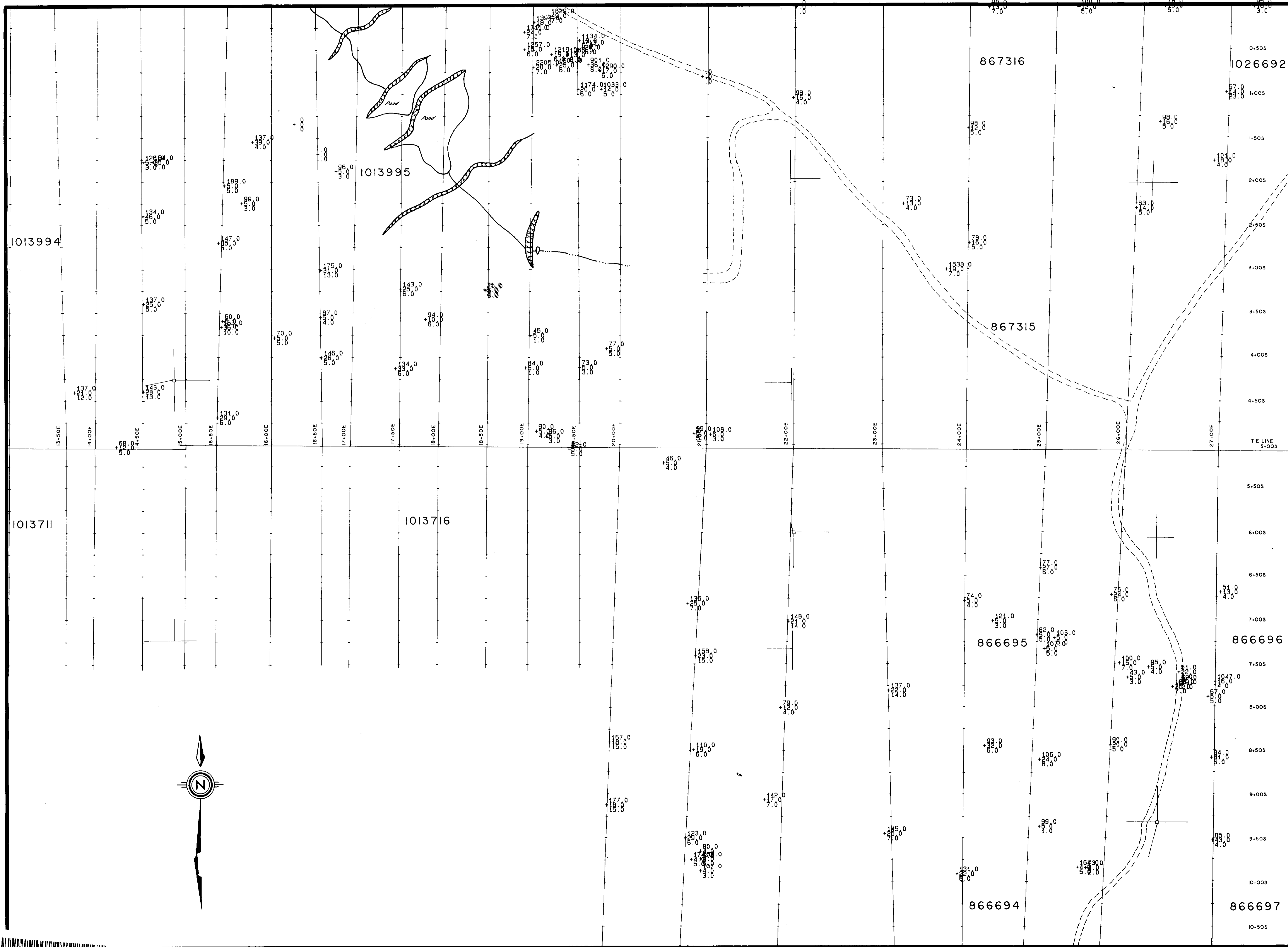
Porcupine Mining Division

MAP No. A13 PLATE No. 5

DRAWN BY: R. Somerville P. Eng.

DATE: September 15, 1989.





LEGEND

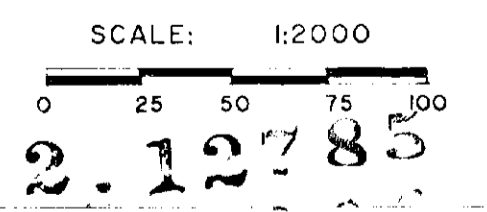
CHROMIUM ppm
 LITHIUM ppm
 BISMUTH ppm



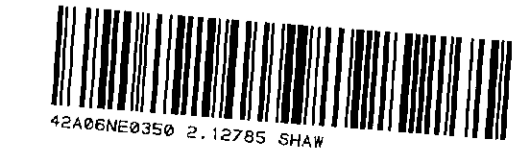
- TRENCH OR PIT
- CLAIM POST
- CLAIM BOUNDARY
- TOE
- DIAMOND DRILL HOLE
- FENCE
- POWER LINE
- RAILWAY AND RIGHT OF WAY

SHEET INDEX

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



R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A17 PLATE No. 5
 By: R. Somerville P. Eng.
 DATE: September 15, 1989.





