



52F16SW0031 2.8677 LAVAL

BILLITON CANADA LTD.
REPORT ON A
GEOLOGICAL SURVEY
OF THE
TROUTFLY LAKE PROPERTY
LAVAL TOWNSHIP
KENORA MINING DIVISION
ONTARIO

N.T.S. 52F/16

Lat. 49°50' Long. 92°30'

RECEIVED
NOV 18 1985
MINING DIVISION

J.A. Goodwin
November, 1985



52F16SW0031 2.8677 LAVAL

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INTRODUCTION

The following report describes a geological mapping and geochemical sampling program that took place between May 26th and June 19th, 1985, on the Troutfly Lake Property of Billiton Canada Ltd.

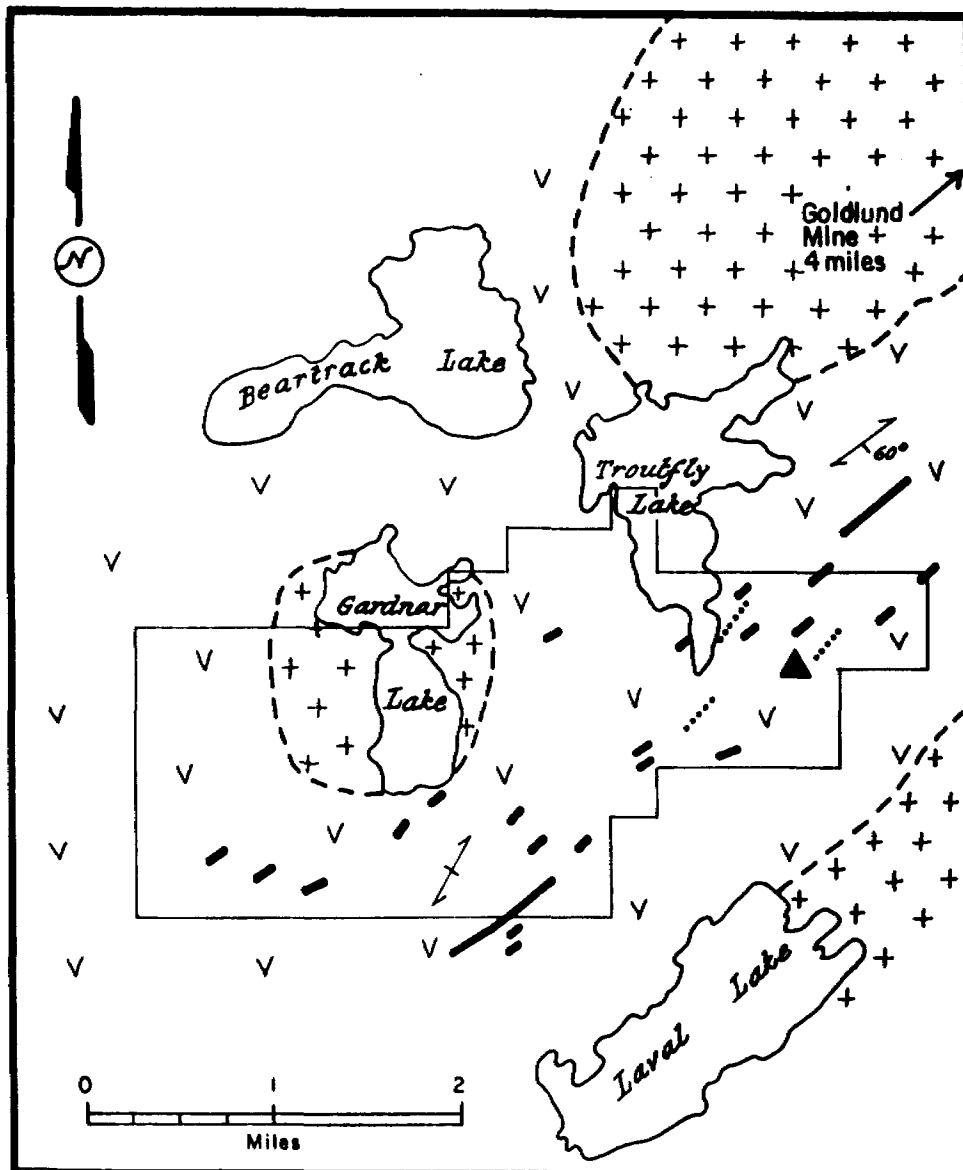
Mapping was done at the scale of 1:5,000 on 85 kilometers of cut grid with lines spaced 200 meters apart.

PROPERTY DESCRIPTION

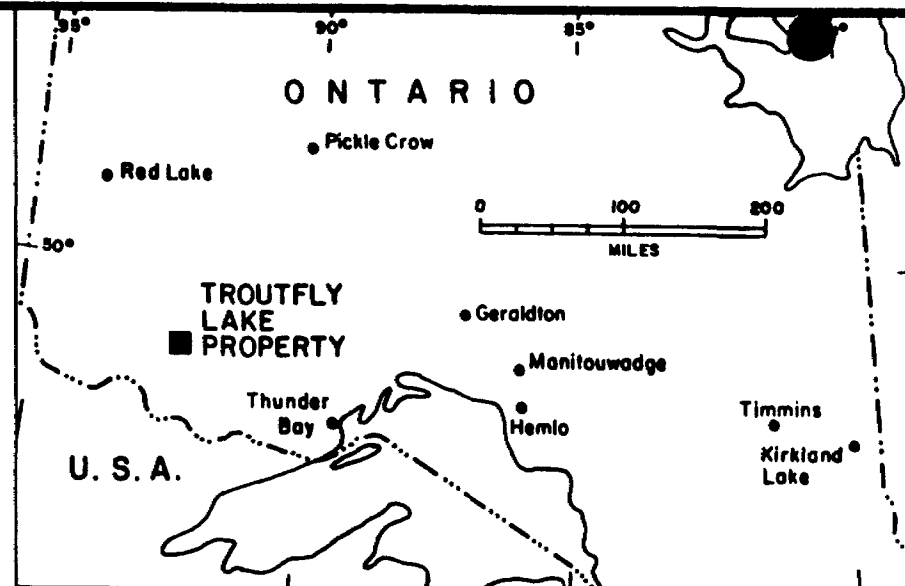
The property consists of 92 contiguous unpatented mining claims covering approximately 3,680 acres located south and west of Troutfly Lake in east-central Laval Township in the Kenora Mining Division of Northwestern Ontario (Appendix A). The claims are shown in Figure 2. The claim map of Laval Township indicates a narrow strip of unstaked ground in the extreme east part of the property separating claims 645104 and 645107 on the west from claims 639092 and 639122 on the east. These claims are in fact contiguous, the appropriate claim posts abutting one another.

LOCATION, ACCESS AND INFRASTRUCTURE

The property lies 16 miles northeast of Dryden about mid-way between Winnipeg, Manitoba and Thunder Bay, Ontario (Figure 1). Dryden, a forest product and pulp and paper community with a population of 6,500 has a well-developed infrastructure being on the Trans Canada Highway and the Canadian Pacific Railway main line which provides daily freight and passenger service. Regional air carrier Nordair provides daily jet service with direct flights to Winnipeg, Thunder Bay, Sault Ste. Marie, Toronto and Montreal. Natural gas and hydroelectric power are readily available in the area.



- + Granite
- V Mafic volcanic
- Quartz porphyry dyke
- EM anomaly (Mistango)
- ▲ Approx. location of Calder - Bousquet Prospect



BILLITON CANADA LIMITED
TROUTFLY LAKE PROPERTY

LOCATION MAP

AUTHOR:	JAG	MAP No:	52F/15,16	SCALE:
DRAWN BY:	DATE	REPORT:		ENCL. No:
heml	sept 84			

Figure 1

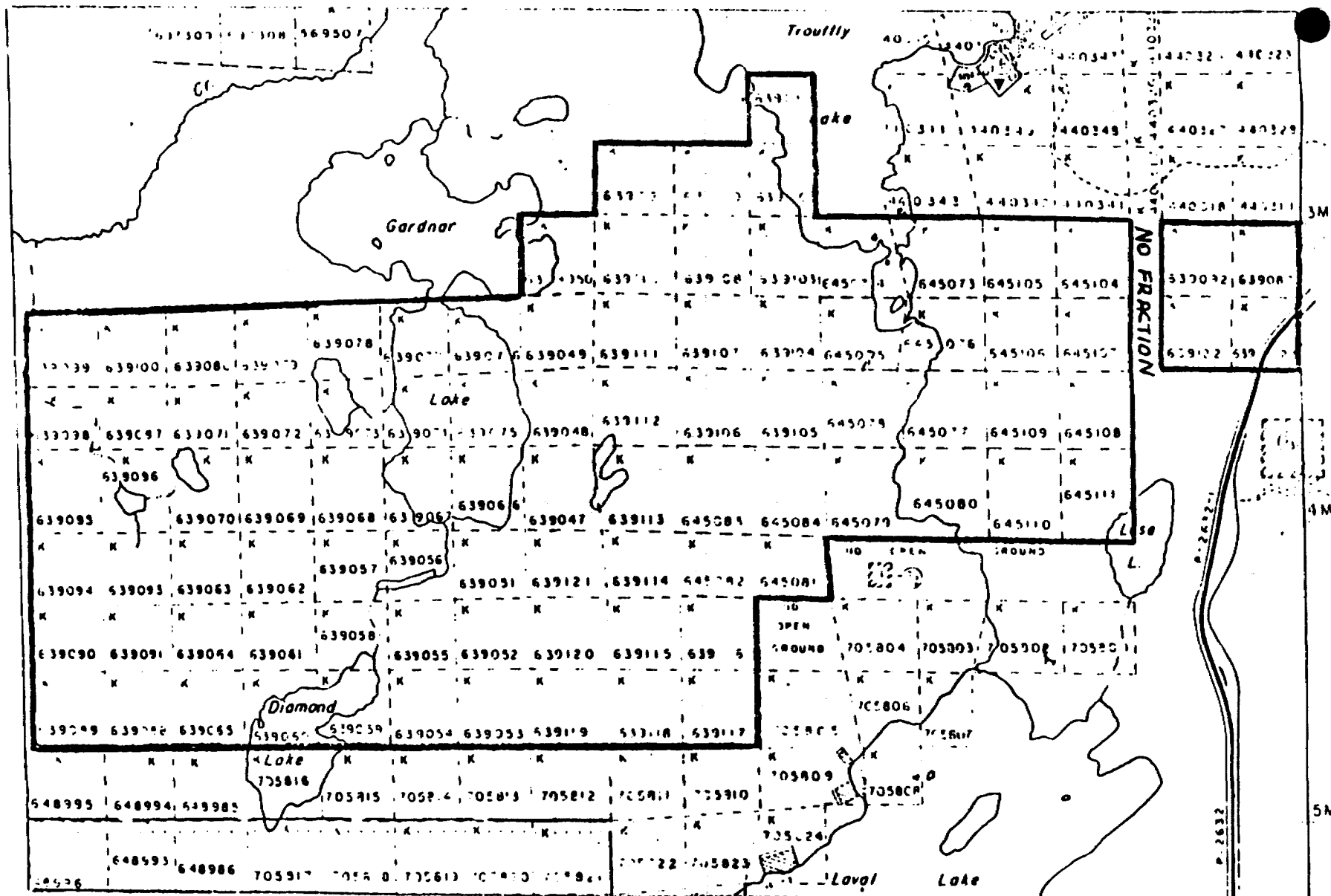


FIGURE 2

CLAIM MAP

From Plan M. 3370 LAVAL TOWNSHIP
 Ministry of Natural Resources of Ontario

Scale: 1" to 1/2" mile

Access to the Troutfly Lake Property itself is by a secondary gravel road leading west onto the claim group from paved Highway 72 about 10 miles north of Dinorwic, 17 miles east from Dryden along the Trans Canada Highway. Water for diamond drilling and general camp use is available on the property and food, sundry supplies and fuel can be obtained at either Dryden or Dinorwic.

HISTORY OF THE PROPERTY

The area was mapped by Satterley for the Ontario Department of Mines in 1941. Claims were staked in the area during 1950 and worked in 1951 by both Calder-Bousquet Mines Ltd. and Eclund Mines Ltd.

Both Satterley and Calder-Bousquet located a number of northeast-trending "granodiorite" dykes on the property. At least three of these are heavily altered with sericite, tourmaline, quartz veining, carbonate and sulphides and have returned grab sample values of up to 4.66 g/t gold.

Calder-Bousquet drilled 11 holes to test a 15 meter wide zone for 300 meters strike and to a depth of thirty meters. The best intersection was 8.4 g/t (0.27 oz/t) gold over an unspecified width. The company estimates that it has outlined 41,500 t of 4.66 g/t (0.15 oz/t) gold.

Selco Mining Corporation Ltd. conducted EM and magnetometer surveys over part of the claims in 1977 and 1978 and drilled a number of base metal targets in 1978.

Mistango Exploration Ltd. did a limited geological investigation of the eastern part of the claims, a limited ground magnetometer survey and flew airborne VLF-EM and magnetometer surveys over the whole property.

Billiton optioned the property in late 1984, cut 85 kilometers of grid and did ground VLF-EM, total field and gradiometer magnetic surveys over the entire property.

1985 PROGRAM

The aims of the 1985 program were to:

- (1) Geologically map the property with emphasis on locating and defining trondhjemite or quartz-porphyry dykes with potential for Goldlund-style gold mineralization;
- (2) Extensively sample the dykes to locate areas of gold mineralization; and
- (3) To locate and investigate the Calder-Bousquet Showing.

REGIONAL GEOLOGY

The Troutfly Lake Property lies towards the center of the Savant Lake/Crow Lake metavolcanic-metasedimentary belt which stretches for a distance of 298 kilometers at the western end of the Wabigoon Subprovince of the Superior Province of the Canadian Shield. Rocks within the Wabigoon Subprovince show a pronounced northeast alignment and are confined to two broad lithologic zones now separated by a large area underlain by granite rocks.

Within the immediate areas of Laval Township, the oldest rocks consist of steeply inclined and apparently conformable intercalated volcanic flows and sediments. A variety of intrusive rocks occur within the volcanics as narrow sills or dykes or small to large bosses and occasionally contain xenoliths of volcanic material.

GEOLOGY OF THE PROPERTY

General Statement

The property consists of a number of steep-sided, northeasterly trending rock ridges, separated by narrow swampy areas underlain by varved clays and sandy glacial deposits. Outcrop is approximately 60% to 70% in most areas.

An interbedded series of mafic and felsic volcanics strike across the property in a northeasterly direction, dip vertically to 25° to the southeast, and young in the same direction (Map 1). The volcanics are overlain by sediments in the extreme southeastern part of the property. A small biotite granite stock (the Gardner Lake Stock) intrudes the north-central part of the claims and adjacent volcanics tend to be warped and wrapped around the intrusion. Numerous northeasterly striking quartz porphyry, quartz feldspar porphyry, feldspar porphyry and trondhjemite dykes intrude the volcanics. The volcanics are of greenschist facies metamorphism, except close to the Gardner Lake Stock where hornfels is common.

No petrographic work has been done to date, therefore rock names are based on field identification.

Lithology

Mafic volcanics (1) are the most predominant rock type on the property. These are mainly massive, aphanitic (1a) or gabbroic-textured (1b) flows with a poor to moderate fabric and are usually magnetite rich. Occasional feldspar porphyritic flows (1c, 1m) contain angular, irregular feldspar crystals up to four centimeters in diameter and are good marker horizons.

Pillowed flows (1j) with associated pillow breccia (1k), and flow-top breccias (1h) are rarer. These may be feldspar porphyritic (1m) or weakly variolitic and tend to have strong fabrics with pillow elongation of up to 20:1.

Fragmental mafic rocks are best developed in the northern part of the property and are comprised mainly of ash tuffs (1d) with lesser amounts of lapilli tuff (1e), tuff breccia (1f) and agglomerate (1g).

Felsic volcanics (2) are sporadically interbedded throughout the property and consist mainly of fine to medium grained, light grey ash tuffs (2e) and lapilli tuffs (2f) with minor tuff breccia (2g). Rare massive, fine grained flows (2a) and porphyritic

flows (2b, 2c, 2d) occur in the eastern part of the area. A distinctive spherulitic flow (2h) was seen west of Troutfly Lake on line 20+00W and consists of a fine grained grey matrix containing variable quantities of rounded, often hollow spherulites up to two centimeters in diameter.

Chemical sediments are represented by a banded, dark to light grey chert unit (3a) at 18+00W/3+20S. This unit is at least 2.44 meters wide and is associated with massive, bedded pyrite and pyrrhotite exposed in a trench thirty meters west.

Poorly graded, medium grained, brown-coloured greywackes (4a) overlie the volcanics in the southeastern part of the claims, and contain thin dark chloritic argillite units (4b).

Mafic intrusives are mainly medium to coarse grained magnetite-rich gabbro (5b), possibly related to the gabbroic mafic flows. Narrow diabase dykes (5a) are common.

A wide variety of felsic intrusives (6) are present on the property, ranging from coarse, biotite granite (6d) of the Gardner Lake Stock to thin aplite dykes of similar age (6f).

Numerous "granodiorite" (6a) and porphyry dykes (6b, 6c, 6g) occur throughout the property and have importance as potential hosts of gold mineralization. The dykes may be traceable over long distances or may form swarms or short en-echelon lenses. Strikes are usually 040° to 050° and dips to the south at 040° to 070°.

The "granodiorite" is probably a trondhjemite similar to that at the Goldlund Mine, however this has not been determined analytically. The rock is light to dark grey, medium grained with coarse feldspar clasts and forms dykes up to 25 meters thick. Porphyry dykes were rarely observed to reach this thickness, but tend to form swarms. The rock is white to brown-weathering, medium grained and contains variable quantities of quartz, quartz and feldspar or feldspar phenocrysts, usually two to five millimeters in diameter but occasionally exceeding one centimeter. The significance of these dykes will be discussed later in this report.

Stratigraphy and Structure

A stratigraphic top direction to the southeast is indicated by pillowed flows in the northwestern part of the property. This is substantiated by the general sequence in the southeastern part of the property that progresses from mafic volcanics through felsic volcanics, exhalite chert to clastic sediments.

Structurally, the area is dominated by a strong F_1 fabric at about 045° that appears parallel or sub-parallel to original bedding. Intense shearing can be observed to the south of the Troutfly Lake following the F_1 direction.

A second, poorly developed cleavage (F_2) at 075° has been observed in some outcrops.

No major folding was observed, however minor outcrop-scale folds and crenulations have axes close to the F_1 direction. Interpretation of geophysical surveys indicates possible faults on the property trending 150° , however no geological evidence was obtained to substantiate this.

MINERALIZATION, ALTERATION AND GEOCHEMICAL SAMPLING

In total, 108 samples were collected (Map 2). All were analysed for gold, silver and tungsten and eight were also analysed for copper and zinc (Appendix B).

Analyses were performed by Bondar-Clegg and Company Ltd., Ottawa as per the specifications in Appendix B.

Six potential targets for gold \pm base metal mineralization were recognized, mapped and sampled.

Exhalative Horizon in the Eastern Part of the Property

The chert and massive pyrite/pyrrhotite horizon located at 18+00W/3+20S was drilled by Eclund Mines Ltd. in 1951 as a base metal target. Results are said to be negative. A large outcrop of banded recrystallized chert 2.44 meters thick was

stripped by BCL and sampled together with the wallrock. The pyrite and pyrrhotite horizon exposed in an adjacent trench were also sampled. All samples ran less than 5 ppb gold. Silver values were elevated, reaching 3.6 ppm in one sample.

Pyritic Felsic Tuffs

A pyritic felsic tuff in the northwestern part of the property was sampled. The highest gold value was 5 ppb, silver 0.2 ppm, and tungsten 0 ppm. Base metal values were elevated, running 100 ppm zinc and 95 ppm copper. A similar pyrite-bearing felsic tuff at 18+00W/2+20S returned low values of all metals.

