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REPORT ON
CALDER-BOUSQUET GOLD PROPERTY
LAVAL TWP., KENORA MINING DIVISION
NORTHWESTERN ONTARIO
FOR
MISTANGO CONSOLIDATED RESOURCES LTD.

BY

A.C.A. HOWE INTERNATIONAL LTD.

Vernon M. Shein

26252

Report No. 492
March 20, 1984

Toronto, Canada

A. C. A. HOWE INTERNATIONAL LIMITED

RECEIVED

APR 18 1984

MISTANGO CONSOLIDATED RESOURCES LTD.



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CERTIFICATE

Vernon Morgan Shein, B.Sc.

MAP

Total Magnetic Field Strength

SUMMARY

During the period of February 1984, A.C.A. Howe International Limited performed a geomagnetic survey of the Calder-Bousquet Gold Property for Mistango Consolidated Resources Limited.

The surveyed property consists of 20 contiguous unpatented mining claims located in Laval Township, Kenora Mining Division, Ontario.

The target of the gold program was gold mineralization hosted in quartz veins within a zone of numerous, parallel quartz-feldspar porphyry dikes.

Three large magnetic anomalies were identified. However further work is necessary in order to evaluate the property. In this regard a two phase exploration program costing \$133,835.63 is recommended. Phase One would comprise surface work designed to assess surface gold showings and delineate drill targets and cost \$49,896.00. Phase Two would comprise diamond drilling and cost \$83,939.63.

1. INTRODUCTION

In February, 1984, A.C.A. Howe International Limited was commissioned by Mistango Consolidated Resources Limited to conduct a geomagnetic survey of the Calder-Bousquet property. The object of this survey was to define and delineate potential zones of gold mineralization.

Results of this geophysical work are presented in this report.

2. PROPERTY DESCRIPTION

The Calder-Bousquet property consists of twenty contiguous unpatented mining claims located approximately 16 miles (in a straight line), northeast of Dryden.

The claims are listed along with recording dates as follows:

<u>Claim Number</u>	<u>Date Staked</u>	<u>Claim Number</u>	<u>Date Staked</u>
K645073	25/05/82	K645083	25/05/82
K645074	"	K645084	"
K645075	"	K645104	"
K645076	"	K645105	"
K645077	"	K645106	"
K645078	"	K645107	"
K645079	"	K645108	"
K645080	"	K645109	"
K645081	"	K645110	"
K645082	"	K645111	"

3. LOCATION AND ACCESS

The property is located approximately 16 miles (in a straight line), northeast of Dryden, Northwestern Ontario. Dryden is approximately midway between Winnipeg, Manitoba and Thunder Bay, Ontario, and has a population of 8,000. Dryden has a well developed infrastructure, being on the Trans Canada highway and the Canadian Pacific Railroad, and has regular jet service provided by Nordair. There is ready access to natural gas and hydroelectric power in the region.

Access to the property is achieved by travelling east on the Trans Canada highway for 17 miles from Dryden to Dinorwic, north from Dinorwic on highway 72 for 12 miles, and then west on secondary roads to Troutfly Lake and Gardnar Lake (both on the property area), for 1 to 2 miles.

4. HISTORY

The portion of the claim group in the immediate vicinity of Troutfly Lake (20 claims) was investigated in 1950 and 1951 by Calder-Bousquet Gold Mines Ltd. and Eclund Gold Mines Ltd. These companies undertook surface investigations including geological mapping, trenching, sampling and diamond drilling totalling 1101 feet in 11 holes. The M.N.R. Open File Report - 5332, appendix F, reports the best gold value obtained was 0.27 oz. gold/ton and the average was 0.15 oz. gold/ton. Widths of the gold bearing intersections are not indicated, however the width of the zone hosting the intersections is reported to attain 50 feet.

A grab sample from surface work assayed 0.12 oz. gold/ton.

Two drill holes totalling 480 feet were drilled in 1956 and intersected quartz-carbonate stringers and minor sulphides in andesite-gabbro country rock (M.N.R., Mineral Deposit Circular 16, p. 25). It is not reported if the core was assayed for gold or who drilled the holes.