1034561

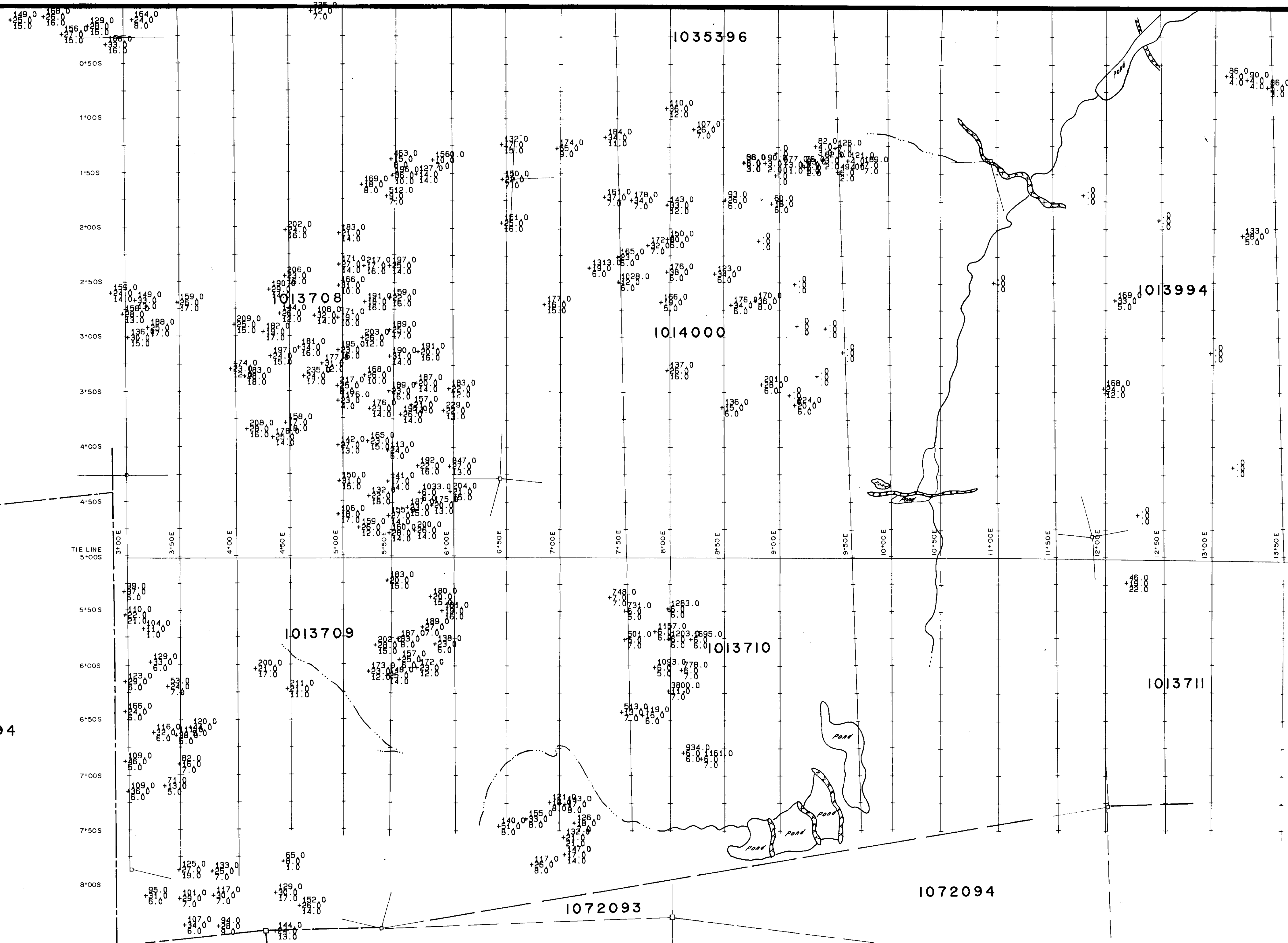
1034562

(P) 26693

(P) 26694

(P) 15321

(P) 15322



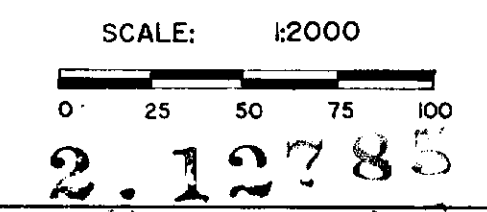
CHROMIUM PPM
 LITHIUM PPM
 BISMUTH PPM



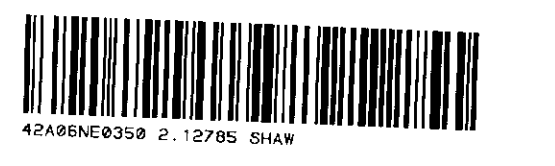
- CLAIM BOUNDARY - - - - -
- CUT OR FILL CREST - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE - - - - -
- FENCE - x - x -
- POWER LINE - - - - -
- RAILWAY AND RIGHT OF WAY - - - - -

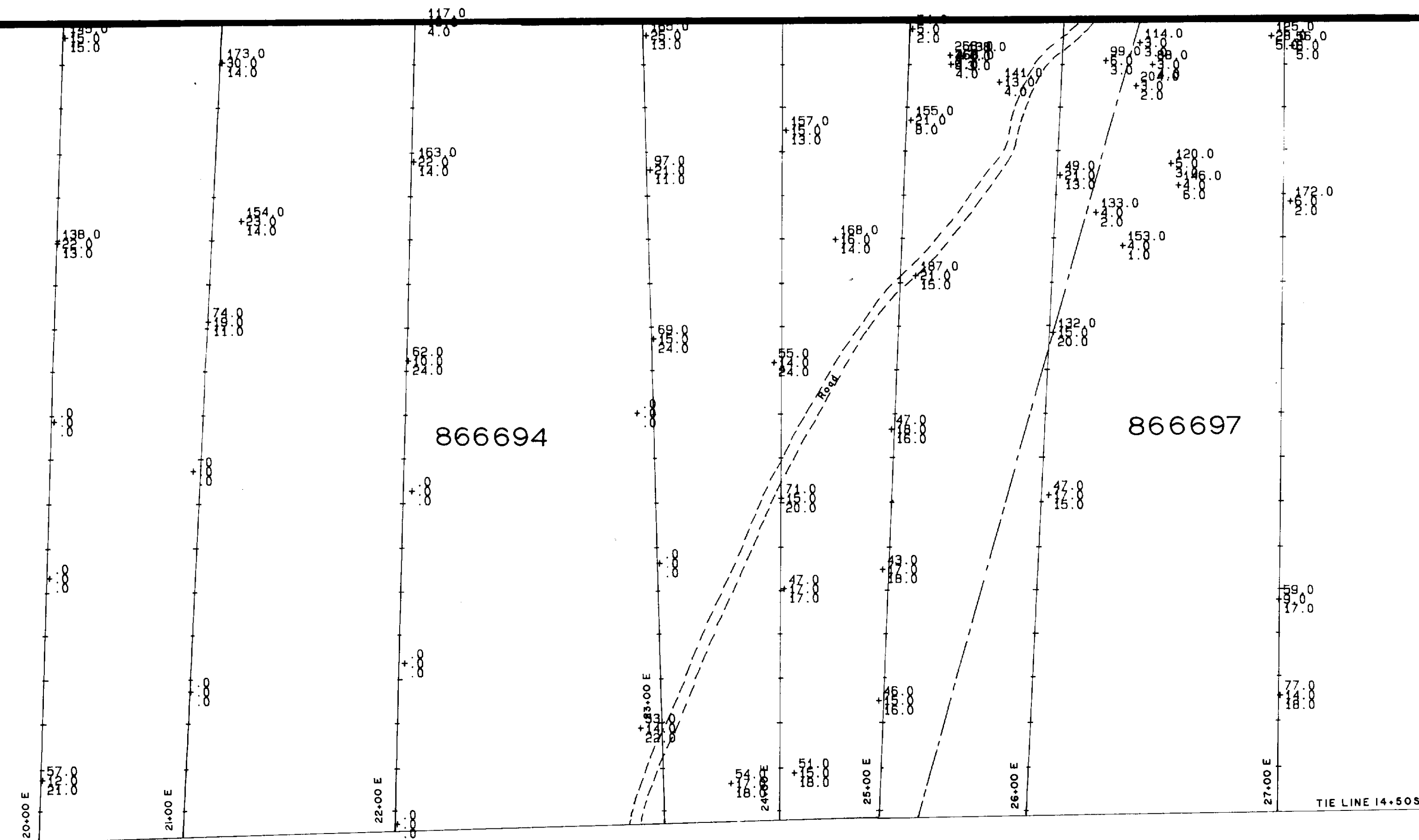
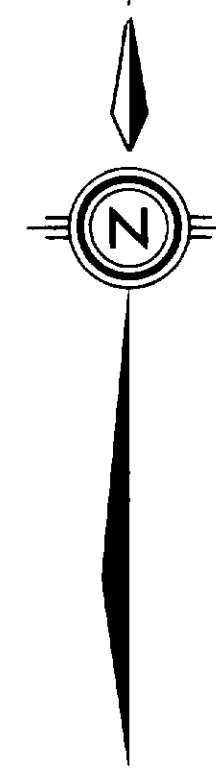
SHEET INDEX

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

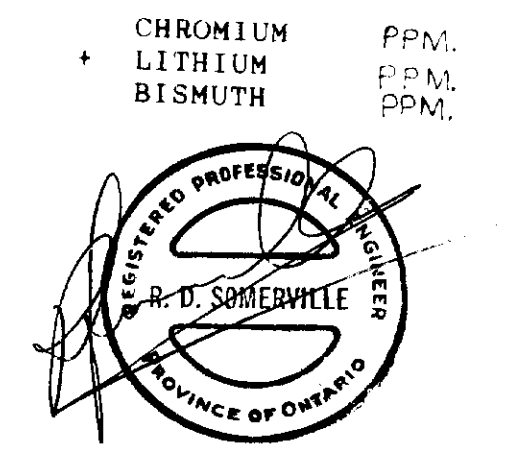


R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A-18 PLATE No. 5
 DRAWN BY: R. Somerville, P. Eng.
 DATE: September 15, 1989.