Shear-Hosted Quartz Veins

Several old, unreported trenches were located on a small island in the south bay of Troutfly Lake (Line 18+00W). A highly carbonatized shear zone approximately thirty meters wide strikes at 155° and contains quartz-carbonate veins and stringers with moderate coarse pyrite. A second quartz vein system branches from the shear at approximately 360°. The highest values from six grab samples of the vein and shear material was 5 ppb gold and 0.9 ppm silver. Tungsten appeared elevated in the shear with a high of 16 ppm.

Sweat Veins in Sediments

The highest gold values on the property were obtained from very narrow, foliation-parallel "sweat" veins in the sediments at 4+00W/2+00N (190 and 95 ppb gold).

"Granodiorite Dykes"

Two major "granodiorite" (trondhjemite) dykes are located west of Troutfly Lake. Both dykes are strongly carbonatized, locally silicified, and contain disseminated pyrite and minor chalcopyrite. Cross-cutting quartz stringers and narrow veins contain minor pyrite and pyrrhotite and occasional coarse crystals of galena, sphalerite and tourmaline. This veining is well developed at 19+50W/8+00N.

Nine grab samples of the better altered and mineralized material were taken over a wide area. A sample from 30+00W/3+75N returned the highest values: 10 ppb gold and 86.5 ppm silver. The high silver value is due to galena in vein material. All other samples ran less than 5 ppb gold.

Porphyry Dykes

A large number of porphyry dykes cross the property and are, almost without exception, carbonatized, pyritized and contain quartz, quartz-carbonate and/or quartz tourmaline veins. Veining and alteration are strongest in the vicinity of Troutfly Lake and tend to die out towards the west, although the intensity may vary along any particular dyke.

The veins tend to cross-cut dykes approximately 025° and 160° , but may be stringer-type in multiple directions.

At least three ages of veining are apparent: an early set of quartz veins generally sub-parallel to foliation or cross-cutting at high angles; quartz tourmaline veins; and later quartz-carbonate-sulphide veins. Sulphides occur in the altered dykes as heavy disseminations.

Seventy six samples were taken from various dykes and wall-rocks. Most dykes, although well altered and veined, ran trace to low values of gold, silver and tungsten. Four dykes had anomalous metal values:

- (1) At 28+00W/16+50N a one meter wide dyke ran 55 ppb gold, 0.2 ppm silver, and 2 ppm tungsten.
- (2) A dyke traced from 32+00W/0+50N to 18+00W/3+75N may be twenty meters wide and is the most altered dyke observed. Erratic values ran up to 50 ppb gold, 3.7 ppm silver, and 900 ppm tungsten.
- (3) One sample from a swarm of narrow dykes ran 36 ppm tungsten.
- (4) A narrow dyke at 21+70W/3+00S ran 700 ppm tungsten.

THE CALDER-BOUSQUET SHOWING

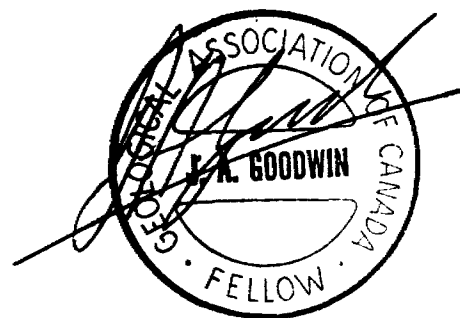
No data indicating the location of the Calder-Bousquet Showing is available. As the showing was apparently drilled immediately after a geological survey, it would seem probable that the target was a surface showing. It was hoped, therefore, to pinpoint the showing by sampling of outcrops and locating drill collars, drill sites, old core or trenches, etc.

No gold values sufficiently high to have warranted a drill program were obtained, and no evidence of surface work, except for trenching on the Troutfly Lake Island and a small "pop-blast" pit at 18+20W/3+75N, was seen. The evidence may have been destroyed during logging in the Troutfly Lake area.

It is concluded that, unless further data indicating the position of the showing should come to light, the Calder-Bousquet Showing is not locatable by prospecting or sampling of the dykes. Soil geochemistry is not thought to be applicable due to the clay/sand overburden and no significant geophysical anomaly was located associated with dykes.

CONCLUSIONS AND RECOMMENDATIONS

Geological mapping located a number of promising targets for gold mineralization including well altered and veined "granodiorite" (trondhjemite) and quartz feldspar porphyry dykes. Sampling has indicated only sporadic and poorly anomalous values of gold, silver or tungsten. The Calder-Bousquet Showing was not located. No further work is recommended.



REFERENCES

- Bourne, D.A. (1983): Report on Troutfly Lake Property, Laval Township, Kenora Mining Division, Ontario for Aphrodite Gold Explorations Ltd.
- Gair, A.T.F. (1984): Report on the Troutfly Lake Property, for Mistango Consolidated Resources Ltd. June, 1984.
- Lowe, J.H. (1951): Geology of the Property of Calder-Bousquet Gold Mines Limited, Laval Township, Ontario.
- Shein, V.M. (1984): Report on Calder-Bousquet Gold Property, Laval Township, Kenora Mining Division Northwestern Ontario for Mistango Consolidated Resources Limited. A.C.A. Howe International Ltd. Report No. 492.

APPENDIX A
Technical Information

APPENDIX B

Analysis Results

Bondar-Clegg & Company Ltd.
 764 Belfast Road
 Ottawa, Ontario
 Canada K1S 1S5
 Phone: (613) 737-3110
 Telex: 053-4455



Geochemical
 Lab Report

REPORT: 013-1455 (COMPLETE)

REFERENCE INFO: P.O.# 1945

CLIENT: BILLITON CANADA LIMITED
 PROJECT: NONE

SUBMITTED BY: BILLITON
 DATE PRINTED: 21-JUN-85

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu Copper	2	1 PPM	HCl-HNO ₃ , (1:3)	Atomic Absorption
2	Zn Zinc	2	1 PPM	HCl-HNO ₃ , (1:3)	Atomic Absorption
3	Ag Silver	9	0.1 PPM	HCl-HNO ₃ , (1:3)	Atomic Absorption
4	W Tungsten	7	2 PPM	CARBONATE SINTER	Colourimetric
5	Au Gold	9	5 PPB	AQUA REGIA	FA-AA @ 50 gm weight

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	9	-200	9	CRUSH, PULVERIZE	-200 9

REMARKS: < MEANS LESS THAN

REPORT COPIES TO: 141 ADELAIDE STREET WEST

INVOICE TO: 141 ADELAIDE STREET WEST

WM



REPORT: 015-1303

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	H PPM	Au PPB
2701		0.5	<2	190
2702		0.3	2	95
2703		0.2	2	20
2704		0.1	2	5
2705		<0.1	4	15
2706		<0.1	2	10
2707		<0.1	<2	<5
2708		<0.1	<2	<5
4501		86.5	<2	10
4502		0.3	2	<5
4503		0.5	2	<5
4504		0.3	<2	<5
4505		0.4	2	<5
4506		<0.1	6	<5
4507		0.4	2	<5
4508		0.4	2	<5
4509		<0.1	8	<5
4510		<0.1	<2	<5
4511		<0.1	2	<5
4512		0.4	4	<5
4513		<0.1	500	<5
4514		<0.1	8	<5
4515		<0.1	4	<5
4516		0.5	2	<5
4517		0.5	2	<5
4518		<0.1	2	<5



REPORT: 015-1411

PROJECT: NONE

PAGE 1

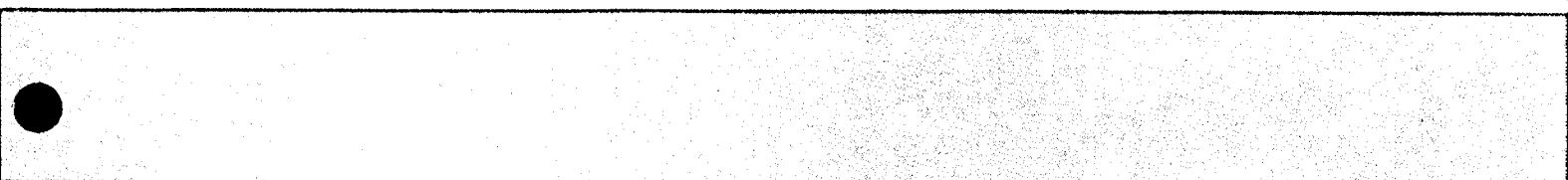
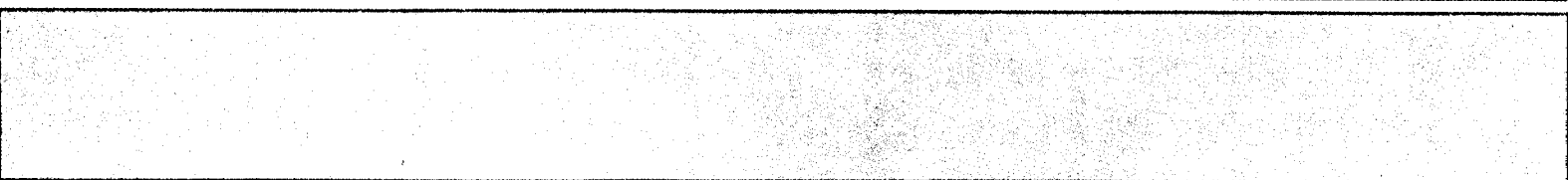
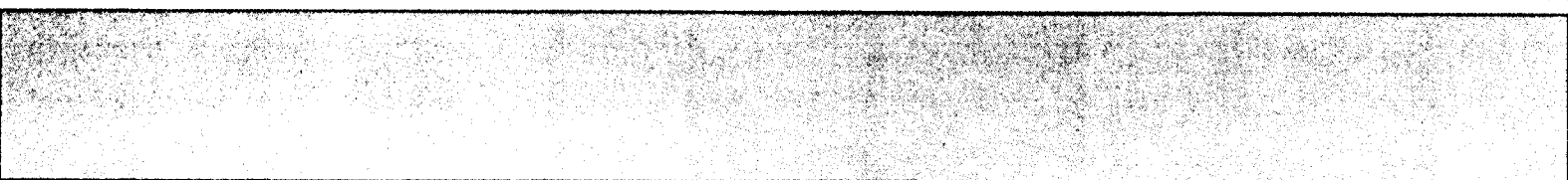
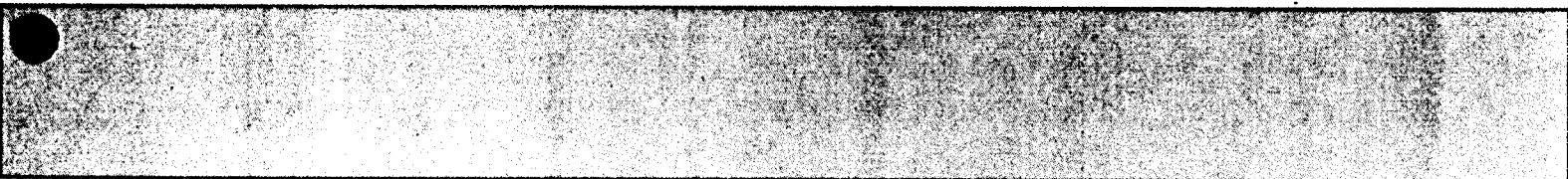
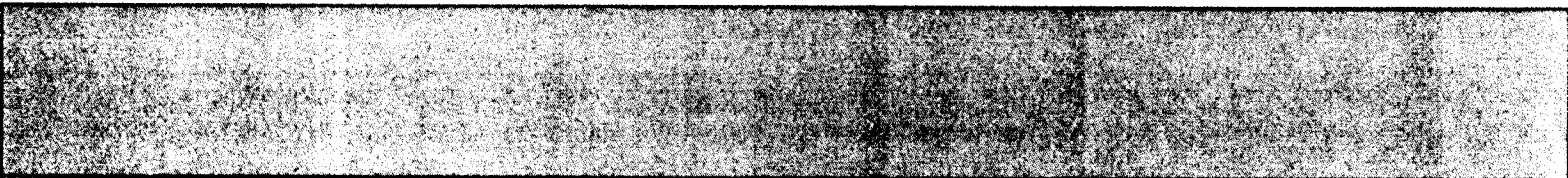
SAMPLE NUMBER	ELEMENT UNITS	Li PPM	Be PPM	Nb PPM	Ta PPM	Cu PPM	Zn PPM	Ag PPM	Hg PPM	Au PPB
2711		42	6	32	8					
2718						4	12	<0.1		<5
2717						27	31	0.1		<5
2716								0.4	<2	<5
2719								<0.1	700	<5
2720								<0.1	6	<5
2721								<0.1	2	<5
2722								<0.1	36	<5
2723						117	1445	0.3		<5
2724						10	158	<0.1		<5
2725						39	70	<0.1		<5
2726						95	100	0.2		5
2727						38	34	0.1		5
2801								<0.1	2	<5
2802								<0.1	16	<5
2803								<0.1	2	<5
2804								<0.1	4	<5
2805								<0.1	8	<5
2806								0.2	2	55
2807								<0.1	2	<5
2808								<0.1	2	<5
2809								0.1	<2	<5
2810								<0.1	<2	<5
2811								0.1	<2	<5
2812								0.1	<2	<5
2813								0.1	4	<5
2814								0.1	4	<5
2815								<0.1	<2	<5
2816								<0.1	<2	<5
2817								0.1	6	<5
2818								0.1	<2	<5
2819								0.1	<2	<5
2820								1.0	<2	<5
4528								1.9	<2	<5
4529								1.8	<2	20
4530								5.7	2	5
4531								1.9	<2	<5
4532								0.5	4	<5
4533								0.1	4	<5
4534								<0.1	<2	<5



REPORT: 015-1455

PROJECT: NONE PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPM	H PPM	Au PPB
2728				0.1	<2	<5
2729				<0.1	<2	<5
2730				<0.1	<2	<5
2821				<0.1	<2	<5
2822				<0.1	<2	<5
2823				<0.1	<2	<5
2824				<0.1	<2	<5
4540		34	35	<0.1		5
4541		15	62	0.1		5



APPENDIX C

Analysis Costs: Supporting Data

BILLITON CANADA LTD.



THE TORONTO-DOMINION BANK
YORK ST. & 141 ADELAIDE ST. W.
TORONTO, ONTARIO M5H 2L5

01-6183

NUMBER 1
CURRENT ACCOUNT

DATE July 12 19

PAY THE SUM OF Two hundred and seventy five ⁰⁰/₁₀₀ DOLLARS \$ 275.00

TO Londer-Clegg
THE 5420 Canotek Road
ORDER Ottawa, Ontario
OF K1V 6T5

BILLITON CANADA LTD.

NON NEGOTIABLE

AUTHORIZED SIGNATURE

DESCRIPTION

AMOUNT

BILLITON CANADA LTD.

ACCOUNTS PAID	
GOODS	QTY.
CHEQUE BROKED	QTY.
	PRICE
<i>JH</i>	
968-06-02	
APR	J
CHEQUE No.	

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

BILLITON CANADA LIMITED
 141 ADELAIDE STREET WEST
 SUITE 1006
 TORONTO, ONTARIO
 M5H 3L9

Invoice : 111998, Page 1
 Date : 28-JUN-85
 Report No: 015-1557
 Project : NONE
 Reference: P.O.# 1946

14 Analyses of Silver	at \$ 2.00	\$ 28.00		
Subtotal		\$ 28.00	\$	28.00
14 Analyses of Gold	at \$ 8.00	\$ 112.00		
Subtotal		\$ 112.00	\$	112.00
14 Analyses of Tungsten	at \$ 4.75	\$ 66.50		
Subtotal		\$ 66.50	\$	66.50
Sample Preparation				
14 Samples of CRUSH, PULVERIZE -200	at \$ 3.25	\$ 45.50		
Subtotal		\$ 45.50	\$	45.50
Invoice Total:			\$	252.00 Cdn

RECEIVED
 JUL 5 1985

ACCOUNTS PAYABLE:	
GOODS REC'D.	QTY.
ORDER CHECKED	QTY.
	PRICE
ISSUES ACCURACY / (CERTIFIED) INITIAL <i>LR</i>	
COCHIS <i>98 (660)</i>	
APPROVED FOR PAY <i>DPJ</i>	
CHECK NO.	

**THIS IS A PROFESSIONAL SERVICE
 ACCOUNTS DUE WHEN RENDERED**

BILLITON CANADA LIMITED
 C/O CEDAR MOTEL
 P.O. BOX 843,
 DRYDEN, ONTARIO.
 P8N 2Z5

Invoice : 111798, Page 1



Date : 17-JUN-85

Report No: 415-1304

Project : NONE

Reference: ~~7-6-85-3~~

1 Analyses of Silver - Assay	at \$ 7.50	\$ 7.50		
1 Analyses of Tungsten - Assay	at \$10.50	\$ 10.50		
Subtotal		\$ 18.00	\$	18.00
Sample Preparation				
2 Samples of PULVERIZING	at \$ 2.50	\$ 5.00		
Subtotal		\$ 5.00	\$	5.00
Invoice Total:			\$	23.00 Cdn

ACCOUNTS	
PAID	
DESCRIPTION	QTY.
AMOUNT	QTY.
DATE	PRICE
 968-06-02	
	
CHECK No.	

BILLITON CANADA LTD.

THE TORONTO-DOMINION BANK
YORK ST. & 141 ADELAIDE ST. W.
TORONTO, ONTARIO. M5H 3L5

01-6109

NUMBER 3
CURRENT ACCOUNT

DATE June 14, 1965

BY THE
SUM OF

Seven hundred and thirty-eight

100 DOLLARS \$ 738.00

TO
THE
ORDER
OF

Sensar - Clegg and Co. Ltd.,
3425 Canotek Road,
OTTAWA, Ontario
K1J 5K5

BILLITON CANADA LTD.

NON NEGOTIABLE

AUTHORIZED SIGNATURES

DESCRIPTION

AMOUNT

20 samples of CRUSH PULVERIZE -200

DESCRIPTION	AMOUNT
20 samples of CRUSH PULVERIZE -200 at \$ 3.25	\$ 84.50
Subtotal	\$ 84.50
Invoice Total:	\$ 468.00 Cdn

ACCO: PAYA:
GC: P:
<p>Cap. Perst.</p> <p>968-06-02</p>
CHECK NO.:

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

BONDAR-CLEGG

BILLITON CANADA LIMITED
 C/O CEDAR MOTEL
 P.O. BOX 843,
 DRYDEN, ONTARIO.
 P8N 2Z5

Invoice : 111700, Page 1

Date : 7-JUN-85

Report No: 015-1303

Project : NONE

Reference: P.O.#1942

26 Analyses of Silver	at \$ 2.00	\$ 52.00	
Subtotal		\$ 52.00	\$ 52.00
26 Analyses of Gold	at \$ 8.00	\$ 208.00	
Subtotal		\$ 208.00	\$ 208.00
26 Analyses of Tungsten	at \$ 4.75	\$ 123.50	
Subtotal		\$ 123.50	\$ 123.50
Sample Preparation			
26 Samples of CRUSH, PULVERIZE -200	at \$ 3.25	\$ 84.50	
Subtotal		\$ 84.50	\$ 84.50
Invoice Total:			\$ 468.00 Cdn

ACCD
PAYA
GO
07
<i>Co.</i>
<i>Perst.</i>
<i>968-06-02</i>
CHEQUE

THIS IS A PROFESSIONAL SERVICE
 ACCOUNTS DUE WHEN RENDERED

BILLITON CANADA LIMITED
 C/O CEDAR MOTEL
 P.O. BOX 843,
 DRYDEN, ONTARIO.
 P8N 2Z5

Invoice : 111725, Page 1
 Date : 11-JUN-85
 Report No: 015-1304
 Project : NONE
 Reference: P.O.# 1943

15 Analyses of Silver	at \$ 2.00	\$ 30.00		
Subtotal		\$ 30.00	\$	30.00
15 Analyses of Gold	at \$ 8.00	\$ 120.00		
Subtotal		\$ 120.00	\$	120.00
15 Analyses of Tungsten	at \$ 4.75	\$ 71.25		
Subtotal		\$ 71.25	\$	71.25
Sample Preparation				
15 Samples of CRUSH, PULVERIZE -200	at \$ 3.25	\$ 48.75		
Subtotal		\$ 48.75	\$	48.75
Invoice Total:			\$	270.00 Cdn

RECEIVED

JUN 17 1985

OK. For Payment JAG

ANALYSED	QTY.
RECORDED	QTY.
	PRICE
ANALYST'S ACCURACY	
INITIALS <i>JAG</i>	
SERIAL <i>9650602</i>	
APPROVED FOR PAY <i>JR</i>	
RECEIVED	

BILLITON CANADA LTD.