Mr. J. Sweet states that no work was done on the property for gold since that date. The writer did not research the M.N.R. assessment files and therefore can not verify this statement.

5. GEOLOGY

The property is underlain by mafic to intermediate volcanics, felsic to intermediate volcanics and meta-sediments all of which trend in a northeasterly direction. These units have been intruded by a quartz-monzonite stock, granitic dikes and quartz-feldspar porphyry dikes. The quartz-feldspar porphyry dikes are host to gold bearing quartz veins and sulphides. Wallrock alteration comprising carbonatization and silicification is reported (John H. Low 1951), to occur in specific locations within the claim group - particularly adjacent to the dikes. A grab sample from one of these altered zones assayed 0.12 oz. gold/ton.

Fault structures trend predominately northeast with a subordinate set striking east (Low, 1951).

The geological setting of the property is very similar to, and on strike with the Goldlund Mine 6 miles to the northeast.

The reader is referred to the report by Low (1951), for a more comprehensive report on the property's geology.

6. MINERALIZATION

The main gold showing is located in the eastern portion of the property. It is reported (M.N.R. Mineral Deposit Circular 16, appendix F), to comprise a zone of numerous, parallel mineralized quartz-feldspar porphyry dikes trending northeast. The gold is contained in quartz filled fractures cross cutting the quartz-feldspar porphyry dikes, and is accompanied by pyrite, galena, scheelite and chalcopyrite. Drill core assays (1950), averaged 0.15 oz. gold/ton with the maximum value being 0.27 oz. gold/ton. Although the width of the mineralized intersections are not reported, the mineralized zone attains widths up to 50 feet.

The M.N.R. Open File Report - 5332, appendix F, indicates a potential ore body (classified speculative), measuring 100 ft. x 50 ft. x 100 ft. (depth) containing 41,500 tons of ore grading 0.15 oz. gold/ton.

The nature of the mineralization and the geological setting are very similar to the Goldlund Mine located 6 miles to the northeast.

Copper-zinc-silver mineralization occurs in the southwest portion of the property, however the writer has no information regarding grades or tonnages.

7. PRESENT WORK

The work program on the Calder-Bousquet property comprised grid flagging and a geomagnetic survey. The results of the work is illustrated on the Total Magnetic Field Strength Map found at the rear of this report.

The grid was flagged by K. Baldwin with compass and belt chain. The coordinates of each station were marked on the flagging for future reference.

Numerous magnetic anomalies resulted in moderate to severe compass needle deflections. Many stations were aligned by back sighting due to compass deflections.

The location of the claim posts were recorded as they were encountered during the geophysical survey.

The total magnetic field strength was measured using a Barringer Proton Precession magnetometer. Line spacing was 100 yards and stations were located at 100 foot intervals.

8. GEOPHYSICAL RESULTS

A. Introduction

In February, 1984, A.C.A. Howe International Ltd. performed a geophysical survey for Mistango Consolidated Resources Ltd. on their Calder-Bousquet property.

The work consisted of a ground magnetics survey using a Barringer PPM. The field strength was measured in nanotesla (nT). Values ranged from 58000 nT to 69000 nT with an average background value of 59700 nT.

B. Discussion

Claims 645107 to 645111 inclusive in the southeast corner of the property display a flat magnetic response. There are a few isolated anomalies in the range of 62500 nT.

Over the remainder of the property, the field strength tends to vary a great deal with differences between adjacent stations ranging from 200 - 2000 nT.

The magnetic highs and compass deflections tend to occur at, or close to, the crests of northeast trending topographic ridges.

Compass deflections also occurred whenever the meandering creek was encountered.

Three major northeast trending magnetic anomalies have been contoured on the Field Strength Map.

The largest anomaly is located at claims K645081, K645079 and K645078. It consists of four colinear highs, trending 035° . From southwest to northeast, its highs are 68087 nT, 68500 nT, 69000 nT and 63700 nT. It is 4300 feet long and up to 1050 feet wide. It is open to the south and east.