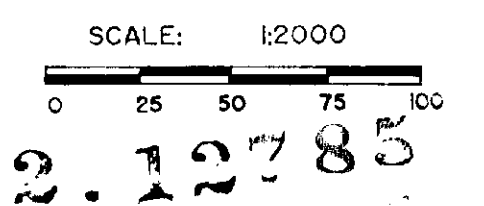
LEGEND



- CUT OR FILL CREST - - - - -
- TOE |||||
- DIAMOND DRILL HOLE ○
- FENCE - x - x -
- POWER LINE ● ● ● ● ● RED
- RAILWAY AND RIGHT OF WAY SMALL SCALE LARGE SCALE

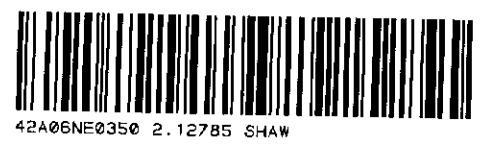
SHEET INDEX

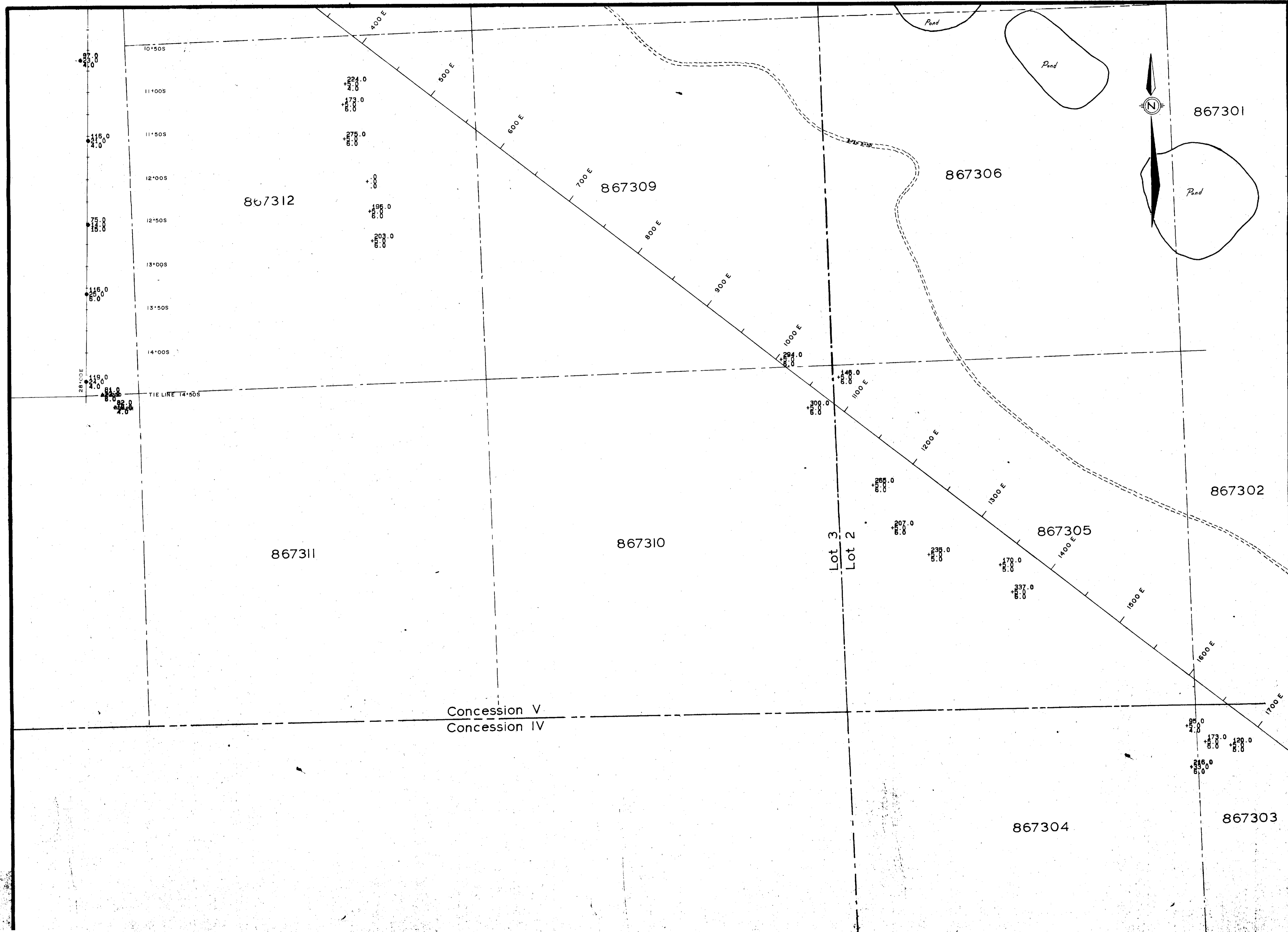
E	D	C																															
	<table border="1" style="width: 100%; border-collapse: collapse; text-align: left;"> <tr> <td>A1</td><td>A2</td><td>A3</td><td>A4</td><td>A5</td> <td rowspan="2">b3</td> <td rowspan="2">b4</td> </tr> <tr> <td>A10</td><td>A9</td><td>A8</td><td>A7</td><td>A6</td> </tr> <tr> <td>A11</td><td>A12</td><td>A</td><td>A14</td><td>A15</td> <td rowspan="2">B</td> <td rowspan="2">b1</td> </tr> <tr> <td>A20</td><td>A19</td><td>A18</td><td>A17</td><td>A16</td> </tr> <tr> <td>A21</td><td>A22</td><td>A23</td><td>A24</td><td>A25</td> <td>b2</td> <td>bl</td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A10	A9	A8	A7	A6	A11	A12	A	A14	A15	B	b1	A20	A19	A18	A17	A16	A21	A22	A23	A24	A25	b2	bl	
A1	A2	A3	A4	A5	b3	b4																											
A10	A9	A8	A7	A6																													
A11	A12	A	A14	A15	B	b1																											
A20	A19	A18	A17	A16																													
A21	A22	A23	A24	A25	b2	bl																											
	F																																
G	H	I																															



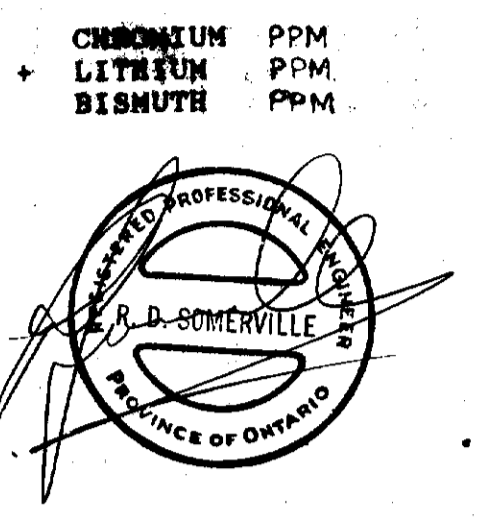
R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Percupine Mining Division
 MAP No. A-24 PLATE No. 5
 DRAWN BY: R. Somerville P.Eng.
 DATE: September 15, 1989.