THE TORONTO-DOMINION BANK
YORK ST. & 141 ADELAIDE ST. W.
TORONTO, ONTARIO M5H 3L5

01-6141

NUMBER 1
CURRENT ACCOUNT

DATE July 2 19 85

PAY THE SUM OF Nine hundred and forty two ~~00/100~~ DOLLARS \$ 942.00

TO Bondar-Clegg & Company Ltd.
THE 3420 Carotek Road
ORDER Ottawa, Ontario
OF R1J 8Y5

BILLITON CANADA LTD.

NON NEGOTIABLE

AUTHORIZED SIGNATURE

DESCRIPTION

AMOUNT

7 Samples of CRUSH, PULVERIZE -200
Subtotal

0150.00
700.00

BILLITON CANADA LTD.

7 Samples of CRUSH, PULVERIZE -200 at \$ 3.25 \$ 29.25
Subtotal \$ 29.25 \$ 29.25
Invoice Total 156.50 Cdn

INVOICE TO BE PAID
+ I.P.O.

TO CAROL PLEASE
[Signature]

~~As per attached~~
~~invoice~~ The
invoice indicates
P.O. 1943 - however
I have this P.O.
number marked
complete - Can you
shed some light?



BILLITON CANADA LIMITED
 141 ADELAIDE STREET WEST
 SUITE 1006
 TORONTO, ONTARIO
 M5H 3L9

Invoice : 111859, Page 1
 Date : 21-JUN-85
 Report No: 015-1455
 Project : NONE
 Reference: P.O.# 1945

9 Analyses of Silver	at \$ 2.00	\$ 18.00		
2 Analyses of Copper	at \$ 1.00	\$ 2.00		
2 Analyses of Zinc	at \$ 1.00	\$ 2.00		
Subtotal		\$ 22.00	\$	22.00
9 Analyses of Gold	at \$ 8.00	\$ 72.00		
Subtotal		\$ 72.00	\$	72.00
7 Analyses of Tungsten	at \$ 4.75	\$ 33.25		
Subtotal		\$ 33.25	\$	33.25
Sample Preparation				
2 Samples of CRUSH, PULVERIZE -200	at \$ 3.25	\$ 29.25		
Subtotal		\$ 29.25	\$	29.25

Invoice Total: \$ 156.50 Cdn

ACCOUNTS PAID NO.	3600900
QTY. ORDERED	QTY.
PRICE	
MATHS ACCURACY	
CHECKS	918 06 02
APPROVED FOR PAY	
CHEQUE No.	

THIS IS A PROFESSIONAL SERVICE
 ACCOUNTS DUE WHEN RENDERED



BONDAR-CLEGG

JUN 24 1985

BILLITON CANADA LIMITED
141 ADELAIDE STREET WEST
SUITE 1006
TORONTO, ONTARIO
M5H 3L9

Invoice : 111880, Page 1

Date : 21-JUN-85

Report No: 015-1411

Project : NONE

Reference: P.O. # 1944

44 Analyses of Silver	at \$ 2.00 \$	88.00	
7 Analyses of Copper	at \$ 1.00 \$	7.00	
7 Analyses of Zinc	at \$ 1.00 \$	7.00	
Subtotal		\$ 102.00	\$ 102.00
1 Analyses of Beryllium	at \$ 9.50 \$	9.50	
1 Analyses of Lithium	at \$ 0.00 \$	0.00	
1 Analyses of Niobium	at \$ 0.00 \$	0.00	
1 Analyses of Tantalum	at \$ 0.00 \$	0.00	
Subtotal		\$ 9.50	\$ 9.50
44 Analyses of Gold	at \$ 8.00 \$	352.00	
Subtotal		\$ 352.00	\$ 352.00
37 Analyses of Tungsten	at \$ 4.75 \$	175.75	
Subtotal		\$ 175.75	\$ 175.75
Sample Preparation			
45 Samples of CRUSH, PULVERIZE -200	at \$ 3.25 \$	146.25	
Subtotal		\$ 146.25	\$ 146.25

Invoice Total:

\$ 785.50 Cdn

ACCOUNTS PAYABLE: 3600900	
GOODS REC'D.	QTY.
ORDER CHECKED	QTY.
	PRICE
MATH ACCURACY	
CERTIFIED INITIAL	
CODING <i>JAG</i>	
<i>762 06 02</i>	
APPROVED FOR PAY	
CHEQUE No.	

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED



Ontario

Ministry

GEOPHYSICAL - G
TECHNICAL



52F16SW0031 2.8677 LAVAL

900

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) Geology

Township or Area Laval Township

Claim Holder(s) Billiton Canada Ltd., 1006-141 Adelaide
St. W., Toronto, Ontario

Survey Company As Above

Author of Report J.A. Goodwin

Address of Author As Above

Covering Dates of Survey Dec. 1984 - 12-11-85
(linecutting to office)

Total Miles of Line Cut 85 km

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

As Per List Attached

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim.

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical

-Electromagnetic _____

-Magnetometer _____

-Radiometric _____

-Other _____

Geological 40

Geochemical _____

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

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

DATE: 18-11-85 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications [Signature]

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 92

If space insufficient, attach list

OFFICE USE ONLY

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 _____

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

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 _____

**INDUCED POLARIZATION
RESISTIVITY**

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 _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken As Listed

Total Number of Samples 108

Type of Sample Rock
(Nature of Material)

Average Sample Weight 2 lbs

Method of Collection Grab

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis -200

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

(Cu) Pb, (Zn) Ni, Co, (Ag) Mo, As, -(circle)

Others Au, W

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (108 tests)

Name of Laboratory Bondar Clegg & Co. Ltd.

Extraction Method As per attached

Analytical Method As per attached

Reagents Used As per attached

General _____

TROUTFLY LAKE CLAIMS

List of Claim Numbers

K 639047	K 639070	K 639098	K 639121
K 639048	K 639071	K 639099	K 639122
K 639049	K 639072	K 639100	K 639123
K 639050	K 639073	K 639101	K 645073
K 639051	K 639074	K 639102	K 645074
K 639052	K 639075	K 639103	K 645075
K 639053	K 639076	K 639104	K 645076
K 639054	K 639077	K 639105	K 645077
K 639055	K 639078	K 639106	K 645078
K 639056	K 639079	K 639107	K 645079
K 639057	K 639080	K 639108	K 645080
K 639058	K 639081	K 639109	K 645081
K 639059	K 639087	K 639110	K 645082
K 639060	K 639088	K 639111	K 645083
K 639061	K 639089	K 639112	K 645084
K 639062	K 639090	K 639113	K 645104
K 639063	K 639091	K 639114	K 645105
K 639064	K 639092	K 639115	K 645106
K 639065	K 639093	K 639116	K 645107
K 639066	K 639094	K 639117	K 645108
K 639067	K 639095	K 639118	K 645109
K 639068	K 639096	K 639119	K 645110
K 639069	K 639097	K 639120	K 645111

Mining Lands Section

File No 2.8677

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

* Line spacing = 200 metres!

<LAVAL>

L. D.

Lgd

Derrick

Signature of Assessor

Dec. 9/85

Date

1986 01 10

Your File: 223-85
Our File: 2.8677

Mining Recorder
Ministry of Northern Development and Mines
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Notice of Intent dated December 18, 1985
Geological Survey and Data for Assaying
on Mining Claims K 639047, et al, in
Laval Township

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

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

DK/mc

cc: Billiton Canada Ltd
Suite 1006
141 Adelaide Street West
Toronto, Ontario
M5H 3L9

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

Mr. J.A. Goodwin
Billiton Canada Ltd
Suite 1006
141 Adelaide Street
Toronto, Ontario
M5H 3L9

Resident Geologist
Kenora, Ontario

Encl.



Recorded Holder
BILLITON CANADA LIMITED.

Township or Area
LAVAL TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>31</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	K.-639047 to 72 incl. 639075 to 77 incl. 639080 - 81 639087 to 123 incl. 645073 to 84 incl. 645104 to 111 incl.

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

[Empty box for special credits]

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

K.-639073-74
639078-79

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.



Recorded Holder BILLITON CANADA LIMITED
Township or Area LAVAL TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed																		
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	\$1955.00 SPENT ON ANALYSES OF SAMPLES TAKEN FROM MINING CLAIMS: <table> <tr> <td>K.-639050</td> <td>639108</td> </tr> <tr> <td>639052</td> <td>639110</td> </tr> <tr> <td>639055</td> <td>639113 to 16 incl.</td> </tr> <tr> <td>639059-60</td> <td>639118</td> </tr> <tr> <td>639065</td> <td>645073 to 81 incl.</td> </tr> <tr> <td>639089-90</td> <td>645083-84</td> </tr> <tr> <td>639095</td> <td>645104 to 07 incl.</td> </tr> <tr> <td>639098</td> <td>645109</td> </tr> <tr> <td>639102 to 105 incl.</td> <td>639100</td> </tr> </table> 130 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76 (6) OF THE MINING ACT.	K.-639050	639108	639052	639110	639055	639113 to 16 incl.	639059-60	639118	639065	645073 to 81 incl.	639089-90	645083-84	639095	645104 to 07 incl.	639098	645109	639102 to 105 incl.	639100
K.-639050	639108																		
639052	639110																		
639055	639113 to 16 incl.																		
639059-60	639118																		
639065	645073 to 81 incl.																		
639089-90	645083-84																		
639095	645104 to 07 incl.																		
639098	645109																		
639102 to 105 incl.	639100																		

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.



Jan 2, 1986

1985 12 18

Your File: 223-85
Our File: 2.8677


Mining Recorder
Ministry of Northern Development and Mines
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

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

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

Yours sincerely,


S.E. Yundt
Director
Land Management Branch

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

Encls.

LS&DK:bc

cc: Billiton Canada Ltd.
1006-141 Adelaide Street West,
Toronto, Ont. M5H 3L9

Mr. G. H. Ferguson
Mining & Lands Commission

cc: Mr. J. A. Goodwin
Billiton Canada Ltd.
1006-141 Adelaide Street,
Toronto, Ont. M5H 3L9



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports

1985 12 18

2.8677/223-85

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

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

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

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



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

R.P.
28677
Mining Act

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

Jan 16
#229-85

Type of Survey(s) GEOLOGICAL	Township or Area LAVAL TWP. M-3370
Claim Holder(s) BILLITON CANADA LTD.	Prospector's Licence No. T.1535
Address 1006-141 ADELAIDE STREET WEST, TORONTO, ONTARIO M5H 3L9	
Survey Company AS ABOVE	Date of Survey (from & to) 26 05 85 19 06 85 Day Mo. Yr. Day Mo. Yr.
Name and Address of Author (of Geo Technical report) J.A. GOODWIN, ADDRESS AS ABOVE	
Total Miles of line Cut 85 km	

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	40
	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 Prefix	Mining Claim Number	Expend. Days Cr.
	AS PER	
	ATTACHED	
	LIST	
	GEOLOGICAL CREDITS	
	TO BE APPLIED	
	EVENLY OVER	
	ENTIRE 92 CLAIMS	
	EXPENDITURE DAYS	
	CREDITS TO BE	
	APPLIED AS FOLLOWS:	
	K645073	6.5
	K645074	6.5
	K645075	6.5
	K645076	6.5
	K645077	6.5
	K645078	6.5
	K645079	6.5
	K645080	6.5
	K645081	6.5
	K645082	6.5
	K645083	6.5
	K645084	6.5

RECEIVED

DEC 04 1985

MINING LANDS SECTION

POST-MARKED

See original with statement

NOV 21/85

Expenditures (excludes power stripping)

Type of Work Performed ANALYSES
Performed on Claim(s) AS LISTED
Calculation of Expenditure Days Credits
Total Expenditures \$ 1,955.00 ÷ 15 = Total Days Credits 130

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 19.11.85	Recorded (Holder or Agent Signature)
-------------------------	--------------------------------------

For Office Use Only	
Total Days Credits Recorded 3810	Mining Record Nov 26/85
Date Approved as Recorded	Director

Certification Verifying Report of Work

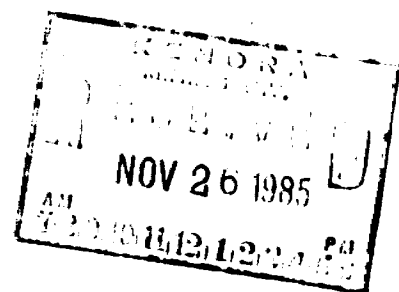
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying J.A. Goodwin, Billiton Canada Ltd., 1006, 141 Adelaide Street West, Toronto, Ont. M5H 3L9
Date Certified 19.11.85
Certified by (Signature)

223-85

TROUTFLY LAKE CLAIMS
List of Claim Numbers

K 639047	K 639070	K 639098	K 639121
K 639048	K 639071	K 639099	K 639122
K 639049	K 639072	K 639100	K 639123
K 639050	K 639073	K 639101	K 645073
K 639051	K 639074	K 639102	K 645074
K 639052	K 639075	K 639103	K 645075
K 639053	K 639076	K 639104	K 645076
K 639054	K 639077	K 639105	K 645077
K 639055	K 639078	K 639106	K 645078
K 639056	K 639079	K 639107	K 645079
K 639057	K 639080	K 639108	K 645080
K 639058	K 639081	K 639109	K 645081
K 639059	K 639087	K 639110	K 645082
K 639060	K 639088	K 639111	K 645083
K 639061	K 639089	K 639112	K 645084
K 639062	K 639090	K 639113	K 645104
K 639063	K 639091	K 639114	K 645105
K 639064	K 639092	K 639115	K 645106
K 639065	K 639093	K 639116	K 645107
K 639066	K 639094	K 639117	K 645108
K 639067	K 639095	K 639118	K 645109
K 639068	K 639096	K 639119	K 645110
K 639069	K 639097	K 639120	K 645111



639047

Billiton Metals Canada Inc.

Suite 1006
141 Adelaide Street West
Toronto, Ontario M5H 3L9

Telephone (416) 362-6624
Telex 06-23519

RECEIVED	
LAND MANAGEMENT BRANCH	
NOV 28 '85	
PREPARE REPLY	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
S. E. YUNDT	
J. R. MORTON	
J. C. SMITH	
W. P. BROOK	
M. J. HOBAN	
D. W. SCOTT	
S. KEEN	
Return To: R.6643	


November 27, 1985

The Director
Land Management Branch
Whitney Block, Room 6643
Queens Park
Toronto ON
M7A 1W3

Dear Sir:

Please find enclosed two (2) copies of the assessment report on the Troutfly Lake Property, District of Kenora Ont.

Yours sincerely,


J.A. Goodwin
Senior Geologist

JAG:ei
Enc.

RECEIVED
NOV 28 1985
MINING LANDS SECTION

Geological

W. H. ... # 223-85

TROUTFLY LAKE CLAIMS

List of Claim Numbers

K 639047 $\frac{1}{4}$	K 639070 $\frac{1}{4}$	K 639098 $\frac{1}{2}$	K 639121 $\frac{1}{4}$
K 639048 $\frac{1}{4}$	K 639071 $\frac{1}{4}$	K 639099 $\frac{1}{4}$	✓ K 639122 $\frac{1}{4}$
K 639049 $>\frac{1}{4}$	K 639072 $\frac{1}{2}$	K 639100 $\frac{1}{4}$	K 639123 $\frac{1}{4}$
K 639050 $>\frac{1}{4}$	K 639073 0	K 639101 $\frac{1}{4}$	K 645073 $\frac{1}{4}$
K 639051 $\frac{1}{4}$	K 639074 0	K 639102 $\frac{1}{2}$	K 645074 $\frac{1}{4}$
K 639052 $\frac{1}{4}$	K 639075 $\frac{3}{4}$	K 639103 $\frac{1}{4}$	K 645075 $\frac{1}{4}$
K 639053 $\frac{1}{4}$	K 639076 $\frac{1}{2}$	K 639104 $\frac{1}{4}$	K 645076 $\frac{1}{4}$
K 639054 $\frac{1}{4}$	K 639077 $\frac{3}{4}$	K 639105 $\frac{1}{4}$	K 645077 ✓
K 639055 $\frac{1}{4}$	K 639078 0	K 639106 $\frac{1}{4}$	K 645078 $\frac{1}{4}$
K 639056 $\frac{1}{4}$	K 639079 0	K 639107 $>\frac{1}{4}$	K 645079 $\frac{1}{4}$
K 639057 $\frac{1}{4}$	K 639080 $\frac{3}{4}$	K 639108 $>\frac{1}{4}$	K 645080 $\frac{1}{4}$
K 639058 $\frac{1}{4}$	→ K 639081 $\frac{1}{2}$	K 639109 $>\frac{1}{4}$	K 645081 $\frac{1}{4}$
K 639059 $<\frac{1}{2}$? K 639087 $\frac{1}{4}$	K 639110 $\frac{1}{4}$	K 645082 $\frac{1}{4}$
K 639060 $\frac{1}{2}$	K 639088 $\frac{1}{4}$	K 639111 $\frac{1}{4}$	K 645083 $\frac{1}{4}$
K 639061 $\frac{1}{4}$	K 639089 $\frac{1}{4}$	K 639112 $\frac{1}{4}$	K 645084 $\frac{1}{4}$
K 639062 $\frac{1}{4}$	K 639090 ✓	K 639113 $\frac{1}{4}$	K 645104 ✓
K 639063 $\frac{1}{2}$	K 639091 $\frac{1}{4}$	K 639114 $\frac{1}{4}$	K 645105 $\frac{1}{4}$
K 639064 $\frac{1}{4}$	K 639092 ~✓	K 639115 $\frac{1}{4}$	K 645106 $\frac{1}{4}$
K 639065 $\frac{1}{4}$	K 639093 $\frac{1}{2}$	K 639116 $\frac{1}{4}$	K 645107 ~✓
K 639066 $>\frac{1}{2}$	K 639094 $\frac{1}{2}$	K 639117 $\frac{1}{4}$	K 645108 $\frac{1}{4}$
K 639067 $\frac{3}{4}$	K 639095 $>\frac{3}{4}$	K 639118 $\frac{1}{4}$	K 645109 $\frac{1}{4}$
K 639068 $\frac{3}{4}$	K 639096 $\frac{1}{2}$	K 639119 $\frac{1}{4}$	K 645110 ~✓
K 639069 $\frac{1}{4}$	K 639097 $\frac{1}{4}$	K 639120 $\frac{1}{4}$	K 645111 $\frac{1}{4}$