A second anomaly is located at the boundary between claims K645104 and K645107.

It is 3000 feet long and up to 300 feet wide. Trending 035° , it has a maximum field strength of 63694 nT.

The third anomaly is located on claim K645073. It is 1700 feet long, 200 feet wide and trends 050° . It has a maximum value of 62610 nT.

9. CONCLUSIONS

Based upon the magnetic survey results, the Calder-Bousquet property warrants further exploration.

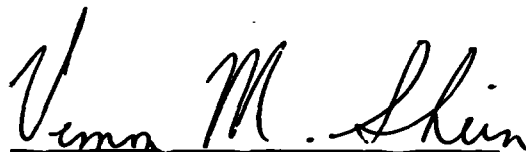
10. RECOMMENDATIONS

- (a) Acquire mining rights for the ground immediately east and south of claim K645081.
- (b) Undertake a two phase exploration program designed to test the property's gold potential. The first phase would constitute surface work, including extensive outcrop mapping, sampling and assaying as well as geophysics and geochemistry. The cost of this phase would be approximately \$49,896.00. The second phase would constitute a diamond drilling program to test drill targets delineated in phase one and cost approximately \$83,939.63.

CERTIFICATE

I, Vernon Morgan Shein of 36 Dianne Drive, St. Catherines, Ontario, hereby certify that:

1. I am a geologist and am currently acting on a contract basis for A.C.A. Howe International Limited, Mining and Geological Consultants, with offices at Suite 800, 159 Bay Street, Toronto, Ontario, M5J 1J7.
2. I am a graduate of Concordia University, Montreal, Quebec with a Bachelor of Science degree (1982); specialization Geology.
3. I have no interest in the Calder-Bousquet gold property owned by Mistango Consolidated Resources Limited, nor do I anticipate such interest.
4. This report is based on geophysical work performed by myself and Mr. Ken Baldwin during the months of February and March, 1984.


Vernon M. Shein
Vernon M. Shein, B.Sc.



Ministry of
Natural
Resources

FWM
Report of Work
(Geophysical,
Geochemical)



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May 7th #64-84
type or print. Number of mining claims traversed space on this form, attach a list of days credits calculated in the "Expend. Days Cr." column use shaded areas below.

Type of Survey(s) **PROTON PRECESSION MAGNETOMETER** | **900 LAVAL TWP M-337C**

Claim Holder(s) **DAVID PETRUNKA R-25944 + W.M. P. MOREHOUSE** | Prospector's Licence No. **E.22234**
MISTANGO CONSOLIDATED RESOURCES LTD

Address **2 CARLTON, SUITE 901, TORONTO, M5B 1J3**

Survey Company **A.C.A. HOWE INTERNATIONAL LTD** | Date of Survey (from & to) **21 Day | 02 MO. | 84 Yr. | 04 Day | 03 MO. | 84 Yr.** | Total Miles of line Cut **24 (FLAGGED)**

Name and Address of Author (of Geo-Technical report) **VERNON M. SHEIN 36 DIANNE DR. ST. CATHARINES, ONT. L2P 3R7**

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

Mining Claims Traversed (List in numerical sequence)

Prefix	Mining Claim Number	Expend. Days Cr.	Prefix	Mining Claim Number	Expend. Days Cr.
K	645073				
	645074				
	645075				
	645076				
	645077				
	645078				
	645079				
	645080				
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	645104				
	645105				
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	645110				
	645111				

RECEIVED
MINING LANDS SECTION
MAR 7 1984
KENORA MINING DIV.
MAR 7 1984
7 8 9 10 11 12 1 2 3 4 5

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits
Total Expenditures \$ ÷ 15 = Total Days Credits

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

Date **Mar 5/84** | Reported Holder or Agent (Signature) **Vernon Shein**

For Office Use Only
Total Days Credits Recorded **400** | Mining Claim Number **645073**
Date Recorded **MAR 7/84** | Date Approved as Recorded **84.9.13**
Signature: **[Signature]**

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

Name and Postal Address of Person Certifying
VERNON M. SHEIN 36 DIANNE DR. ST. CATHARINES ONT. L2P 3R7
Date Certified **Mar 5, 84** | Certified by (Signature) **[Signature]**



Mining Lands Comments

GRID LAYOUT CONTROL ADEQUATE? pg. 6 of report.