LEGEND



CHROMIUM PPM
LITHIUM PPM
BISMUTH PPM

- GRAB SAMPLES Δ
- CLAIM BOUNDARY
- TOE
- DIAMOND DRILL HOLE
- FENCE
- POWER LINE
- RAILWAY AND RIGHT OF WAY

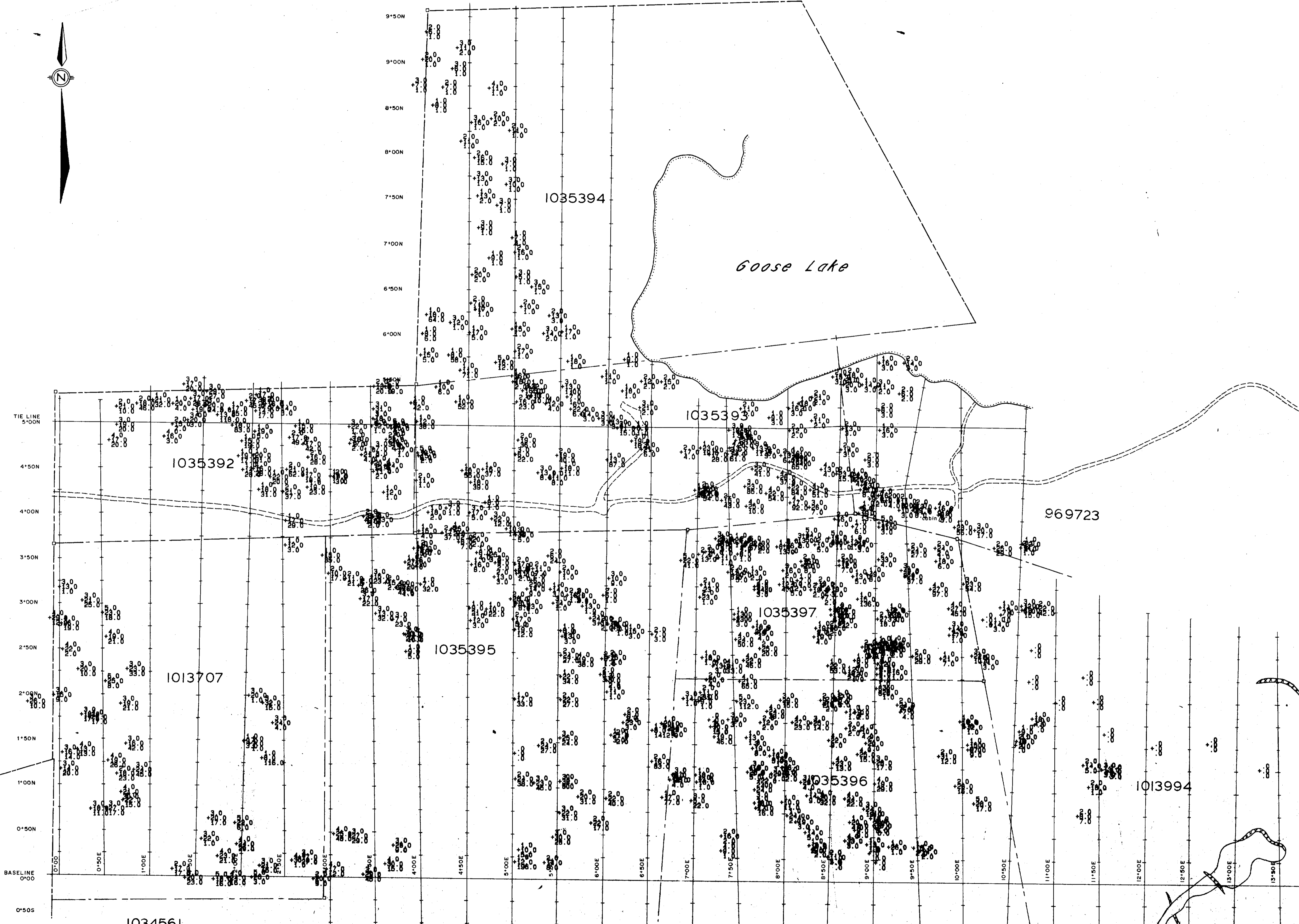
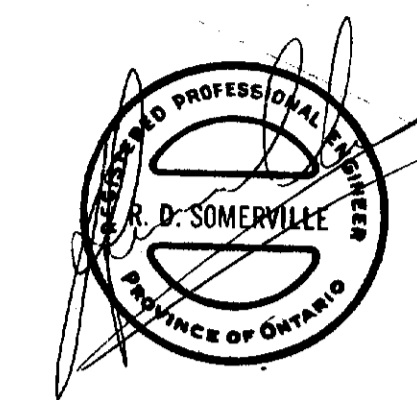
SHEET INDEX

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

SCALE: 1:2000

R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOLD CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A-25 PLATE No. 5
 BY: R. Somerville P.Eng.
 DATE: September 15, 1989.





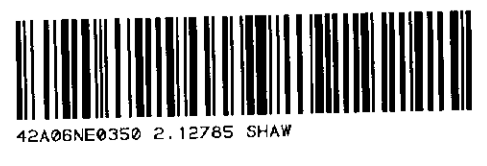
- MOLYBDENUM ppm
 - + LEAD ppm
 - BARIUM ppm
- CLAIM BOUNDARY - - - - -
 - TOE - - - - -
 - DIAMOND DRILL HOLE ○
 - FENCE × × × × ×
 - POWER LINE ● ● ● ● ●
 - RAILWAY AND RIGHT OF WAY - - - - -
- RED SMALL SCALE
BLACK LARGE SCALE