29

$\frac{30}{4}$

$\frac{25}{4}$

$\frac{20}{4}$

$(90 \times 40) \div (90 + \frac{10}{4}) = 31 \text{ days.}$

NOV 26 1985

639047

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

SAND and GRAVEL

- ① GRAVEL File 156744
- ② GRAVEL File 144049
- ③ MTC PIT N1112

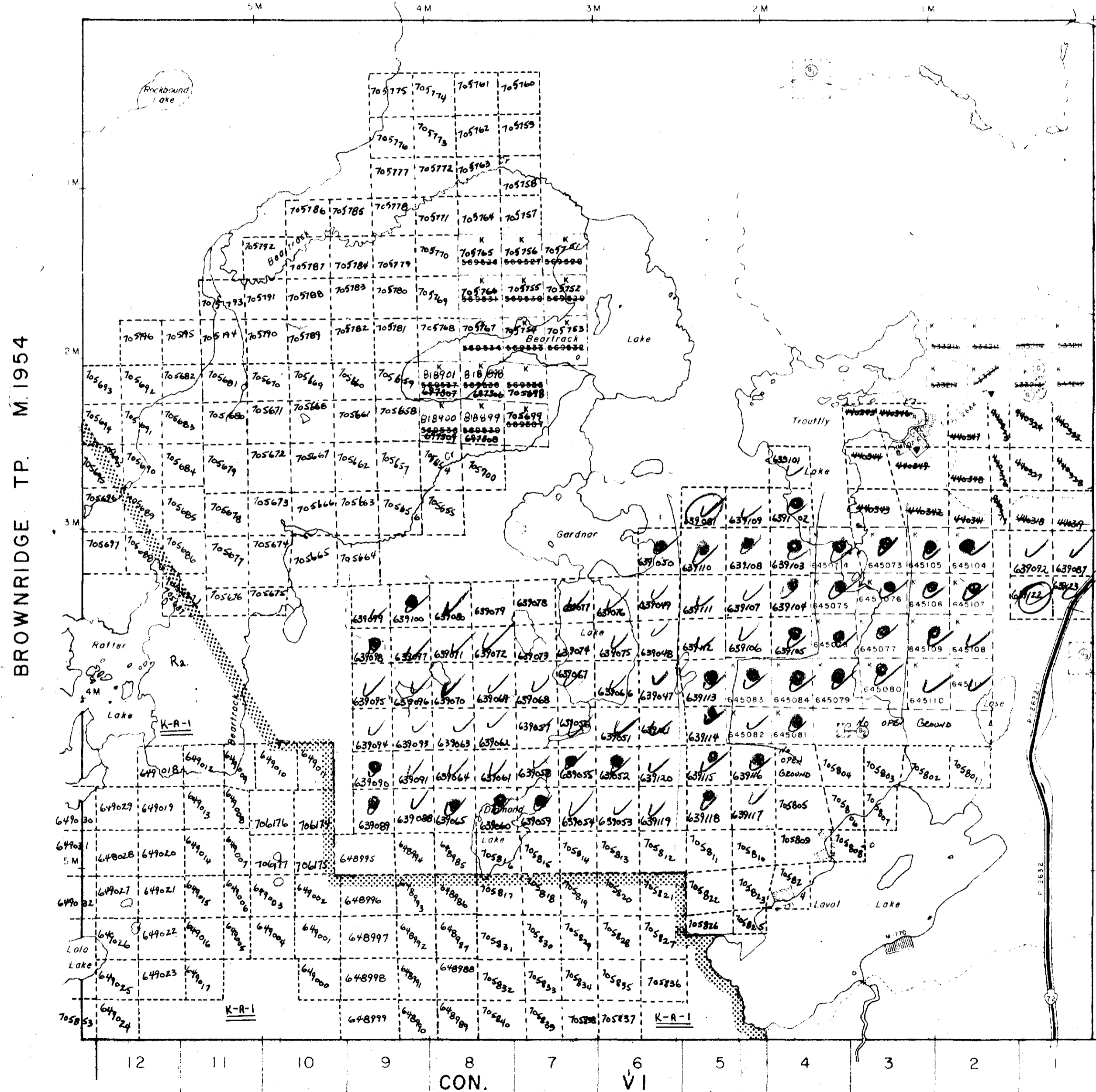
AREAS WITHDRAWN FROM STAKING

S.R. - SURFACE RIGHTS M.R. - MINING RIGHTS

Section Date Disposition File

R2 00M w 37/83 S+MR A4623/83

WEBB TP. M.1874

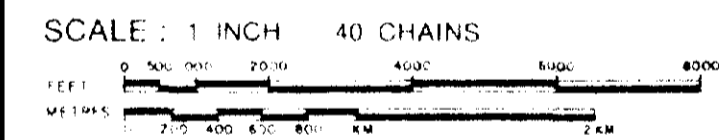


LEGEND

- HIGHWAY AND ROUTE N.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP'S BASE LINES ETC.
- LOTS MINING CLAIMS PARCELS ETC.
- INSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARCH OR MUSHY
- MINES

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 | ◔ |
| CROWN LAND SALE | CS |
| ORDER-IN-COUNCIL | OC |
| RESERVATION | ⊕ |
| CANCELLED | ⊖ |
| SAND & GRAVEL | ⊗ |



ACRES	HECTARES
40	16

TOWNSHIP *2/ May 27/85*

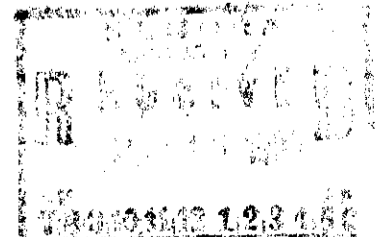
LAVAL

DISTRICT
KENORA
MINING DIVISION
KENORA

Ministry of Natural Resources

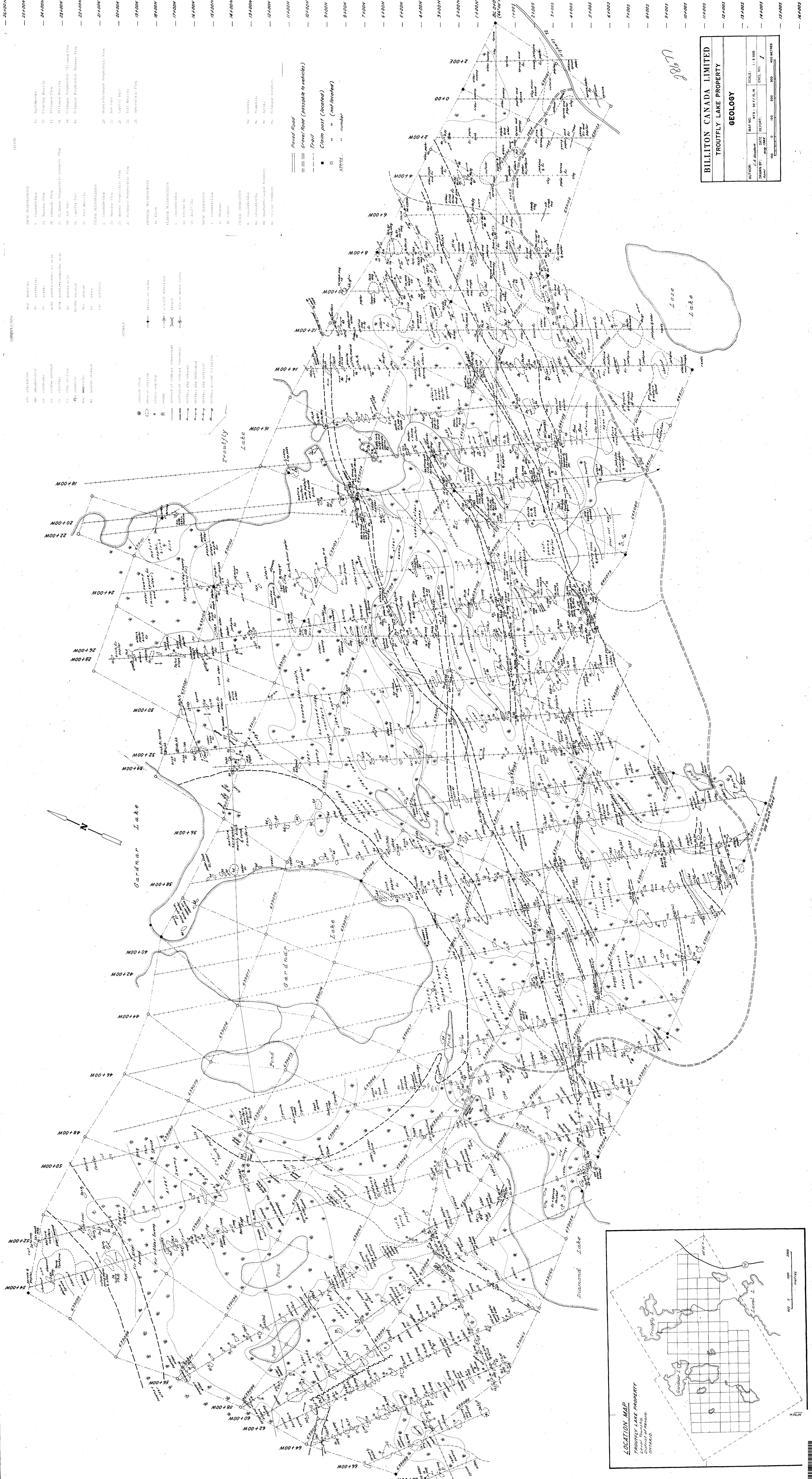
Ontario Surveys and Mapping Branch

Date Nov '84
Whitney Block
Queen's Park Toronto
M.3370



52F165N0031 2.8677 LAVAL

HARTMAN TP. M.1986



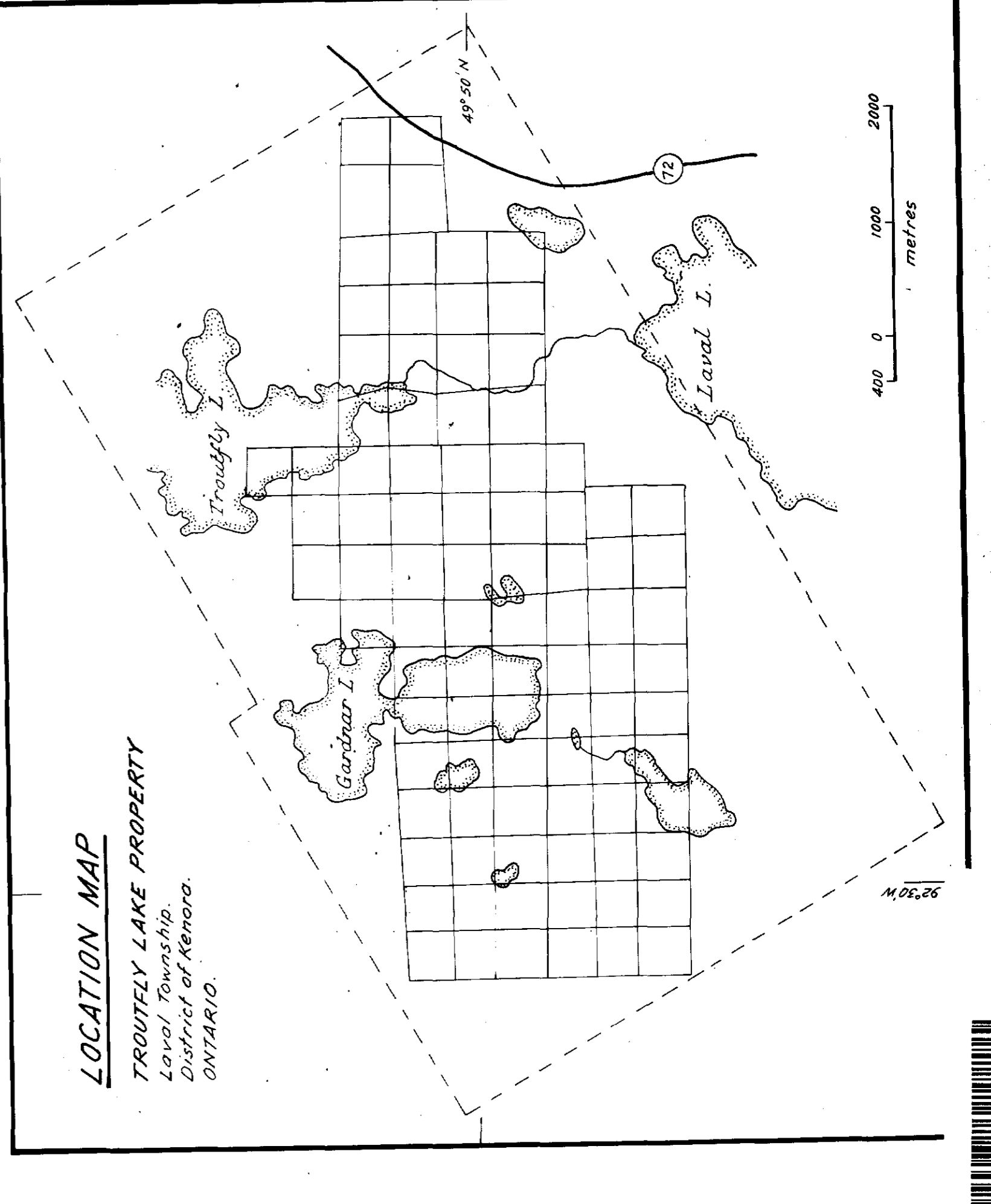
SYMBOLS

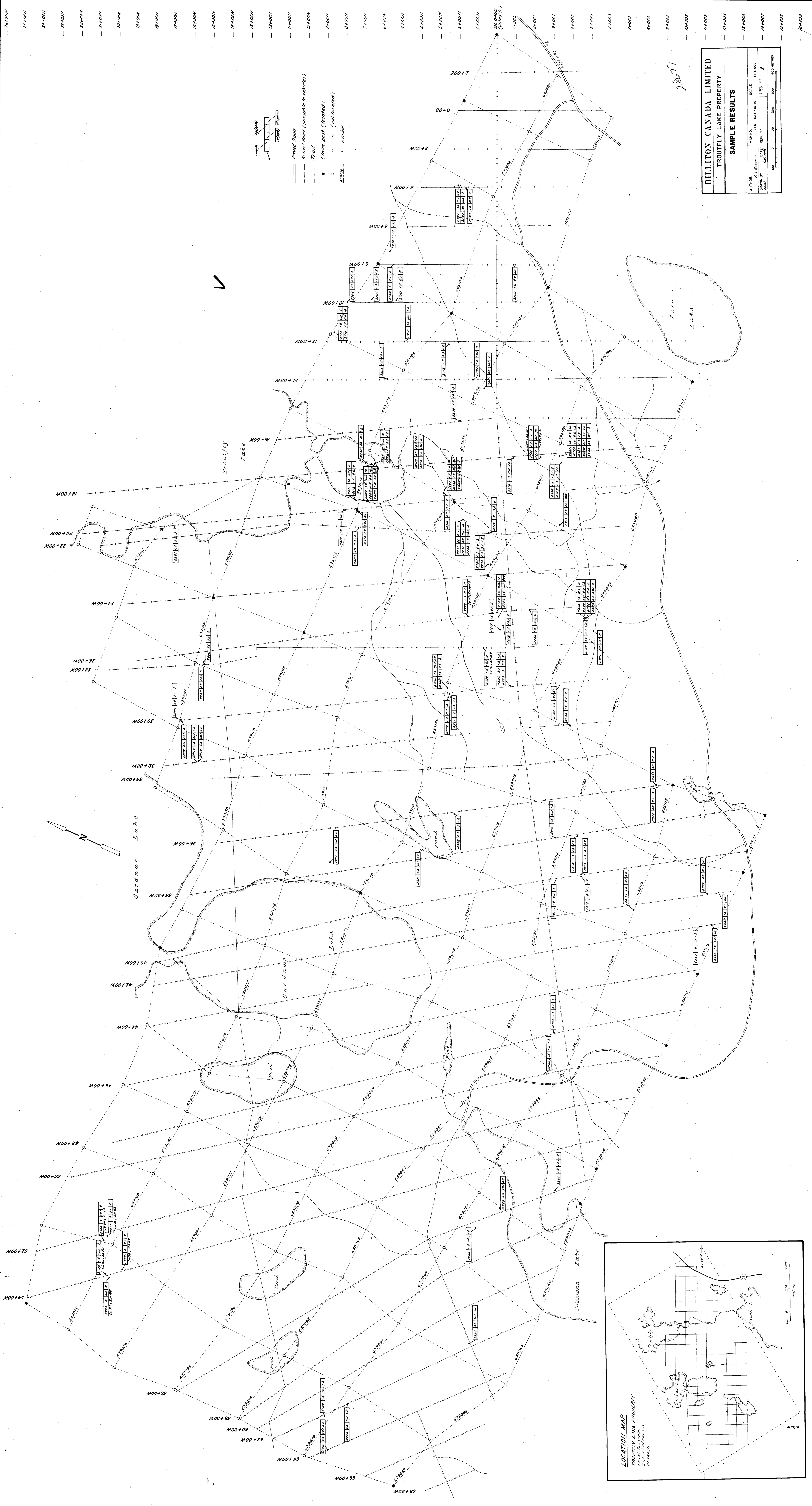
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BILLITON CANADA LIMITED
TROUTFLY LAKE PROPERTY
GEOLOGY

MAP NO. 114005
 SCALE: 1:5000
 DATE: 1971
 REPORT NO. 114005
 SHEET NO. 1
 OF 1

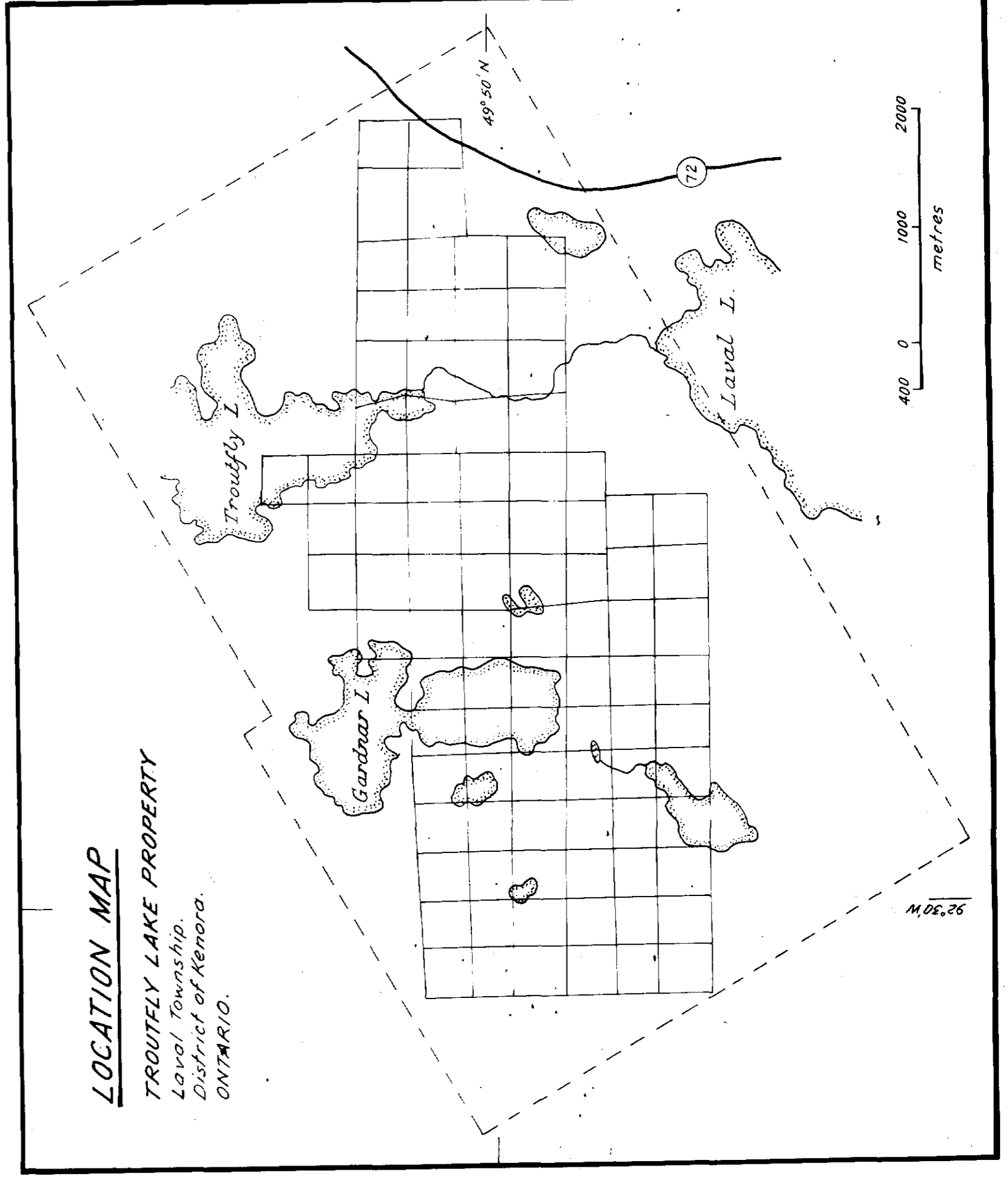
0 100 200 300 400 500 METRES
 0 100 200 300 400 500 FEET





BILLITON CANADA LIMITED
TROUTFLY LAKE PROPERTY
SAMPLE RESULTS

AUTHOR: J.A. Gardner	MAP NO: NTS 3277/91.18	SCALE: 1:5,000
DATE: 04/2007	REPORT: 2	PLANS: 2
0 100 200 300 400 METRES 0 100 200 300 400 METRES		





52F16SW0031 2.8677 LAVAL

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**BILLITON CANADA LTD.
REPORT ON A
GEOLOGICAL SURVEY
OF THE
TROUTFLY LAKE PROPERTY
LAVAL TOWNSHIP
KENORA MINING DIVISION
ONTARIO**

N.T.S. 52F/16

Lat. 49°50' Long. 92°30'

**J.A. Goodwin
November, 1985**



52F16SW0031 2.8677 LAVAL

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INTRODUCTION

The following report describes a geological mapping and geochemical sampling program that took place between May 26th and June 19th, 1985, on the Troutfly Lake Property of Billiton Canada Ltd.