DIURNAL CONTROL ADEQUATE?

To: Geophysics **R. BARLOW**

Comments

Approved Wish to see again with corrections

Date **Aug 31/84** Signature **R. Barlow**

To: Geology - Expenditures

Comments

Approved Wish to see again with corrections

Date Signature

To: Geochemistry

Comments

LD

Approved Wish to see again with corrections

Date Signature

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

MISTANGO CONSOLIDATED RESOURCES LIMITED

Head Office

Suite 402
27 Queen Street East
Toronto, Canada M5C 2M8
Telephone: (416) 363-0411

Executive Office

Suite 901
2 Carlton Street
Toronto, Canada M5B 1J3
Telephone: (416) 593-4477

2.6650

July 26, 1984

Mr. S.E. Yumdt
Director
Land Management Branch
Whitney Block, Room 6643
Queen's Park
Toronto
Ontario
M7A 1W3

Dear Sirs:

Re: File No: 2.6650
Geophysical (Magnetometer)
Survey submitted on Mining Claims K645073
et al in the Township of Laval

RECEIVED	
Land Management Branch	<input type="checkbox"/>
CIRCULATE	<input type="checkbox"/>
SUPPORTS PLEASE	<input type="checkbox"/>
AUG 1 1984	
M. L. GOOD	
W. P. BROOK	
R. GC43	

Enclosed is a plan for the above mentioned survey showing all the claim lines and claim numbers. Please contact me if further information is needed.

Yours truly,
MISTANGO CONSOLIDATED RESOURCES LIMITED



G.W. Hedican
President

RECEIVED

AUG 01 1984

MINING LANDS SECTION

encl

July 11, 1984

File: 2.6650

David Petrunka & Mm. D. Morehouse
c/o Mustang Resources Ltd
Suite 901
2 Carlton Street
Toronto, Ontario
M5B 1J3

Dear Sirs:

RE: Geophysical (Magnetometer)
Survey submitted on Mining Claims K 645073
et al in the Township of Laval

Enclosed is the plan (in duplicate) for the above-mentioned survey. Please show all claim lines and claim number on the plans and return them to this office quoting file 2.6650.

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

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1K3

S. Hurst:mc

cc: Mining Recorder
Kenora, Ontario

Encl.

*called July 25
Sender's info
shortly.*

April 27, 1984

**Your File: 64
Our File: 2.6650**

**Mr. Wade S. Mathew
Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9**

Dear Sir:

**We have received reports and maps for a
Geophysical (Magnetometer) Survey submitted
under Special Provisions (credit for Performance
and Coverage) on Mining Claims K 645073 et
al in the Township of Laval.**

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

Yours sincerely,

**S.E. Yundt
Director
Land Management Branch**

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

A. Barr:mc

**cc: David Petrunka
Wm. D. Morehouse
c/o Mistango Consolidated Resources Limited
Suite 901
2 Carlton Street
Toronto, Ontario
M5B 1J3**



**GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT**

**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) TOTAL MAGNETIC FIELD STRENGTH
Township or Area LAVAL TOWNSHIP
Claim Holder(s) MISTAKE CONSOLIDATED RESOURCES CO
Survey Company P.C.A. ACME INTERNATIONAL LTD
Author of Report BERNARD M. SHEIN
Address of Author 36 DUNDAS ST. WEST TORONTO ONT
Covering Dates of Survey FEB 20 - MAR 5 1974
(linecutting to office)
Total Miles of Line Cut 12 MILES FLAGGED

MINING CLAIMS TRAVERSED	
List numerically	
K	145173
(prefix)	(number)
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GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 960 Number of Readings 960
Station interval 100 FEET Line spacing 100 YARDS
Profile scale
Contour interval 100 nT