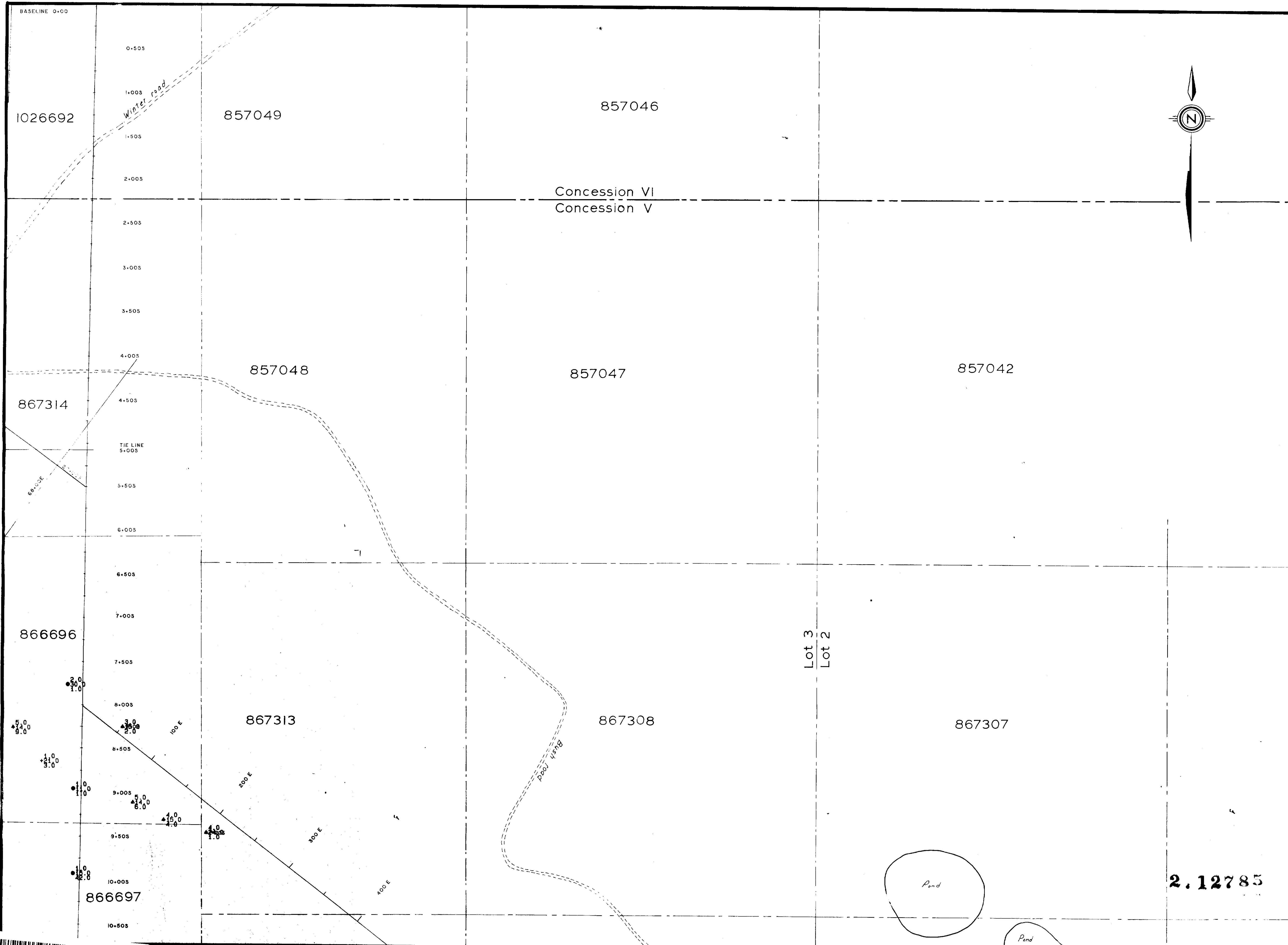
SHEET INDEX

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

SCALE: 1:2000
0 25 50 75 100
2.12785

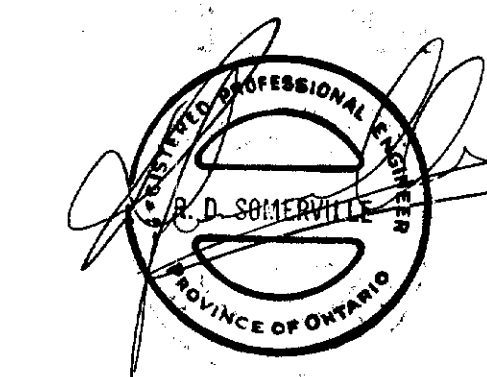
R. SOMERVILLE ENGINEERING LTD.
ROCK GEOCHEM SURVEY
TOTAL ENERGOLD CORPORATION
Shaw #1 Property
Shaw Twp., Ontario
Porcupine Mining Division
MAP No. A13 PLATE No. 6
DRAWN BY: R. Somerville P. Eng.
DATE: September 15, 1989.





LEGEND

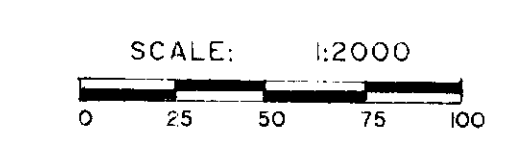
MOLYBDENUM PPM.
LEAD PPM.
BARIUM PPM.



- PLUGGER DUST SAMPLE ●
- GRAB SAMPLES ▲
- CLAIM BOUNDARY - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE ○
- FENCE - x - x -
- POWER LINE - ● - ● -
- RAILWAY AND RIGHT OF WAY SMALL SCALE - + + + -
- LARGE SCALE - + + + -

SHEET INDEX

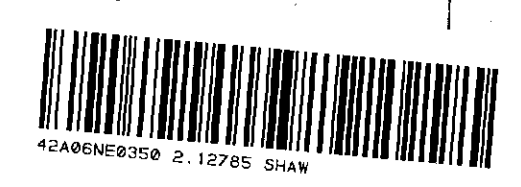
E	D	C
	A1 A2 A3 A4 A5 A6 A7 A8 A9 A10	b3 b4
F	A11 A12 A13 A14 A15 A16 A17 A18 A19 A20	b1 b2 b4
G	H	I

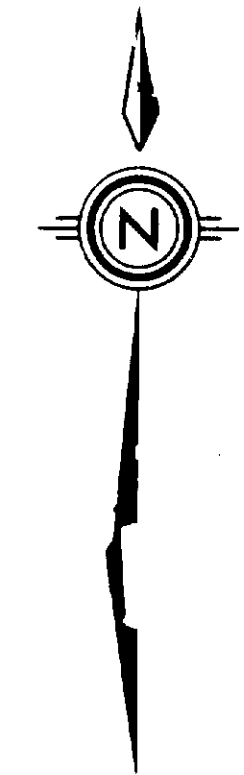
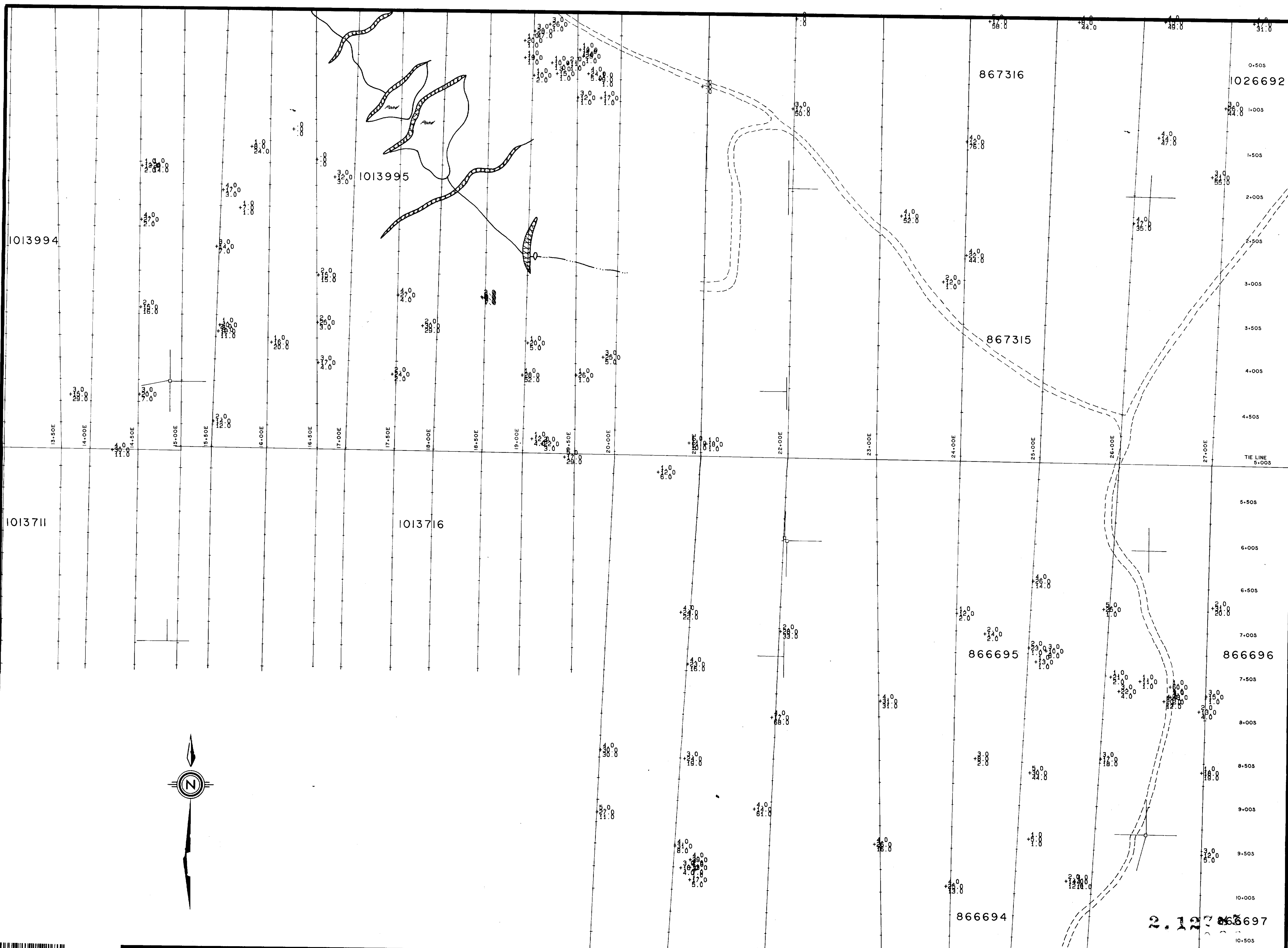