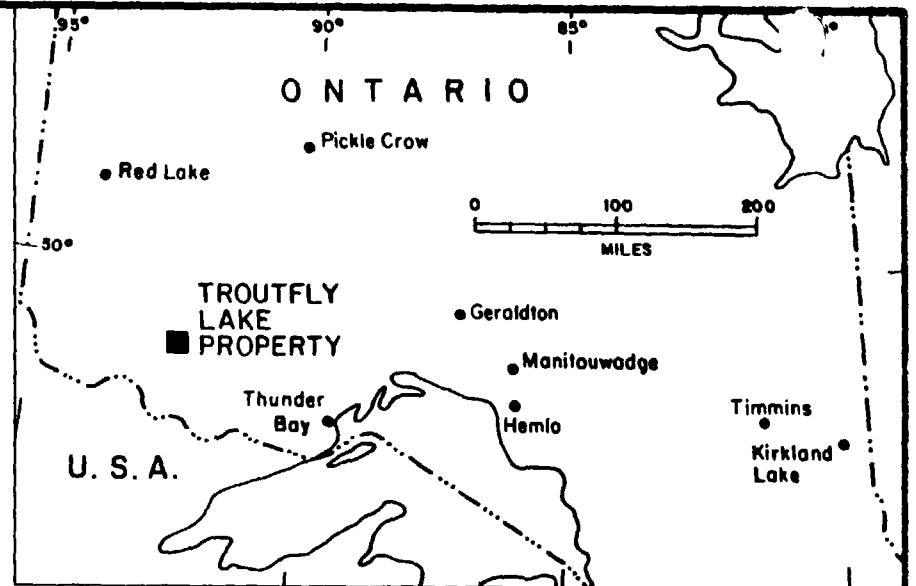
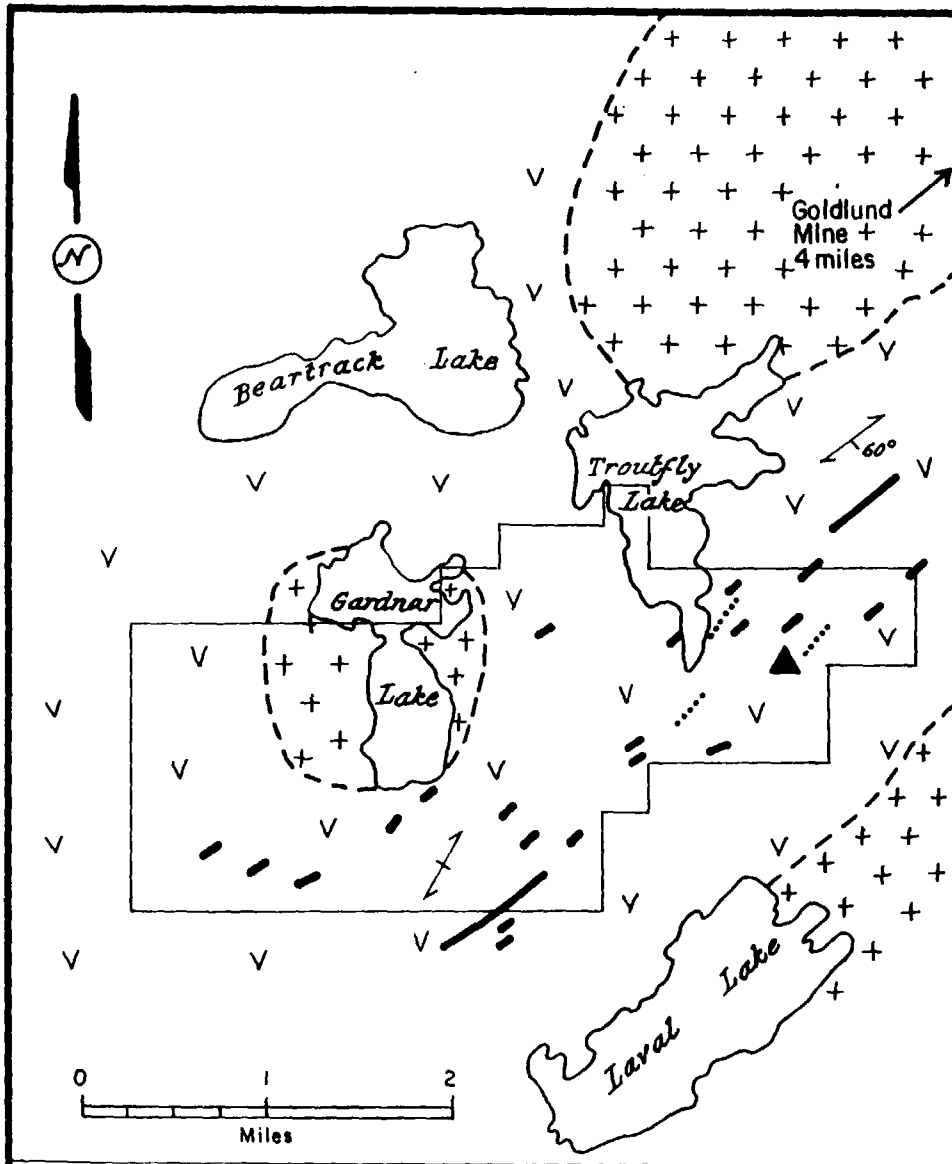
Mapping was done at the scale of 1:5,000 on 85 kilometers of cut grid with lines spaced 200 meters apart.

PROPERTY DESCRIPTION

The property consists of 92 contiguous unpatented mining claims covering approximately 3,680 acres located south and west of Troutfly Lake in east-central Laval Township in the Kenora Mining Division of Northwestern Ontario (Appendix A). The claims are shown in Figure 2. The claim map of Laval Township indicates a narrow strip of unstaked ground in the extreme east part of the property separating claims 645104 and 645107 on the west from claims 639092 and 639122 on the east. These claims are in fact contiguous, the appropriate claim posts abutting one another.

LOCATION, ACCESS AND INFRASTRUCTURE

The property lies 16 miles northeast of Dryden about mid-way between Winnipeg, Manitoba and Thunder Bay, Ontario (Figure 1). Dryden, a forest product and pulp and paper community with a population of 6,500 has a well-developed infrastructure being on the Trans Canada Highway and the Canadian Pacific Railway main line which provides daily freight and passenger service. Regional air carrier Nordair provides daily jet service with direct flights to Winnipeg, Thunder Bay, Sault Ste. Marie, Toronto and Montreal. Natural gas and hydroelectric power are readily available in the area.



- + Granite
- V Mafic volcanic
- Quartz porphyry dyke
- EM anomaly (Mistango)
- ▲ Approx. location of Calder - Bousquet Prospect

BILLITON CANADA LIMITED			
TROUTFLY LAKE PROPERTY			
LOCATION MAP			
AUTHOR:	MAP No:	SCALE:	
JAG	52F/15,16		
DRAWN BY:	DATE	REPORT:	ENCL. No:
nom1	sept'84		
Figure 1			

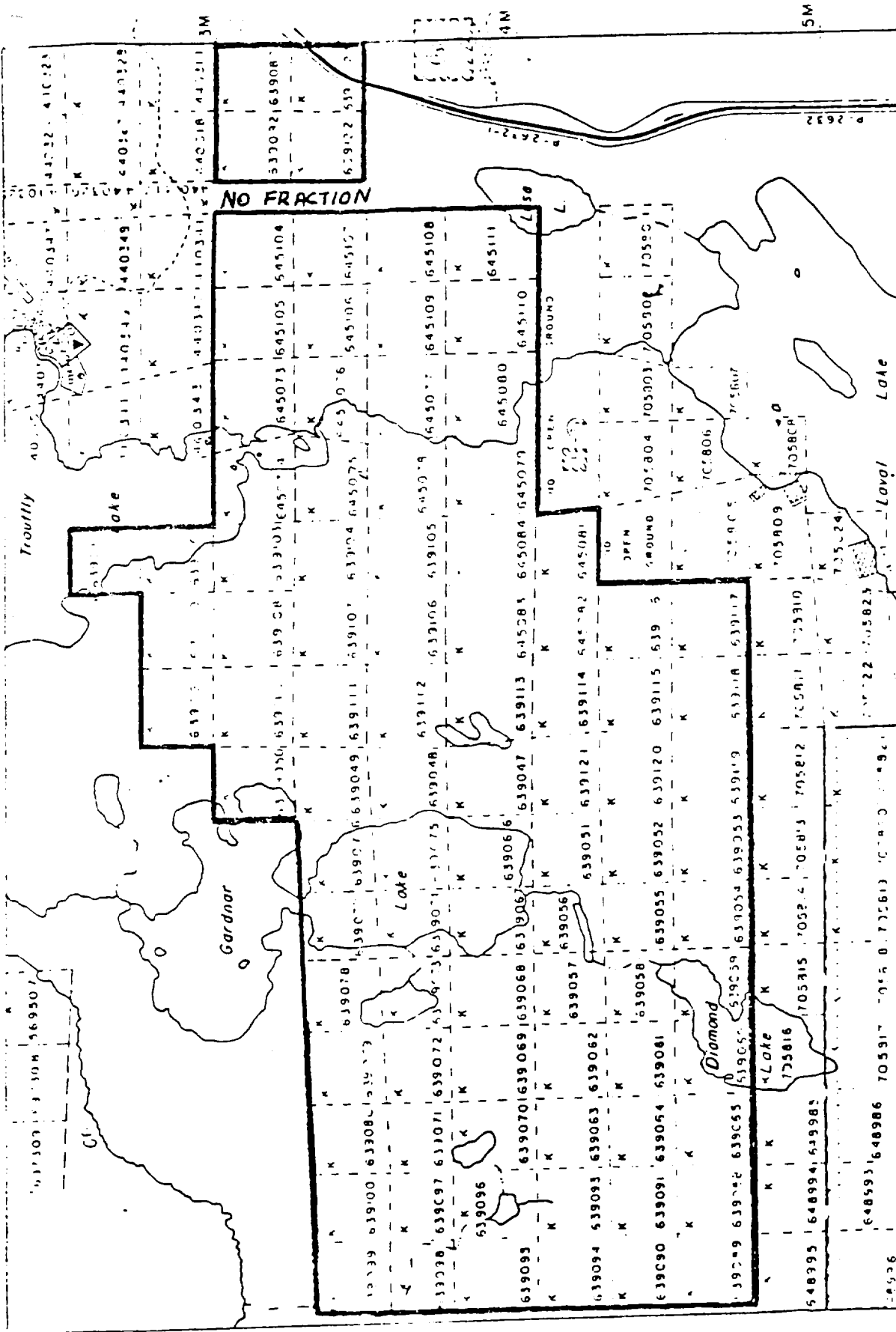


FIGURE 2

CLAIM MAP

From Plan M. 3370 LAVAL TOWNSHIP
 Ministry of Natural Resources of Ontario

Scale: 1" to 1/2" mile

Access to the Troutfly Lake Property itself is by a secondary gravel road leading west onto the claim group from paved Highway 72 about 10 miles north of Dinorwic, 17 miles east from Dryden along the Trans Canada Highway. Water for diamond drilling and general camp use is available on the property and food, sundry supplies and fuel can be obtained at either Dryden or Dinorwic.

HISTORY OF THE PROPERTY

The area was mapped by Satterley for the Ontario Department of Mines in 1941. Claims were staked in the area during 1950 and worked in 1951 by both Calder-Bousquet Mines Ltd. and Eclund Mines Ltd.

Both Satterley and Calder-Bousquet located a number of northeast-trending "granodiorite" dykes on the property. At least three of these are heavily altered with sericite, tourmaline, quartz veining, carbonate and sulphides and have returned grab sample values of up to 4.66 g/t gold.

Calder-Bousquet drilled 11 holes to test a 15 meter wide zone for 300 meters strike and to a depth of thirty meters. The best intersection was 8.4 g/t (0.27 oz/t) gold over an unspecified width. The company estimates that it has outlined 41,500 t of 4.66 g/t (0.15 oz/t) gold.

Selco Mining Corporation Ltd. conducted EM and magnetometer surveys over part of the claims in 1977 and 1978 and drilled a number of base metal targets in 1978.

Mistango Exploration Ltd. did a limited geological investigation of the eastern part of the claims, a limited ground magnetometer survey and flew airborne VLF-EM and magnetometer surveys over the whole property.

Billiton optioned the property in late 1984, cut 85 kilometers of grid and did ground VLF-EM, total field and gradiometer magnetic surveys over the entire property.

1985 PROGRAM

The aims of the 1985 program were to:

- (1) Geologically map the property with emphasis on locating and defining trondhjemite or quartz-porphyry dykes with potential for Goldlund-style gold mineralization;
- (2) Extensively sample the dykes to locate areas of gold mineralization; and
- (3) To locate and investigate the Calder-Bousquet Showing.

REGIONAL GEOLOGY

The Troutfly Lake Property lies towards the center of the Savant Lake/Crow Lake metavolcanic-metasedimentary belt which stretches for a distance of 298 kilometers at the western end of the Wabigoon Subprovince of the Superior Province of the Canadian Shield. Rocks within the Wabigoon Subprovince show a pronounced northeast alignment and are confined to two broad lithologic zones now separated by a large area underlain by granite rocks.

Within the immediate areas of Laval Township, the oldest rocks consist of steeply inclined and apparently conformable intercalated volcanic flows and sediments. A variety of intrusive rocks occur within the volcanics as narrow sills or dykes or small to large bosses and occasionally contain xenoliths of volcanic material.

GEOLOGY OF THE PROPERTY

General Statement

The property consists of a number of steep-sided, northeasterly trending rock ridges, separated by narrow swampy areas underlain by varved clays and sandy glacial deposits. Outcrop is approximately 60% to 70% in most areas.

An interbedded series of mafic and felsic volcanics strike across the property in a northeasterly direction, dip vertically to 25° to the southeast, and young in the same direction (Map 1). The volcanics are overlain by sediments in the extreme southeastern part of the property. A small biotite granite stock (the Gardner Lake Stock) intrudes the north-central part of the claims and adjacent volcanics tend to be warped and wrapped around the intrusion. Numerous northeasterly striking quartz porphyry, quartz feldspar porphyry, feldspar porphyry and trondhjemite dykes intrude the volcanics. The volcanics are of greenschist facies metamorphism, except close to the Gardner Lake Stock where hornfels is common.

No petrographic work has been done to date, therefore rock names are based on field identification.

Lithology

Mafic volcanics (1) are the most predominant rock type on the property. These are mainly massive, aphanitic (1a) or gabbroic-textured (1b) flows with a poor to moderate fabric and are usually magnetite rich. Occasional feldspar porphyritic flows (1c, 1m) contain angular, irregular feldspar crystals up to four centimeters in diameter and are good marker horizons.

Pillowed flows (1j) with associated pillow breccia (1k), and flow-top breccias (1h) are rarer. These may be feldspar porphyritic (1m) or weakly variolitic and tend to have strong fabrics with pillow elongation of up to 20:1.

Fragmental mafic rocks are best developed in the northern part of the property and are comprised mainly of ash tuffs (1d) with lesser amounts of lapilli tuff (1e), tuff breccia (1f) and agglomerate (1g).

Felsic volcanics (2) are sporadically interbedded throughout the property and consist mainly of fine to medium grained, light grey ash tuffs (2e) and lapilli tuffs (2f) with minor tuff breccia (2g). Rare massive, fine grained flows (2a) and porphyritic

flows (2b, 2c, 2d) occur in the eastern part of the area. A distinctive spherulitic flow (2h) was seen west of Troutfly Lake on line 20+00W and consists of a fine grained grey matrix containing variable quantities of rounded, often hollow spherulites up to two centimeters in diameter.

Chemical sediments are represented by a banded, dark to light grey chert unit (3a) at 18+00W/3+20S. This unit is at least 2.44 meters wide and is associated with massive, bedded pyrite and pyrrhotite exposed in a trench thirty meters west.

Poorly graded, medium grained, brown-coloured greywackes (4a) overlie the volcanics in the southeastern part of the claims, and contain thin dark chloritic argillite units (4b).

Mafic intrusives are mainly medium to coarse grained magnetite-rich gabbro (5b), possibly related to the gabbroic mafic flows. Narrow diabase dykes (5a) are common.

A wide variety of felsic intrusives (6) are present on the property, ranging from coarse, biotite granite (6d) of the Gardner Lake Stock to thin aplite dykes of similar age (6f).

Numerous "granodiorite" (6a) and porphyry dykes (6b, 6c, 6g) occur throughout the property and have importance as potential hosts of gold mineralization. The dykes may be traceable over long distances or may form swarms or short en-echelon lenses. Strikes are usually 040° to 050° and dips to the south at 040° to 070°.

The "granodiorite" is probably a trondjemite similar to that at the Goldlund Mine, however this has not been determined analytically. The rock is light to dark grey, medium grained with coarse feldspar clasts and forms dykes up to 25 meters thick. Porphyry dykes were rarely observed to reach this thickness, but tend to form swarms. The rock is white to brown-weathering, medium grained and contains variable quantities of quartz, quartz and feldspar or feldspar phenocrysts, usually two to five millimeters in diameter but occasionally exceeding one centimeter. The significance of these dykes will be discussed later in this report.

Stratigraphy and Structure

A stratigraphic top direction to the southeast is indicated by pillowed flows in the northwestern part of the property. This is substantiated by the general sequence in the southeastern part of the property that progresses from mafic volcanics through felsic volcanics, exhalite chert to clastic sediments.

Structurally, the area is dominated by a strong F_1 fabric at about 045° that appears parallel or sub-parallel to original bedding. Intense shearing can be observed to the south of the Troutfly Lake following the F_1 direction.