MAGNETIC

Instrument BARRINGER PPM, MODEL G.M-122
Accuracy - Scale constant 58000 nT SUSCEPTIBILITY
Diurnal correction method BASE STATION LINE.
Base Station check-in interval (hours) 2
Base Station location and value BASELINE

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency
Parameters measured

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [] Time Domain [] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode

MISTANGO CONSOLIDATED RESOURCES LIMITED

Head Office

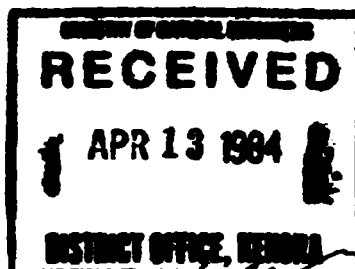
Suite 402
27 Queen Street East
Toronto, Canada M5C 2M8
Telephone: (416) 363-0411

Executive Office

Suite 901
2 Carlton Street
Toronto, Canada M5B 1J3
Telephone: (416) 593-4477

April 11, 1984

Ministry of Natural Resources
808 Robertson Street
P.O. Box 5080
Kenora
Ontario
P9N 3X9



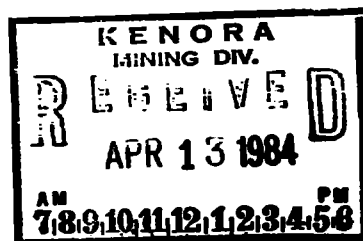
Attn: Mr. Wade S. Mathew
Mining Recorder

Dear Mr. Mathew:

Enclosed are 2 reports on recent work done on the claims in the Laval Townships, Kenora Mining Division.

Yours truly,
MISTANGO CONSOLIDATED RESOURCES LIMITED

Gerald W. Hedican
President



RECEIVED
APR 18 1984
MINING LANDS SECTION

encl

W.3350

QT JAVAJ

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NOTES

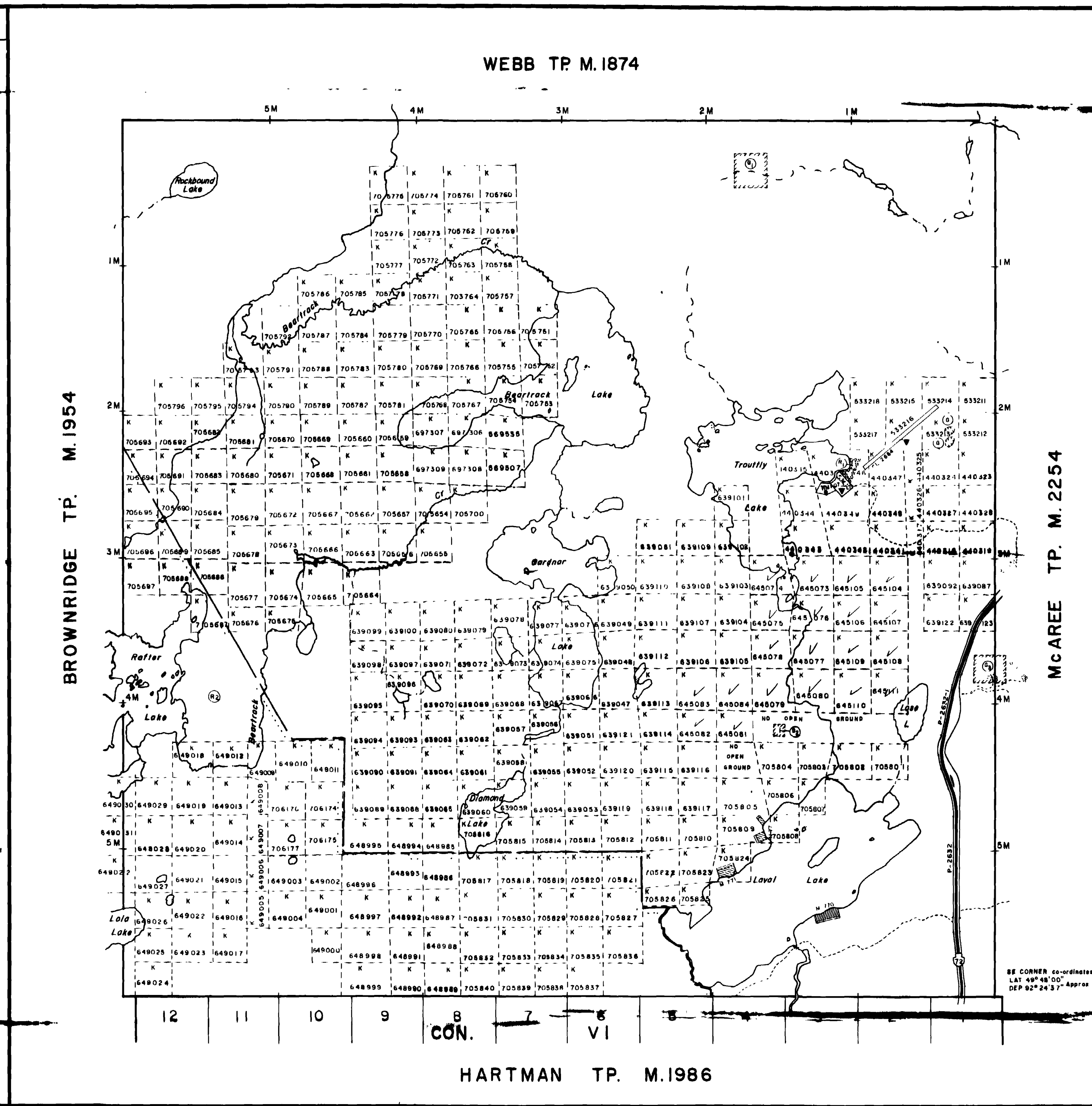
400' surface rights reservation along the shores of all lakes and rivers.