R. SOMERVILLE ENGINEERING LTD.

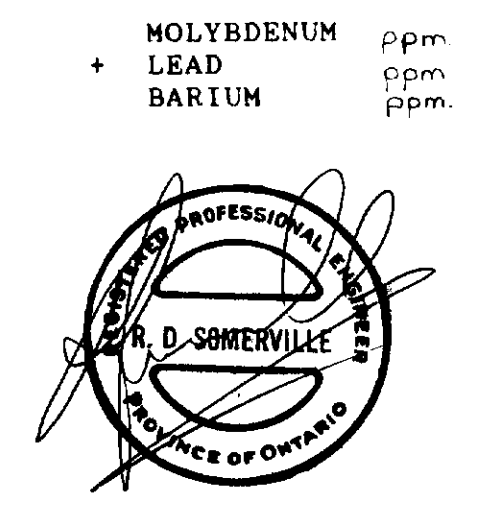
ROCK GEOCHEM SURVEY
TOTAL ENERGOLD CORPORATION
Shaw #1 Property
Shaw Twp., Ontario
Porcupine Mining Division
MAP No. A-16 PLATE No. 6
By: R. Somerville P. Eng.
DATE: September 15, 1989.

2.12785





LEGEND

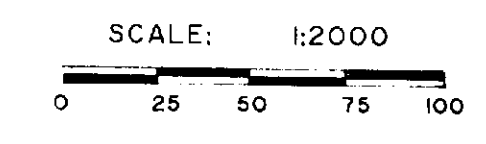


- MOLYBDENUM ppm
 - LEAD ppm
 - BARIUM ppm
- Tr- TRENCH OR PIT
 - CLAIM POST □
 - CLAIM BOUNDARY - - - - -
 - TOE - - - - -
 - DIAMOND DRILL HOLE ○
 - FENCE x x x x
 - POWER LINE ● ● ● ●
 - RAILWAY AND RIGHT OF WAY

- RED
- SMALL SCALE
- LARGE SCALE

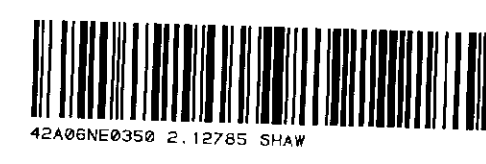
SHEET INDEX

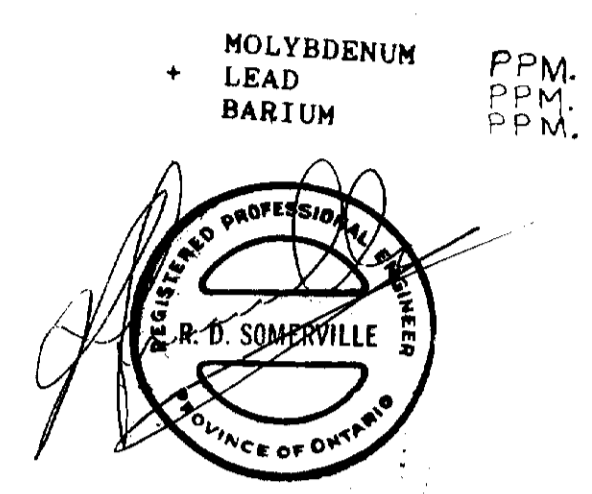
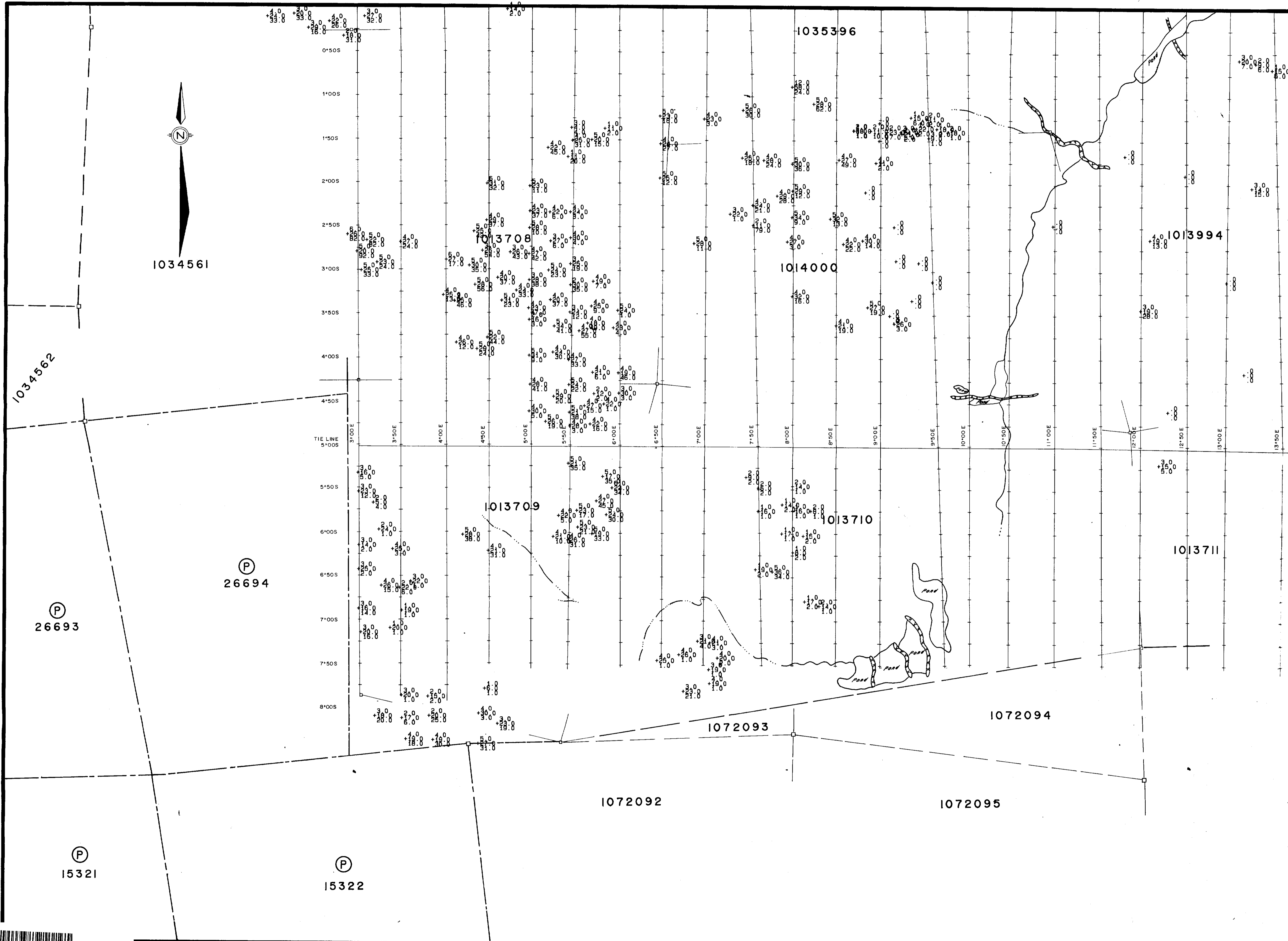
E	D	C
A1 A2 A3 A4 A5	A6 A7 A8 A9 A10	b3 b4
F	A11 A12 A13 A14 A15	B
	A16 A17 A18 A19 A20	b2 b1
G	H	I