A second, poorly developed cleavage (F_2) at 075° has been observed in some outcrops.

No major folding was observed, however minor outcrop-scale folds and crenulations have axes close to the F_1 direction. Interpretation of geophysical surveys indicates possible faults on the property trending 150° , however no geological evidence was obtained to substantiate this.

MINERALIZATION, ALTERATION AND GEOCHEMICAL SAMPLING

In total, 108 samples were collected (Map 2). All were analysed for gold, silver and tungsten and eight were also analysed for copper and zinc (Appendix B).

Analyses were performed by Bondar-Clegg and Company Ltd., Ottawa as per the specifications in Appendix B.

Six potential targets for gold \pm base metal mineralization were recognized, mapped and sampled.

Exhalative Horizon in the Eastern Part of the Property

The chert and massive pyrite/pyrrhotite horizon located at 18+00W/3+20S was drilled by Eclund Mines Ltd. in 1951 as a base metal target. Results are said to be negative. A large outcrop of banded recrystallized chert 2.44 meters thick was

stripped by BCL and sampled together with the wallrock. The pyrite and pyrrhotite horizon exposed in an adjacent trench were also sampled. All samples ran less than 5 ppb gold. Silver values were elevated, reaching 3.6 ppm in one sample.

Pyritic Felsic Tuffs

A pyritic felsic tuff in the northwestern part of the property was sampled. The highest gold value was 5 ppb, silver 0.2 ppm, and tungsten 0 ppm. Base metal values were elevated, running 100 ppm zinc and 95 ppm copper. A similar pyrite-bearing felsic tuff at 18+00W/2+20S returned low values of all metals.

Shear-Hosted Quartz Veins

Several old, unreported trenches were located on a small island in the south bay of Troutfly Lake (Line 18+00W). A highly carbonatized shear zone approximately thirty meters wide strikes at 155° and contains quartz-carbonate veins and stringers with moderate coarse pyrite. A second quartz vein system branches from the shear at approximately 360°. The highest values from six grab samples of the vein and shear material was 5 ppb gold and 0.9 ppm silver. Tungsten appeared elevated in the shear with a high of 16 ppm.

Sweat Veins in Sediments

The highest gold values on the property were obtained from very narrow, foliation-parallel "sweat" veins in the sediments at 4+00W/2+00N (190 and 95 ppb gold).

"Granodiorite Dykes"

Two major "granodiorite" (trondhjemite) dykes are located west of Troutfly Lake. Both dykes are strongly carbonatized, locally silicified, and contain disseminated pyrite and minor chalcopyrite. Cross-cutting quartz stringers and narrow veins contain minor pyrite and pyrrhotite and occasional coarse crystals of galena, sphalerite and tourmaline. This veining is well developed at 19+50W/8+00N.

Nine grab samples of the better altered and mineralized material were taken over a wide area. A sample from 30+00W/3+75N returned the highest values: 10 ppb gold and 86.5 ppm silver. The high silver value is due to galena in vein material. All other samples ran less than 5 ppb gold.

Porphyry Dykes

A large number of porphyry dykes cross the property and are, almost without exception, carbonatized, pyritized and contain quartz, quartz-carbonate and/or quartz tourmaline veins. Veining and alteration are strongest in the vicinity of Troutfly Lake and tend to die out towards the west, although the intensity may vary along any particular dyke.

The veins tend to cross-cut dykes approximately 025° and 160° , but may be stringer-type in multiple directions.

At least three ages of veining are apparent: an early set of quartz veins generally sub-parallel to foliation or cross-cutting at high angles; quartz tourmaline veins; and later quartz-carbonate-sulphide veins. Sulphides occur in the altered dykes as heavy disseminations.

Seventy six samples were taken from various dykes and wall-rocks. Most dykes, although well altered and veined, ran trace to low values of gold, silver and tungsten. Four dykes had anomalous metal values:

- (1) At 28+00W/16+50N a one meter wide dyke ran 55 ppb gold, 0.2 ppm silver, and 2 ppm tungsten.
- (2) A dyke traced from 32+00W/0+50N to 18+00W/3+75N may be twenty meters wide and is the most altered dyke observed. Erratic values ran up to 50 ppb gold, 3.7 ppm silver, and 900 ppm tungsten.
- (3) One sample from a swarm of narrow dykes ran 36 ppm tungsten.
- (4) A narrow dyke at 21+70W/3+00S ran 700 ppm tungsten.

THE CALDER-BOUSQUET SHOWING

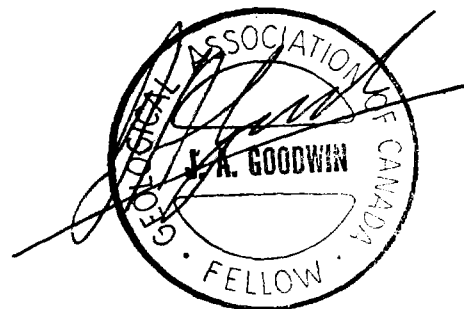
No data indicating the location of the Calder-Bousquet Showing is available. As the showing was apparently drilled immediately after a geological survey, it would seem probable that the target was a surface showing. It was hoped, therefore, to pinpoint the showing by sampling of outcrops and locating drill collars, drill sites, old core or trenches, etc.

No gold values sufficiently high to have warranted a drill program were obtained, and no evidence of surface work, except for trenching on the Troutfly Lake Island and a small "pop-blast" pit at 18+20W/3+75N, was seen. The evidence may have been destroyed during logging in the Troutfly Lake area.

It is concluded that, unless further data indicating the position of the showing should come to light, the Calder-Bousquet Showing is not locatable by prospecting or sampling of the dykes. Soil geochemistry is not thought to be applicable due to the clay/sand overburden and no significant geophysical anomaly was located associated with dykes.

CONCLUSIONS AND RECOMMENDATIONS

Geological mapping located a number of promising targets for gold mineralization including well altered and veined "granodiorite" (trondhjemite) and quartz feldspar porphyry dykes. Sampling has indicated only sporadic and poorly anomalous values of gold, silver or tungsten. The Calder-Bousquet Showing was not located. No further work is recommended.



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- Gair, A.T.F. (1984): Report on the Troutfly Lake Property, for Mistango Consolidated Resources Ltd. June, 1984.
- Lowe, J.H. (1951): Geology of the Property of Calder-Bousquet Gold Mines Limited, Laval Township, Ontario.
- Shein, V.M. (1984): Report on Calder-Bousquet Gold Property, Laval Township, Kenora Mining Division Northwestern Ontario for Mistango Consolidated Resources Limited. A.C.A. Howe International Ltd. Report No. 492.

APPENDIX A
Technical Information

APPENDIX B

Analysis Results



REPORT: 015-1455 (COMPLETE)

REFERENCE INFO: P.O.# 1945

CLIENT: BILLITON CANADA LIMITED
 PROJECT: NONE

SUBMITTED BY: BILLITON
 DATE PRINTED: 21-JUN-85

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu Copper	2	1 PPM	HCl-HNO ₃ , (1:3)	Atomic Absorption
2	Zn Zinc	2	1 PPM	HCl-HNO ₃ , (1:3)	Atomic Absorption
3	Ag Silver	9	0.1 PPM	HCl-HNO ₃ , (1:3)	Atomic Absorption
4	W Tungsten	7	2 PPM	CARBONATE SINTER	Colourimetric
5	Au Gold	9	5 PPB	AGUA REGIA	FA-AA @ 30 gm weight

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	9	-200	9	CRUSH, PULVERIZE -200	9

REMARKS: < MEANS LESS THAN

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INVOICE TO: 141 ADELAIDE STREET WEST

WPM



REPORT: 015-1303

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	H PPM	Au PPM
---------------	---------------	--------	-------	--------

2701		0.5	<2	190
2702		0.3	2	95
2703		0.2	2	20
2704		0.1	2	5
2705		<0.1	4	15

2706		<0.1	2	10
2707		<0.1	<2	<5
2708		<0.1	<2	<5
4501		86.5	<2	10
4502		0.3	2	<5

4503		0.5	2	<5
4504		0.3	<2	<5
4505		0.4	2	<5
4506		<0.1	6	<5
4507		0.4	2	<5

4508		0.4	2	<5
4509		<0.1	8	<5
4510		<0.1	<2	<5
4511		<0.1	2	<5
4512		0.4	4	<5

4513		<0.1	500	<5
4514		<0.1	8	<5
4515		<0.1	4	<5
4516		0.5	2	<5
4517		0.5	2	<5

4518		<0.1	2	<5
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REPORT: 015-1304

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	H PPM	Au PPM
---------------	---------------	--------	-------	--------

2709		0.4	<2	<5
2710		0.7	8	<5
2712		0.3	<2	<5
2713		0.7	<2	<5
2714		0.7	4	<5

2715		0.4	14	<5
4519		0.6	4	5
4520		0.5	4	<5
4521		0.4	<2	<5
4522		3.6	<2	<5

4523		1.7	4	<5
4524		0.5	<2	<5
4525		0.4	2	<5
4526		1.2	<2	<5
4527		1.7	<2	<5

Bondar-Clegg & Company Ltd.
5420 Canotek Rd.,
Ottawa, Ont. K1A 8X5
Canada
Phone: 749-2220
Telex: 033-5233



Certificate
of Analysis

REPORT: 415-1304

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag O/T	W PCT
4501		1.20	
4513			0.06

Chief Chemist



REPORT: 015-1411

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Li PPM	Be PPM	Nb PPM	Ta PPM	Cu PPM	Zn PPM	Ag PPM	W PPM	Au PPM
2711		42	6	32	8					
2716						4	12	<0.1		<5
2717						27	31	0.1		<5
2718								0.4	<2	<5
2719								<0.1	700	<5
2720								<0.1	6	<5
2721								<0.1	2	<5
2722								<0.1	36	<5
2723						117	1445	0.5		<5
2724						10	158	<0.1		<5
2725						39	70	<0.1		<5
2726						95	100	0.2		5
2727						38	34	0.1		5
2801								<0.1	2	<5
2802								<0.1	16	<5
2803								<0.1	2	<5
2804								<0.1	4	<5
2805								<0.1	8	<5
2806								0.2	2	55
2807								<0.1	2	<5
2808								<0.1	2	<5
2809								0.1	<2	<5
2810								<0.1	<2	<5
2811								0.1	<2	<5
2812								0.1	<2	<5
2813								0.1	4	<5
2814								0.1	4	<5
2815								<0.1	<2	<5
2816								<0.1	<2	<5
2817								0.1	6	<5
2818								0.1	<2	<5
2819								0.1	<2	<5
2820								1.6	<2	<5
4528								1.9	<2	<5
4529								1.8	<2	20
4530								3.7	2	5
4531								1.9	<2	<5
4532								0.5	4	<5
4533								0.1	4	<5
4534								<0.1	<2	<5



REPORT: 015-1411

PROJECT: NONE

PAGE 2

SAMPLE NUMBER	ELEMENT UNITS	Li PPM	Be PPM	Nb PPM	Ta PPM	Cu PPM	Zn PPM	Ag PPM	W PPM	Au PPB
4535								<0.1	<2	<5
4536								3.0	2	<5
4537								<0.1	<2	<5
4538								0.1	<2	<5
4539								0.1	<2	<5



REPORT: 015-1455

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Zn PPM	Ag PPB	W PPM	Au PPB
2728				0.1	<2	<5
2729				<0.1	<2	<5
2730				<0.1	<2	<5
2821				<0.1	<2	<5
2822				<0.1	<2	<5
2823				<0.1	<2	<5
2824				<0.1	<2	<5
4540		34	35	<0.1		5
4541		15	62	0.1		5



REPORT: 015-1557

PROJECT: NONE

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag PPM	W PPM	Au PPB
---------------	---------------	--------	-------	--------

2731		0.1	8	40
2732		0.1	4	50
2733		<0.1	4	<5
2734		0.9	2	<5
2735		0.1	<2	<5

2736		1.7	900	<5
2737		0.4	12	<5
2825		0.8	4	5
2826		0.1	<2	<5
2827		0.3	16	<5

2828		0.9	10	<5
2829		0.2	10	<5
2830		<0.1	2	<5
2831		0.3	2	<5

APPENDIX C

Analysis Costs: Supporting Data

BILLITON CANADA LTD.



THE TORONTO-DOMINION BANK
YORK ST. & 141 ADELAIDE ST. W.
TORONTO, ONTARIO M5H 2L5

01-6183

NUMBER 1
CURRENT ACCOUNT

DATE 01-11-19

PAY THE SUM OF Two hundred and seventy five ⁰⁰/₁₀₀ DOLLARS \$ 275.00

TO Londer-Clegg
THE 5420 Canotek Road
ORDER Ottawa, Ontario
OF K1H 6Y5

BILLITON CANADA LTD.

NON NEGOTIABLE

AUTHORIZED SIGNATURES

DESCRIPTION

AMOUNT

BILLITON CANADA LTD.

ACCOUNTS PAID	
GORDON	QTY.
CREDIT CHECKED	QTY.
	PRICE
<i>968-06-02</i>	
APR	<i>J</i>
CHECK NO.	

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED

BILLITON CANADA LIMITED
141 ADELAIDE STREET WEST
SUITE 1006
TORONTO, ONTARIO
M5H 3L9

Invoice : 111998, Page 1

Date : 28-JUN-85

Report No: 015-1557

Project : NONE

Reference: P.O.# 1946

14 Analyses of Silver	at \$ 2.00	\$ 28.00	
Subtotal		\$ 28.00	\$ 28.00
14 Analyses of Gold	at \$ 8.00	\$ 112.00	
Subtotal		\$ 112.00	\$ 112.00
14 Analyses of Tungsten	at \$ 4.75	\$ 66.50	
Subtotal		\$ 66.50	\$ 66.50
Sample Preparation			
14 Samples of CRUSH, PULVERIZE -200	at \$ 3.25	\$ 45.50	
Subtotal		\$ 45.50	\$ 45.50
Invoice Total:			\$ 252.00 Cdn

RECEIVED
JUL 5 1985

ACCOUNTS PAYABLE:	
GOODS REC'D.	QTY.
ORDER CHECKED	QTY.
	PRICE
DATE OF ACCURACY <i>✓</i>	
CERTIFIED ORIGINAL <i>✓</i>	
CODING <i>981669</i>	
APPROVES FOR PAY <i>JP</i>	
CHECK NO.	

**THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED**

BILLITON CANADA LIMITED
 C/O CEDAR MOTEL
 P.O. BOX 843,
 DRYDEN, ONTARIO.
 P8N 2Z5

Invoice : 111798, Page 1



Date : 17-JUN-85

Report No: 415-1304

Project : NONE

Reference : P.O. # 968-06-02

1 Analyses of Silver - Assay	at \$ 7.50	\$ 7.50		
1 Analyses of Tungsten - Assay	at \$ 10.50	\$ 10.50		
Subtotal		\$ 18.00	\$	18.00
Sample Preparation				
2 Samples of PULVERIZING	at \$ 2.50	\$ 5.00		
Subtotal		\$ 5.00	\$	5.00
Invoice Total:			\$	23.00 Cdn

ACCOUNTS PAID	
GOODS	QTY.
CREDIT AMOUNT	QTY.
	PRICE
 968-06-02	
APR 17 1985	
CHECK No.	

BILLITON CANADA LTD.

THE TORONTO-DOMINION BANK
YORK ST. & 141 ADELAIDE ST. W.
TORONTO, ONTARIO M5H 3L5

01-6109



NUMBER 1
CURRENT ACCOUNT

DATE June 1, 1965

BY THE ORDER OF Sayer Industrial and Chemicals Ltd. 100 DOLLARS \$ 732.00

TO THE ORDER OF
SOMER - Clegg and Co. Ltd.,
5410 Canotek Road,
OTTAWA, Ontario
K1J 6K5

BILLITON CANADA LTD.

NON NEGOTIABLE

AUTHORIZED SIGNATURES

1965

DESCRIPTION

AMOUNT

20 samples of CRUSH, PULVERIZE - 200

TOTAL

BILLITON CANADA LTD.

20 samples of CRUSH, PULVERIZE - 200	at \$ 3.25	\$ 84.50	
Subtotal		\$ 84.50	\$ 84.50
Invoice Total:			\$ <u>468.00</u> Can

ACCO PAYA
60 8
<p>CR.</p> <p><u>REST</u></p> <p>968-06-02</p>
CHES

THIS IS A PROFESSIONAL SERVICE
ACCOUNTS DUE WHEN RENDERED



BONDAR-CLEGG

BILLITON CANADA LIMITED
 C/O CEDAR MOTEL
 P.O. BOX 843,
 DRYDEN, ONTARIO.
 PBN 2Z5

Invoice : 111700, Page 1

Date : 7-JUN-85

Report No: 015-1303

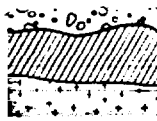
Project : NONE

Reference: P.O.#1942

26 Analyses of Silver	at \$ 2.00	\$ 52.00		
Subtotal		\$ 52.00	\$	52.00
26 Analyses of Gold	at \$ 8.00	\$ 208.00		
Subtotal		\$ 208.00	\$	208.00
26 Analyses of Tungsten	at \$ 4.75	\$ 123.50		
Subtotal		\$ 123.50	\$	123.50
Sample Preparation				
- 26 Samples of CRUSH, PULVERIZE -200	at \$ 3.25	\$ 84.50		
Subtotal		\$ 84.50	\$	84.50
Invoice Total:			\$	468.00 Cdn

ACCG
PAY
GO
OF
<i>Ch.</i> <i>Perst.</i>
968-03-02
Checked

THIS IS A PROFESSIONAL SERVICE
 ACCOUNTS DUE WHEN RENDERED



BONDAR-CLEGG

49-2220

BILLITON CANADA LIMITED
 C/O CEDAR MOTEL
 P.O. BOX 843,
 DRYDEN, ONTARIO.
 P8N 2Z5

Invoice : 111725, Page 1

Date : 11-JUN-85

Report No: 015-1304

Project : NONE

Reference: P.O.# 1943

15 Analyses of Silver	at \$ 2.00	\$ 30.00		
Subtotal		\$ 30.00	\$	30.00
15 Analyses of Gold	at \$ 8.00	\$ 120.00		
Subtotal		\$ 120.00	\$	120.00
15 Analyses of Tungsten	at \$ 4.75	\$ 71.25		
Subtotal		\$ 71.25	\$	71.25
Sample Preparation				
15 Samples of CRUSH, PULVERIZE -200	at \$ 3.25	\$ 48.75		
Subtotal		\$ 48.75	\$	48.75

Invoice Total: \$ 270.00 Cdn

RECEIVED
 JUN 17 1985

OK. For Payment ASG.

ANALYSES	QTY.
RENDERED	QTY.
	PRICE
CHECKING ACCURACY	
RENDERER INITIAL <i>ASG</i>	
INVOICE NO. <i>9680602</i>	
APPROVED FOR PAY <i>[Signature]</i>	
RENDERED	

**THIS IS A PROFESSIONAL SERVICE
 ACCOUNTS DUE WHEN RENDERED**

BILLITON CANADA LTD.



THE TORONTO-DOMINION BANK
YORK ST. & 141 ADELAIDE ST. W.
TORONTO, ONTARIO M5H 3L5

01-6141

NUMBER 1
CURRENT ACCOUNT

DATE July 2 19 68

PAY THE SUM OF Nine hundred and forty two ⁰⁰/100 DOLLARS \$ 942.00

TO Bondar-Clegg & Company Ltd.
THE 3420 Carotek Road
ORDER Ottawa, Ontario
OF R1J 8Y5

BILLITON CANADA LTD.

NON NEGOTIABLE

AUTHORIZED SIGNATURES

DESCRIPTION			AMOUNT
7	200	CRUSH, PULVERIZE	29.25
		Subtotal	29.25

BILLITON CANADA LTD.