SAND and GRAVEL

- GRAVEL File 106744
- GRAVEL File 144049
- MTC PIT #1118

AREAS WITHDRAWN FROM STAKING

S.R. - SURFACE RIGHTS		M.R. - MINING RIGHTS	
Section	Date	Disposition	File
14	Res. for Public Use		183473
15	PARK RESERVE W37/A3	23/8/83 S.A.M.	188613



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES: LOT LINES
- PARCEL BOUNDARY MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- 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	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

DATE OF ISSUE

1984

Ministry of Natural Resources
TORONTO

SCALE: 1 INCH = 40 CHAINS

FEET: 0 1000 2000 4000 6000 8000
METRES: 0 100 200 300 400 500 600 700 800 900 1000

ACRES	HECTARES
40	16

TOWNSHIP
LAVAL

DISTRICT
KENORA

MINING DIVISION
KENORA

Ministry of Natural Resources
Ontario
Surveys and Mapping Branch

Date Nov '74 Plan No. M.3370
Whitney Block
Queen's Park, Toronto

M.3370

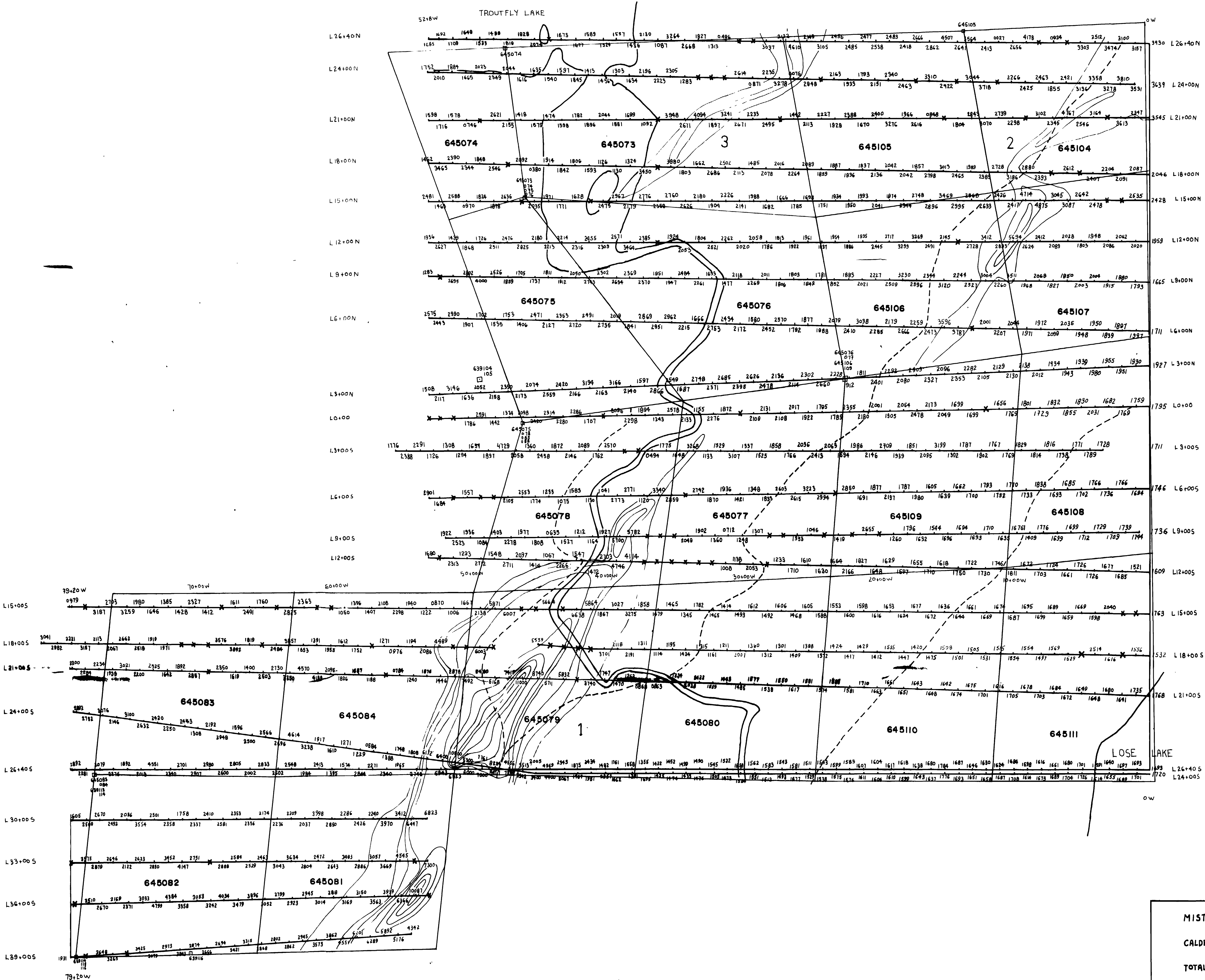
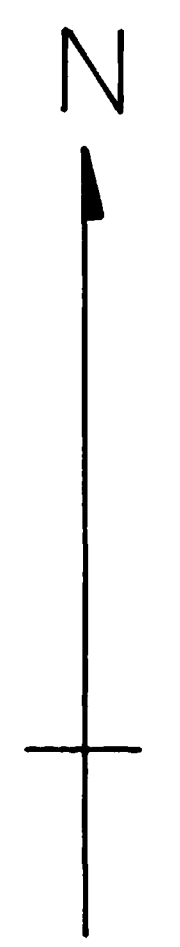
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62P-1689038 2,0000 LAVAL



LEGEND

- STATION AND READING
- LOGGING ROAD
- CLAIM POST
- MEASUREMENT UNAVAILABLE DUE TO MAGNETIC GRADIENT
- CONTOUR INTERVAL 1000 nT

NOTE: MAGNETIC SUSCEPTIBILITY: 58000 nT

SCALE: 1" = 500'

MISTANGO CONSOLIDATED RESOURCES LIMITED
 CALDER-BOUSQUET GOLD PROPERTY: LAVAL TWP, ONT.
 TOTAL MAGNETIC FIELD FIELD STRENGTH MAP

BY
 A.C.A. HOWE INTERNATIONAL LTD

VERNON M. SHEIN *VMS* 2/16/50 MAR. 04