R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
TOTAL ENERGOLD CORPORATION
Shaw #1 Property
Shaw Twp., Ontario
Porcupine Mining Division
MAP No. A 17 PLATE No. 6
By: R. Somerville P. Eng.
DATE: September 15, 1989.



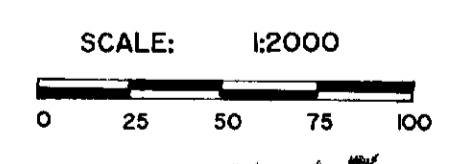


MOLYBDENUM
LEAD
BARIUM
PPM.
PPM.
PPM.

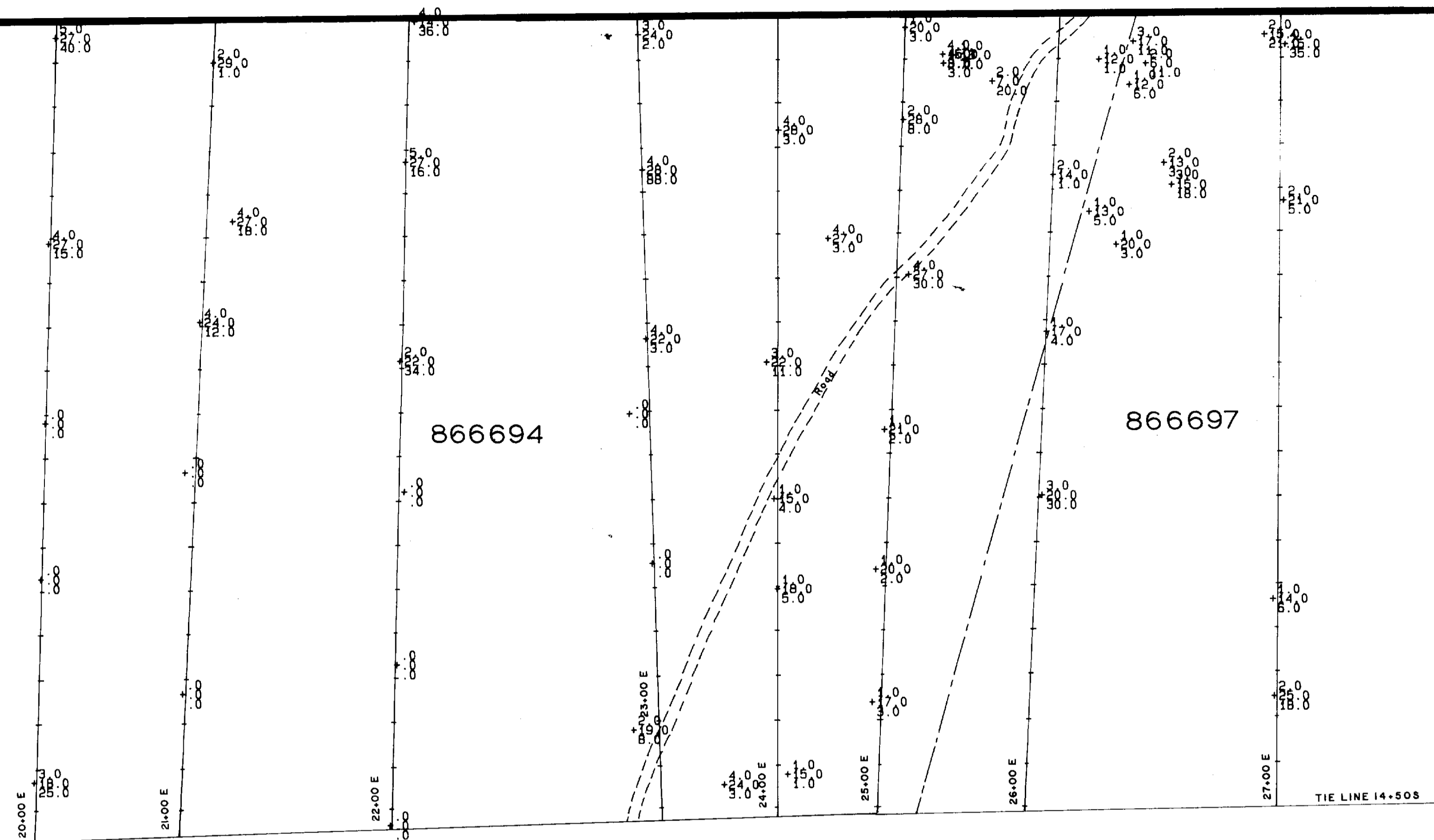
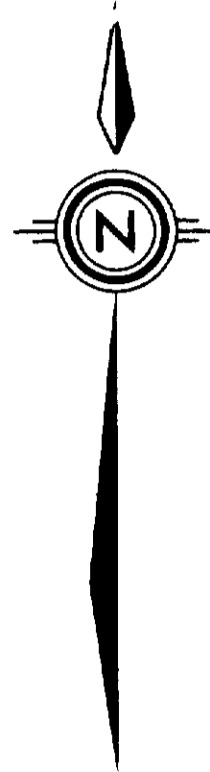
- CLAIM BOUNDARY ————
 - CUT OR FILL CREST - - - - -
 - TOE ||| ||| ||| |||
 - DIAMOND DRILL HOLE ○
 - FENCE X X X X
 - POWER LINE —●—
 - RAILWAY AND RIGHT OF WAY —+—
- SMALL SCALE
LARGE SCALE

SHEET INDEX

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



2. 12785
R. SOMERVILLE ENGINEERING LTD.
ROCK GEOCHEM SURVEY
TOTAL ENERGOLD CORPORATION
Shaw #1 Property
Shaw Twp., Ontario
Porcupine Mining Division
MAP No. A-18 PLATE No. 6
DRAWN BY: R. Somerville P. Eng.
DATE: September 15, 1989.



LEGEND

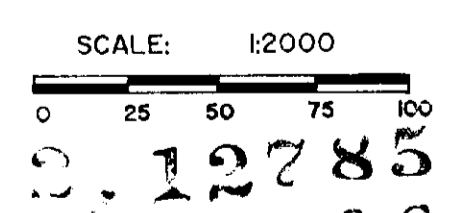
+ MOLYBDENUM PPM,
 LEAD PPM,
 BARIUM PPM.