7 samples of CRUSH, PULVERIZE - 200 at \$ 3.25 = 29.25
 Subtotal \$ 29.25
 Invoice Total: 156.50 Cdn

INVOICE TO BE PAID
+ I.P.O.

TO CAROL PLEASE

~~As per attached~~
~~invoice~~ the
 invoice indicates
 P.O. 1943 - however
 I have this P.O.
 invoice marked
 complete - Can you
 shed some light?

BILLITON CANADA LIMITED
 141 ADELAIDE STREET WEST
 SUITE 1006
 TORONTO, ONTARIO
 M5H 3L9

Invoice : 111859, Page 1

Date : 21-JUN-85

Report No: 015-1455

Project : NONE

Reference: F.O.# 1945

9 Analyses of Silver	at \$ 2.00	\$ 18.00	
2 Analyses of Copper	at \$ 1.00	\$ 2.00	
2 Analyses of Zinc	at \$ 1.00	\$ 2.00	
Subtotal		\$ 22.00	\$ 22.00
9 Analyses of Gold	at \$ 8.00	\$ 72.00	
Subtotal		\$ 72.00	\$ 72.00
7 Analyses of Tungsten	at \$ 4.75	\$ 33.25	
Subtotal		\$ 33.25	\$ 33.25
Sample Preparation			
9 Samples of CRUSH, PULVERIZE -200	at \$ 3.25	\$ 29.25	
Subtotal		\$ 29.25	\$ 29.25

Invoice Total:

\$ 156.50 Cdn

ACCOUNT NUMBER: 3600900	
COGS REC'D.	QTY.
ORDER SHIPPED	QTY.
	PRICE
MATHS APPROX CENTRAL INQUIRY	
COGS	968 06 02
APPROVED FOR PAY	
CHEQUE No.	

BILLITON CANADA LIMITED
 141 ADELAIDE STREET WEST
 SUITE 1006
 TORONTO, ONTARIO
 M5H 3L9

Invoice : 111880, Page 1

Date : 21-JUN-85

Report No: 015-1411
 Project : NONE
 Reference: P.O. # 1944

44 Analyses of Silver	at \$ 2.00	\$ 88.00	
7 Analyses of Copper	at \$ 1.00	\$ 7.00	
7 Analyses of Zinc	at \$ 1.00	\$ 7.00	
Subtotal		\$ 102.00	\$ 102.00
1 Analyses of Beryllium	at \$ 9.50	\$ 9.50	
1 Analyses of Lithium	at \$ 0.00	\$ 0.00	
1 Analyses of Niobium	at \$ 0.00	\$ 0.00	
1 Analyses of Tantalum	at \$ 0.00	\$ 0.00	
Subtotal		\$ 9.50	\$ 9.50
44 Analyses of Gold	at \$ 8.00	\$ 352.00	
Subtotal		\$ 352.00	\$ 352.00
37 Analyses of Tungsten	at \$ 4.75	\$ 175.75	
Subtotal		\$ 175.75	\$ 175.75
Sample Preparation			
45 Samples of CRUSH, PULVERIZE -200	at \$ 3.25	\$ 146.25	
Subtotal		\$ 146.25	\$ 146.25
Invoice Total:			\$ 785.50 Cdn

ACCOUNTS PAYABLE: 3600900	
GOODS REC'D.	QTY.
ORDER CHECKED	QTY.
	PRICE
MATH ACCURACY	
CHECKED INITIAL	
CODING	<i>J.B.</i>
	<i>968 06 02</i>
APPROVED FOR PAY	
<i>[Signature]</i>	
CHEQUE No.	

**THIS IS A PROFESSIONAL SERVICE
 ACCOUNTS DUE WHEN RENDERED**

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken As Listed

Total Number of Samples 108
Type of Sample Rock
(Nature of Material)
Average Sample Weight 2 lbs
Method of Collection Grab

Soil Horizon Sampled _____
Horizon Development _____
Sample Depth _____
Terrain _____

Drainage Development _____
Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis -200

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

(Cu) Pb, (Zn) Ni, Co, (Ag) Mo, As, (circle)

Others Au, W

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (108 tests)

Name of Laboratory Bondar Clegg & Co. Ltd.

Extraction Method As per attached

Analytical Method As per attached

Reagents Used As per attached

General _____

TROUTFLY LAKE CLAIMS

List of Claim Numbers

K 639047	K 639070	K 639098	K 639121
K 639048	K 639071	K 639099	K 639122
K 639049	K 639072	K 639100	K 639123
K 639050	K 639073	K 639101	K 645073
K 639051	K 639074	K 639102	K 645074
K 639052	K 639075	K 639103	K 645075
K 639053	K 639076	K 639104	K 645076
K 639054	K 639077	K 639105	K 645077
K 639055	K 639078	K 639106	K 645078
K 639056	K 639079	K 639107	K 645079
K 639057	K 639080	K 639108	K 645080
K 639058	K 639081	K 639109	K 645081
K 639059	K 639087	K 639110	K 645082
K 639060	K 639088	K 639111	K 645083
K 639061	K 639089	K 639112	K 645084
K 639062	K 639090	K 639113	K 645104
K 639063	K 639091	K 639114	K 645105
K 639064	K 639092	K 639115	K 645106
K 639065	K 639093	K 639116	K 645107
K 639066	K 639094	K 639117	K 645108
K 639067	K 639095	K 639118	K 645109
K 639068	K 639096	K 639119	K 645110
K 639069	K 639097	K 639120	K 645111

Mining Lands Section

File No 2-8677

Control Sheet

TYPE OF SURVEY

GEOPHYSICAL

GEOLOGICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

* Line spacing = 500 metres!

<LAVAL>

L.D.

Lgd

Dennis

Signature of Assessor

Dec. 9/66

Date

1986 01 10

Your File: 223-85
Our File: 2.8677

Mining Recorder
Ministry of Northern Development and Mines
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Notice of Intent dated December 18, 1985
Geological Survey and Data for Assaying
on Mining Claims K 639047, et al, in
Laval Township

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

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

DK/mc

cc: Billiton Canada Ltd
Suite 1006
141 Adelaide Street West
Toronto, Ontario
M5H 3L9

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

Mr. J.A. Goodwin
Billiton Canada Ltd
Suite 1006
141 Adelaide Street
Toronto, Ontario
M5H 3L9

Resident Geologist
Kenora, Ontario

Encl.



Recorded Holder
BILLITON CANADA LIMITED.

Township or Area
LAVAL TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological <u>31</u> days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	K.-639047 to 72 incl. 639075 to 77 incl. 639080 - 81 639087 to 123 incl. 645073 to 84 incl. 645104 to 111 incl.

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

[Empty box for special credits]

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

K.-639073-74
639078-79

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.



Recorded Holder BILLITON CANADA LIMITED
Township or Area LAVAL TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed																		
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	<p>\$1955.00 SPENT ON ANALYSES OF SAMPLES TAKEN FROM MINING CLAIMS:</p> <table> <tr> <td>K. -639050</td> <td>639108</td> </tr> <tr> <td>639052</td> <td>639110</td> </tr> <tr> <td>639055</td> <td>639113 to 16 incl.</td> </tr> <tr> <td>639059-60</td> <td>639118</td> </tr> <tr> <td>639065</td> <td>645073 to 81 incl.</td> </tr> <tr> <td>639089-90</td> <td>645083-84</td> </tr> <tr> <td>639095</td> <td>645104 to 07 incl.</td> </tr> <tr> <td>639098</td> <td>645109</td> </tr> <tr> <td>639102 to 105 incl.</td> <td>639100</td> </tr> </table> <p>130 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76 (6) OF THE MINING ACT.</p>	K. -639050	639108	639052	639110	639055	639113 to 16 incl.	639059-60	639118	639065	645073 to 81 incl.	639089-90	645083-84	639095	645104 to 07 incl.	639098	645109	639102 to 105 incl.	639100
K. -639050	639108																		
639052	639110																		
639055	639113 to 16 incl.																		
639059-60	639118																		
639065	645073 to 81 incl.																		
639089-90	645083-84																		
639095	645104 to 07 incl.																		
639098	645109																		
639102 to 105 incl.	639100																		

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

No credits have been allowed for the following mining claims

<input type="checkbox"/> not sufficiently covered by the survey	<input type="checkbox"/> 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.



Jan 2, 1986

1985 12 18

Your File: 223-85
Our File: 2.8677

Mining Recorder
Ministry of Northern Development and Mines
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

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

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

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

Encls.

LSK-DK:bc

cc: Billiton Canada Ltd.
1006-141 Adelaide Street West,
Toronto, Ont. M5H 3L9

Mr. G. H. Ferguson
Mining & Lands Commission

cc: Mr. J. A. Goodwin
Billiton Canada Ltd.
1006-141 Adelaide Street,
Toronto, Ont. M5H 3L9



Ministry of
Natural
Resources

Ontario

Notice of Intent
for Technical Reports

1985 12 18

2.8677/223-85

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

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

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

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



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

R.P.
28677
Mining Act

Instructions: Please type or print.
If number of mining claims covered exceeds space on the form, attach list.
Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." column.
Do not use shaded area below.

Jan 16
#229-85

Type of Survey(s): **GEOLOGICAL**

Claim Holder(s): **BILLITON CANADA LTD.**

Address: **1006-141 ADELAIDE STREET WEST, TORONTO, ONTARIO M5H 3L9**

Survey Company: **AS ABOVE**

Name and Address of Author (of Geo Technical report): **J.A. GOODWIN, ADDRESS AS ABOVE**

Township or Area: **LAVAL TWP. M-3370**

Prospector's Licence No.: **T.1535**

Date of Survey (from & to): **26 05 85** to **19 06 85**
Day | Mo. | Yr. | Day | Mo. | Yr.

Total Miles of line cut: **85 km**

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	40
	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 Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
	AS PER			K645104	6.5
	ATTACHED			K645105	6.5
	LIST			K645106	6.5
				K645107	6.5
	GEOLOGICAL CREDITS			K645108	6.5
	TO BE APPLIED			K645109	6.5
	EVENLY OVER			K645110	6.5
	ENTIRE 92 CLAIMS			K645111	6.5
	EXPENDITURE DAYS				
	CREDITS TO BE				
	APPLIED AS FOLLOWS:				
	K645073	6.5			
	K645074	6.5			
	K645075	6.5			
	K645076	6.5			
	K645077	6.5			
	K645078	6.5			
	K645079	6.5			
	K645080	6.5			
	K645081	6.5			
	K645082	6.5			
	K645083	6.5			
	K645084	6.5			

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DEC 04 1985

MINING LANDS SECTION

POST-MARKED

No V
21/85

See original work statements.

Expenditures (excludes power stripping)

Type of Work Performed: **ANALYSES**

Performed on Claim(s): **AS LISTED**

Calculation of Expenditure Days Credits

Total Expenditures: **\$ 1,955.00** ÷ Total Days Credits: **15** = **130**

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.

639047

Total number of mining claims covered by this report of work: **92**

Date: **19.11.85**

Recorded (Holder or Agent Signature): *[Signature]*

For Office Use Only

Total Days Credits Recorded: **3810**

Date Recorded: **Nov 26/85**

Date Approved as 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: **J.A. Goodwin, Billiton Canada Ltd., 1006, 141 Adelaide Street West, Toronto, Ont. M5H 3L9**

Date Certified: **19.11.85**

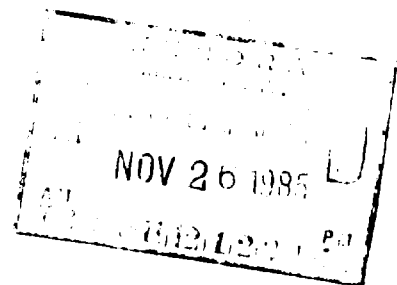
Certified by (Signature): *[Signature]*

223-85

TROUTFLY LAKE CLAIMS

List of Claim Numbers

K 639047	K 639070	K 639098	K 639121
K 639048	K 639071	K 639099	K 639122
K 639049	K 639072	K 639100	K 639123
K 639050	K 639073	K 639101	K 645073
K 639051	K 639074	K 639102	K 645074
K 639052	K 639075	K 639103	K 645075
K 639053	K 639076	K 639104	K 645076
K 639054	K 639077	K 639105	K 645077
K 639055	K 639078	K 639106	K 645078
K 639056	K 639079	K 639107	K 645079
K 639057	K 639080	K 639108	K 645080
K 639058	K 639081	K 639109	K 645081
K 639059	K 639087	K 639110	K 645082
K 639060	K 639088	K 639111	K 645083
K 639061	K 639089	K 639112	K 645084
K 639062	K 639090	K 639113	K 645104
K 639063	K 639091	K 639114	K 645105
K 639064	K 639092	K 639115	K 645106
K 639065	K 639093	K 639116	K 645107
K 639066	K 639094	K 639117	K 645108
K 639067	K 639095	K 639118	K 645109
K 639068	K 639096	K 639119	K 645110
K 639069	K 639097	K 639120	K 645111



639047



Billiton Metals Canada Inc.

Suite 1006
141 Adelaide Street West
Toronto, Ontario M5H 3L9

Telephone (416) 362-6624
Telex 06-23519

RECEIVED	
LAND	
MANAGEMENT BRANCH	
NOV 28 '85	
PREPARE REPLY	<input type="checkbox"/>
COMMENTS PLEASE	<input type="checkbox"/>
BY	
S. E. YUNDT	
J. R. MORTON	
J. C. SMITH	
W. P. BROOK	
M. J. HOGAN	
D. W. SCOTT	
S. KEEN	
Return To: R.6643	

November 27, 1985

The Director
Land Management Branch
Whitney Block, Room 6643
Queens Park
Toronto ON
M7A 1W3

Dear Sir:

Please find enclosed two (2) copies of the assessment report on the Troutfly Lake Property, District of Kenora Ont.

Yours sincerely,

J.A. Goodwin
Senior Geologist

JAG:ei
Enc.

Analysis

223-85

[Handwritten signature]

TROUTFLY LAKE CLAIMS
List of Claim Numbers

K 639047 $\frac{1}{4}$	K 639070 $\frac{1}{4}$	K 639098 $\frac{1}{2}$	K 639121 $\frac{1}{4}$
K 639048 $\frac{1}{4}$	K 639071 $\frac{1}{4}$	K 639099 $\frac{1}{4}$	K 639122 $\frac{1}{4}$
K 639049 $>\frac{1}{4}$	K 639072 $\frac{1}{2}$	K 639100 $\frac{1}{4}$	K 639123 $\frac{1}{4}$
K 639050 $>\frac{1}{4}$	K 639073 0	K 639101 $\frac{1}{4}$	K 645073 $\frac{1}{4}$
K 639051 $\frac{1}{4}$	K 639074 0	K 639102 $\frac{1}{2}$	K 645074 $\frac{1}{2}$
K 639052 $\frac{1}{4}$	K 639075 $\frac{3}{4}$	K 639103 $\frac{1}{4}$	K 645075 $\frac{1}{4}$
K 639053 $\frac{1}{4}$	K 639076 $\frac{1}{2}$	K 639104 $\frac{1}{4}$	K 645076 $\frac{1}{4}$
K 639054 $\frac{1}{4}$	K 639077 $\frac{3}{4}$	K 639105 $\frac{1}{4}$	K 645077 ✓
K 639055 $\frac{1}{4}$	K 639078 0	K 639106 $\frac{1}{4}$	K 645078 $\frac{1}{4}$
K 639056 $\frac{1}{4}$	K 639079 0	K 639107 $>\frac{1}{4}$	K 645079 $\frac{1}{4}$
K 639057 $\frac{1}{4}$ ✓	K 639080 $\frac{3}{4}$	K 639108 $>\frac{1}{4}$	K 645080 $\frac{1}{4}$
K 639058 $\frac{1}{4}$	K 639081 $\frac{1}{2}$	K 639109 $>\frac{1}{4}$	K 645081 $\frac{1}{4}$
K 639059 $<\frac{1}{2}$	K 639087 $\frac{1}{4}$ ✓	K 639110 $\frac{1}{4}$	K 645082 $\frac{1}{4}$
K 639060 $\frac{1}{2}$	K 639088 $\frac{1}{4}$	K 639111 $\frac{1}{4}$	K 645083 $\frac{1}{4}$
K 639061 $\frac{1}{4}$	K 639089 $\frac{1}{4}$	K 639112 $\frac{1}{4}$	K 645084 $\frac{1}{4}$
K 639062 $\frac{1}{4}$	K 639090 ✓	K 639113 $\frac{1}{4}$	K 645104 ✓
K 639063 $\frac{1}{2}$	K 639091 $\frac{1}{4}$	K 639114 $\frac{1}{4}$	K 645105 $\frac{1}{4}$
K 639064 $\frac{1}{4}$	K 639092 \sim ✓	K 639115 $\frac{1}{2}$	K 645106 $\frac{1}{4}$
K 639065 $\frac{1}{4}$	K 639093 $\frac{1}{2}$	K 639116 $\frac{1}{4}$	K 645107 \sim ✓
K 639066 $>\frac{1}{2}$	K 639094 $\frac{1}{2}$	K 639117 $\frac{1}{4}$	K 645108 $\frac{1}{4}$
K 639067 $\frac{3}{4}$	K 639095 $>\frac{3}{4}$	K 639118 $\frac{1}{4}$	K 645109 $\frac{1}{4}$
K 639068 $\frac{3}{4}$	K 639096 $\frac{1}{2}$	K 639119 $\frac{1}{4}$	K 645110 ✓
K 639069 $\frac{1}{4}$ ✓	K 639097 $\frac{1}{4}$	K 639120 $\frac{1}{4}$	K 645111 $\frac{1}{4}$

$(90 \times 40) \div (90 + 10\frac{1}{4}) = 31 \text{ days.}$

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 NOV 26 1985
 639047

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400' surface rights reservation along the shores of all lakes and rivers

SAND and GRAVEL

- ① GRAVEL File 156744
- ② GRAVEL File 44049
- ③ MTC PIT N9112

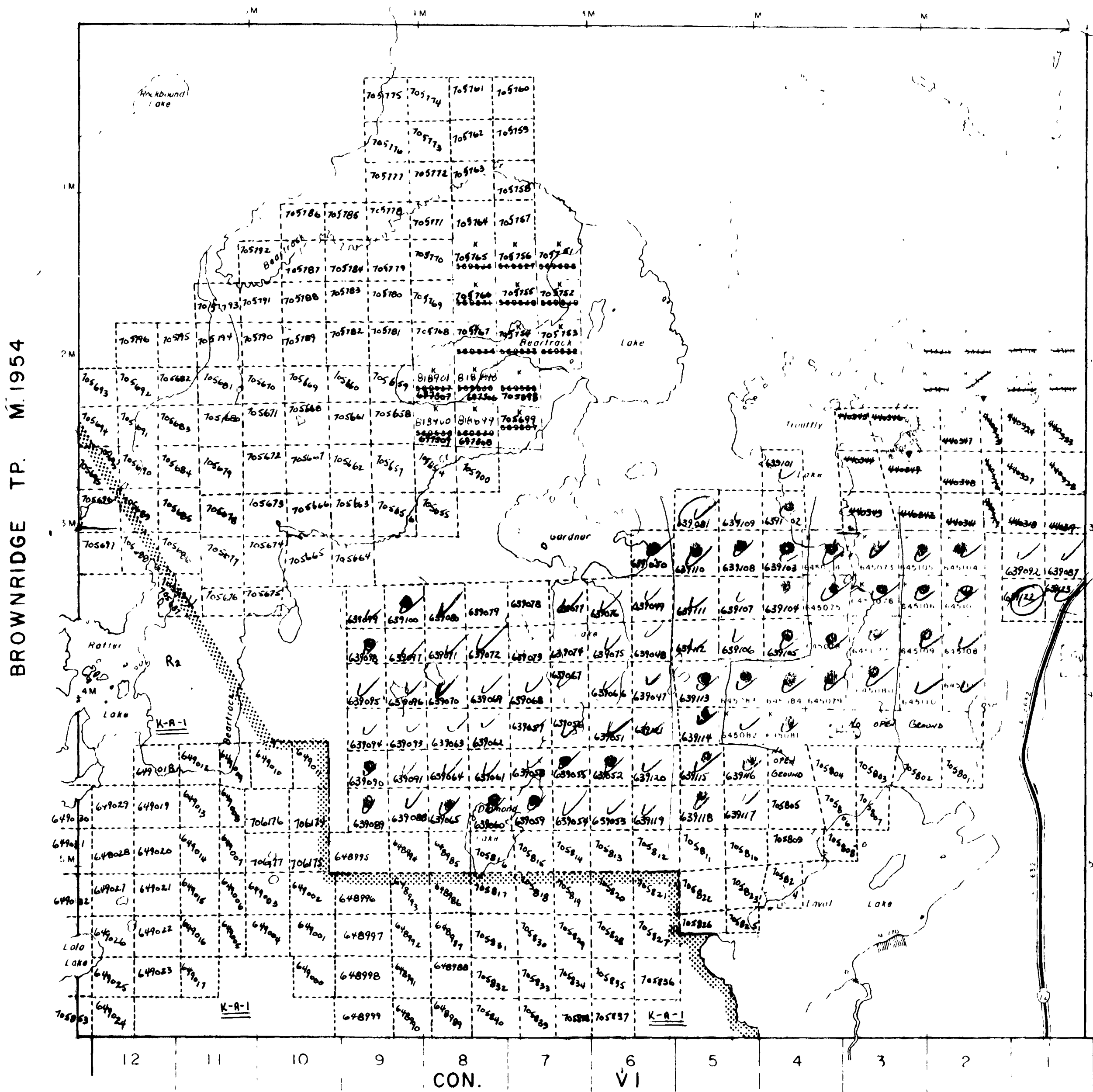
AREAS WITHDRAWN FROM STAKING

S.R. - SURFACE RIGHTS M.R. - MINING RIGHTS

Section Date Disposition File

R2 00M w 37/83 S+MR Au623/83

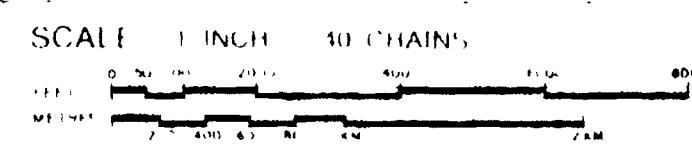
WEBB TP. M. 1874



- BOUNDARY AL. BOUND. N.
- BOUND. ROSS.
- TRAILS
- STAKE LINE
- TOWNSHIP BY LINE
- LOT MINING CLAIM
- ON CORNER LINE
- OF LINES
- PARCEL BOUNDARY
- MINING CLAIMS
- RAILWAY AND HIGHWAY
- UTILITY LINES
- NON-FERROUS STREAM
- FLOODING OF FLOOD CONTROL
- RESERVATION
- ORIGINAL SURFACE
- RAILWAY
- MINI

DISPOSITION OF CROWN LANDS

- TYPE OF DOCUMENT
- PATENT, LEASE & MINING RIGHTS
- LEASE RIGHTS ONLY
- MINING RIGHTS ONLY
- LEASE SURFACE & MINING RIGHTS
- SURFACE RIGHTS ONLY
- MINING RIGHTS ONLY
- AGENCY OF OCCUPATION
- CROWN LAND SALE
- ORDERING CANCELLED
- RESERVATION
- CANCELLED
- SAND & GRAVEL



TOWNSHIP *Laval*

LAVAL

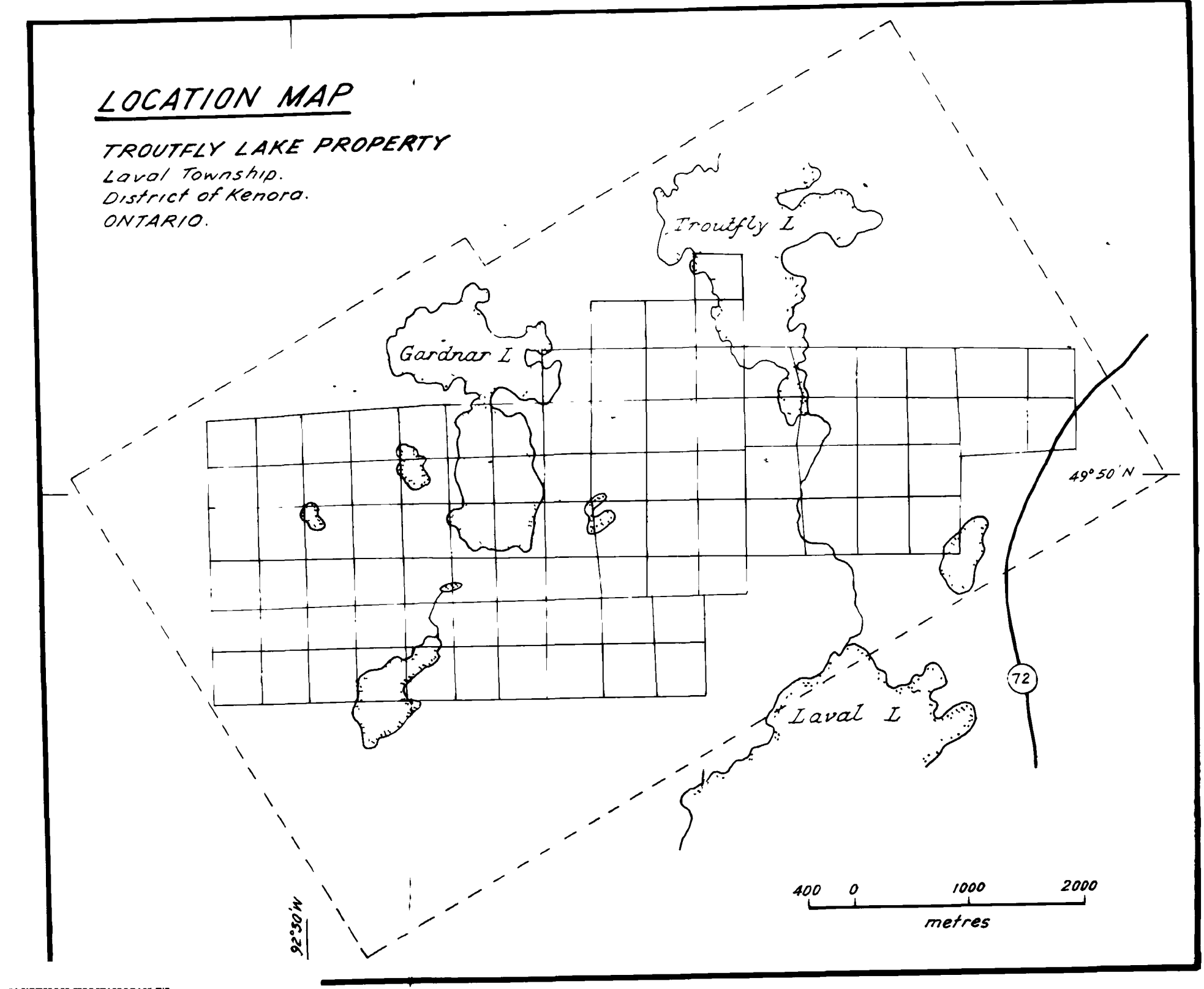
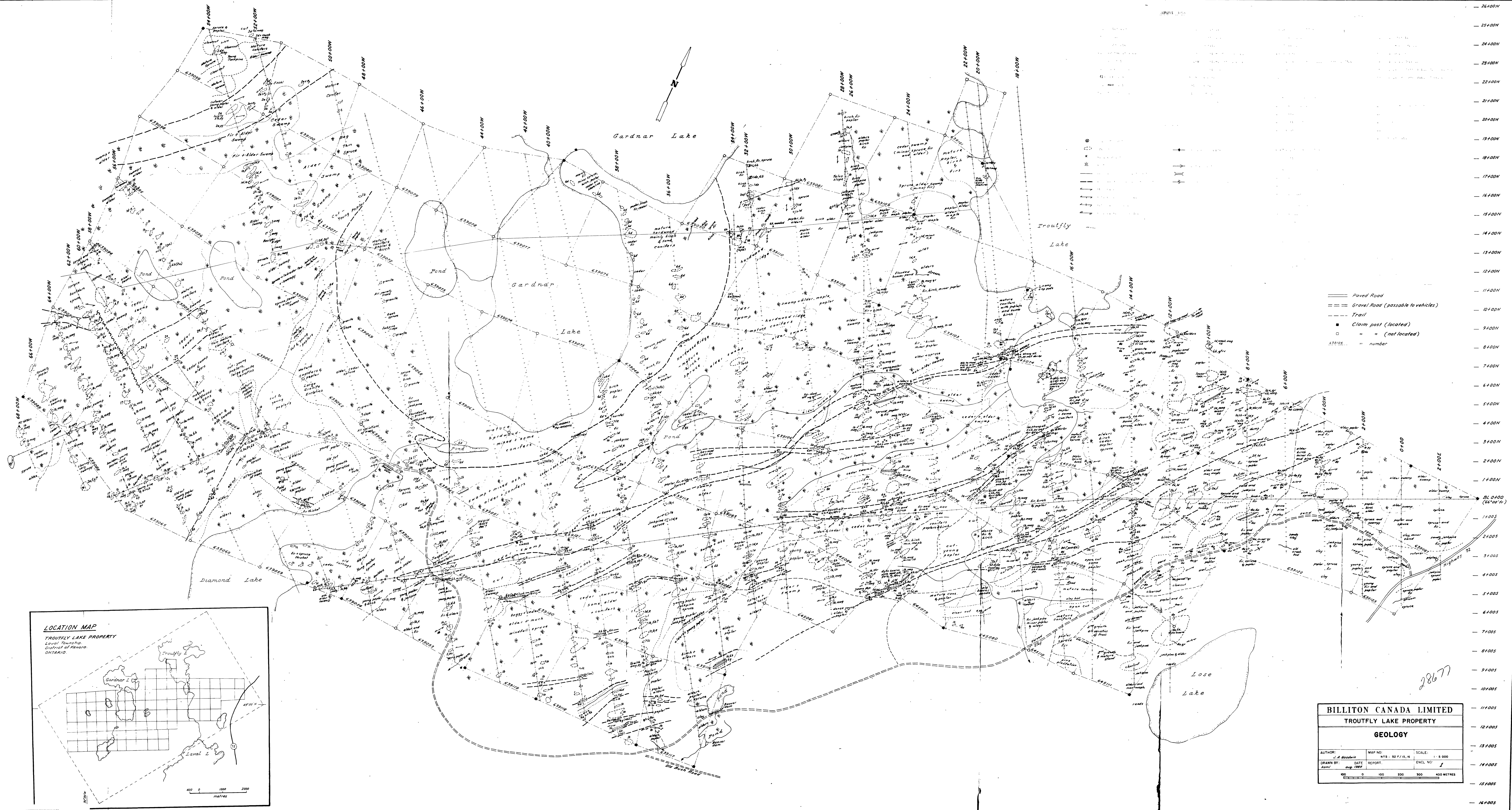
DISTRICT **KENORA**

MINING DIVISION **KENORA**

Ministry of Natural Resources
 Ontario Surveys and Mapping Branch
 Date: _____ Plan No: **M. 3370**

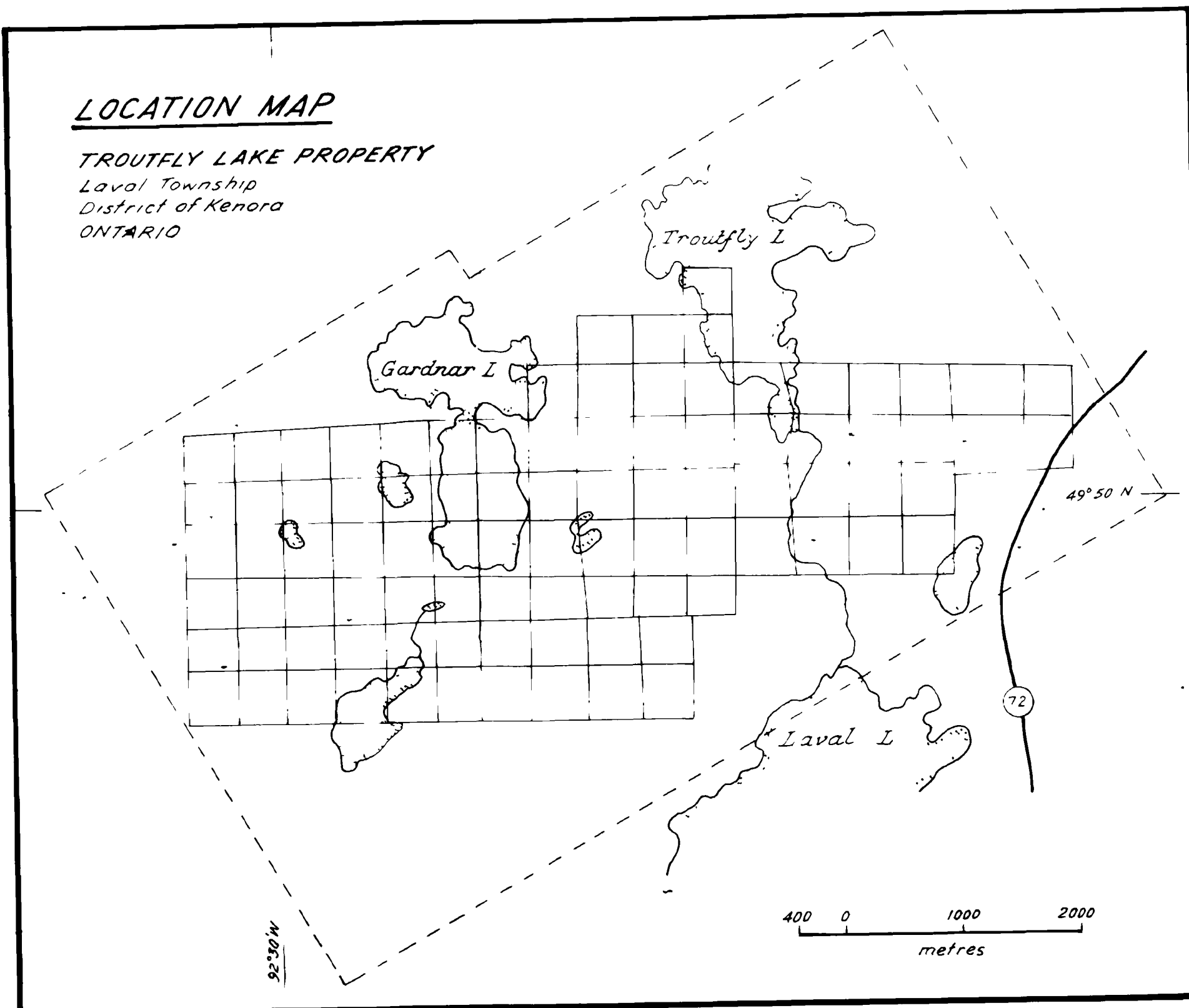
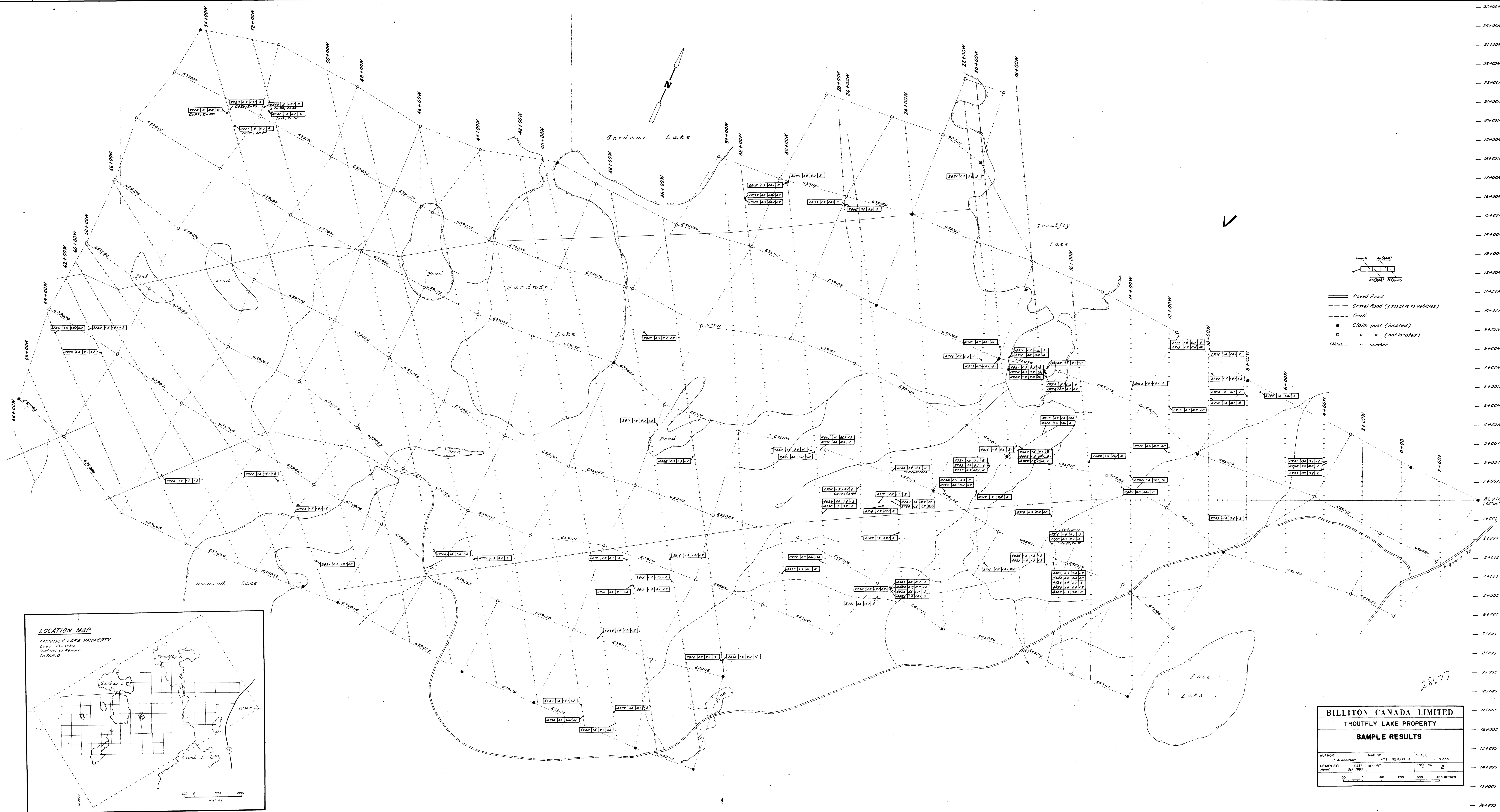
200





BILLITON CANADA LIMITED			
TROUTFLY LAKE PROPERTY			
GEOLOGY			
AUTHOR: J.A. Galloway	MAP NO. 475	DATE 22.7.15.14	SCALE 1:5,000
DRAWN BY: aug. JMS	DATE REPORT	ENCL. NO. 1	

28677



28677

BILLITON CANADA LIMITED			
TROUTFLY LAKE PROPERTY			
SAMPLE RESULTS			
AUTHOR: J. A. Goodwin	MAP NO: NTS: 82 F/13, 16	SCALE: 1:5 000	
DRAWN BY: Paul	DATE: Oct 1987	REPORT: ENCL NO: 2	