- CUT OR FILL CREST - - - - -
- TOE - - - - -
- DIAMOND DRILL HOLE ○
- FENCE - x - x -
- POWER LINE ● ● ● ● ● RED
- RAILWAY AND RIGHT OF WAY SMALL SCALE + + + + +
LARGE SCALE = = = = =

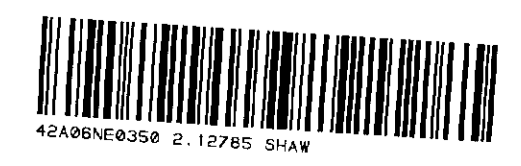
SHEET INDEX

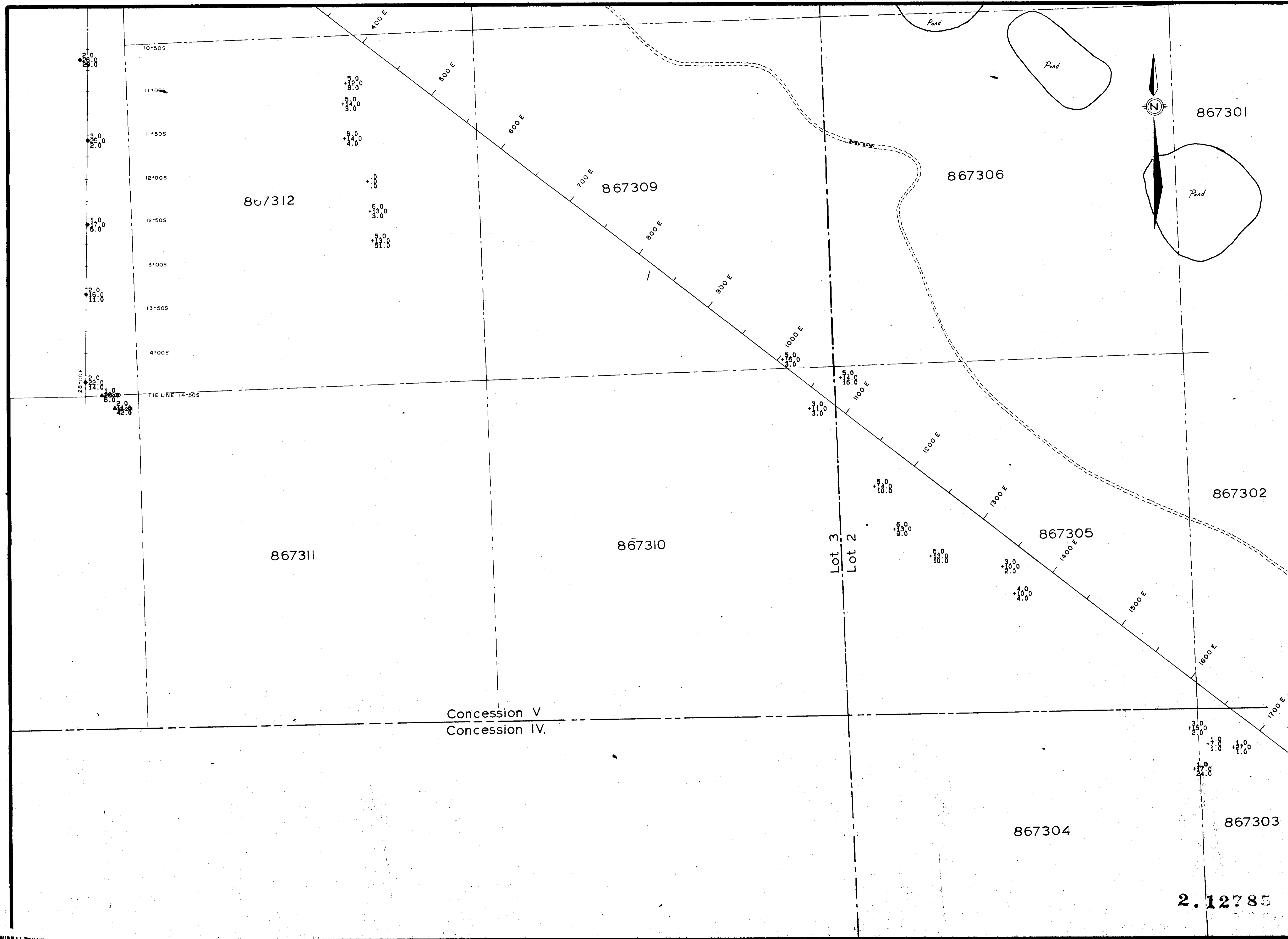
E	D	C																																
	<table border="1"> <tr> <td>A1</td> <td>A2</td> <td>A3</td> <td>A4</td> <td>A5</td> <td rowspan="2">b3</td> <td rowspan="2">b4</td> </tr> <tr> <td>A6</td> <td>A9</td> <td>A8</td> <td>A7</td> <td>A6</td> </tr> <tr> <td rowspan="2">F</td> <td>A8</td> <td>A2</td> <td>A</td> <td>A4</td> <td>A5</td> <td rowspan="2">B</td> </tr> <tr> <td>A20</td> <td>A19</td> <td>A18</td> <td>A17</td> <td>A16</td> </tr> <tr> <td></td> <td>A21</td> <td>A22</td> <td>A23</td> <td>A24</td> <td>A25</td> <td>b2</td> <td>bl</td> </tr> </table>	A1	A2	A3	A4	A5	b3	b4	A6	A9	A8	A7	A6	F	A8	A2	A	A4	A5	B	A20	A19	A18	A17	A16		A21	A22	A23	A24	A25	b2	bl	
A1	A2	A3	A4	A5	b3	b4																												
A6	A9	A8	A7	A6																														
F	A8	A2	A	A4	A5	B																												
	A20	A19	A18	A17	A16																													
	A21	A22	A23	A24	A25	b2	bl																											
C	H	I																																



R. SOMERVILLE ENGINEERING LTD.

ROCK GEOCHEM SURVEY
TOTAL ENERGOID CORPORATION
 Show #1 Property
 Shaw Twp., Ontario
 Percupine Mining Division
 MAP No. A-24 PLATE No. 6
 DRAWN BY: R. Somerville P. Eng.
 DATE: September 15, 1989.





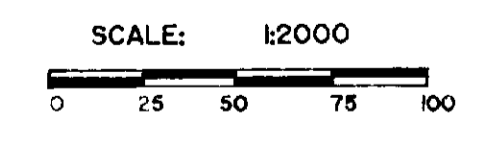
LEGEND

+ MOLYBDENUM PPM
 + LEAD PPM
 + BARIUM PPM

- GRAB SAMPLES Δ
- CLAIM BOUNDARY - - - - -
- TOE |||
- DIAMOND DRILL HOLE \circ
- FENCE - x - x - x
- POWER LINE - - - - -
- RAILWAY AND RIGHT OF WAY SMALL SCALE \equiv
LARGE SCALE \equiv

SHEET INDEX

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



R. SOMERVILLE ENGINEERING LTD.
 ROCK GEOCHEM SURVEY
 TOTAL ENERGOIL CORPORATION
 Shaw #1 Property
 Shaw Twp., Ontario
 Porcupine Mining Division
 MAP No. A 25 PLATE No. 6
 BY: R. Somerville P.Eng.
 DATE: September 15, 1989.

2.12785

