



42A03SE0152 2.14062 ENGLISH

010

Total Field Magnetic Survey
by
Geosearch Consultants Limited
for
Tintina Lines Limited
on
English Zavitz Group
English and Zavitz Townships, Ontario
(To Accompany Maps 91-70,71,72 A&B)

by
Louis Racic B.Sc.
Geosearch Consultants Ltd.
360 - 111 Queen St. East
Toronto, Ontario
M5C 1S2

2.14062 =

**RECEIVED
RECEIVED**

APR 13 1991
APR 19 1991

MINING LANDS SECTION
MINING LANDS SECTION

April 11, 1991

INTRODUCTION

A total field magnetic survey was carried out by Geosearch Consultants Limited for Tintina Mines Limited, on the English Zavitz Group in March 1991.

The area surveyed consists of twenty eight (28) contiguous unpatented mining claims, a list of which is appended to this report. The English Zavitz Group is located approximately fortyfour (44) kilometres due south from the town of South Porcupine, Ontario, situated on the border of English and Zavitz Townships (see location sketch). Access to the property was made via motor vehicle along secondary and logging roads from South Porcupine.

A geological mapping program was completed on sixteen (16) of the claims in 1990. This survey was undertaken to aid the geologic mapping process. A number of faults were identified by the magnetic data as were a number of distinct rock units.

The accompanying maps show the area surveyed and the results obtained. A technical data sheet is appended to this report.

METHOD OF OPERATION

The total field magnetic survey was completed using the Gem Systems GSM - 18 Proton Precession Memory Magnetometers. The diurnal magnetic drift was corrected for by means of a GSM-18 magnetometer used in the base station mode, with readings taken at three second intervals. The corrected data was posted on Maps 91-71 A & B. The magnetic data was contoured twice. On Maps 91-70 A & B, the data was contoured with a strict 90 degree line bias using no anomaly trending or smoothing techniques. On Maps 91-72 A & B, the enhanced contour maps, the data was trended where deemed necessary and smoothed with one pass of the Hanning filter.

The power line which crosses the western section of the grid produced areas where no valid readings were obtainable. for the sake of completeness, these values were posted on the postings maps. However, they were deleted prior to contouring to avoid large meaningless anomalies.

There were many errors found in the labelling of the pickets on the grid. These were noted on the posting maps, 91-71 A & B. They were not noted on the contoured maps due to the congestion of the contour lines.

SURVEY RESULTS

The total field magnetic survey outlined an area with a relatively quiet magnetic background within which numerous anomalous features are evident. The background magnetic level is uniform over most of the survey area with a few exceptions.

An abrupt two hundred (200) gamma drop in magnetic amplitude is noted between lines 51+00E and 52+00E from 7+00S to the end of the line. This suggests a different rock unit southeast of a line extending from L52+00E, 7+00S to L57+00E, 7+00S.

A three hundred (300) gamma drop in amplitude occurs between L45+00E and L46+00E at 4+00N to 5+00N and between L46+00E and L47+00E, from 3+00N to 4+00N. This also suggests a differing rock unit to the southwest of a line extending from L45+00E, 6+00N to L48+00E, 2+00S. Within this less magnetic unit in the southwest corner of the property, there are three narrow, subparallel, east\west trending anomalies. These are located as follow:

- 1) L39+00E, 1+00N to L47+00E, 3+25S
- 2) L39+00E, 2+75N to L48+00E, 2+62S
- 3) L40+00E, 3+62N to L44+00E, 2+00N

It is noted that the magnetic amplitudes of these three linear features is highest in #1 and lowest in #3. Lineament #2 is locate along the contact of the diabase and the massive intermediate volcanic unit as mapped in 1990. Lineament #1 is located in a cedar swamp with little visible outcrop, and the area covered by lineament #3 has yet to be mapped.

In the centre of the survey area are two short strike length north east trending anomalies. They are situated as follow:

- 4) L50+00E, 2+25S to L52+00E, 1+87S
- 5) L49+00E, 4+25S to L53+00E, 2+75S

These anomalies are significantly more magnetic than the previous three. Anomaly #4 is coincident with an iron formation outcropping on L50+00E, in a massive mafic volcanic unit along its contact with the diabase. The high amplitude magnetic value on L52+00E, 2+00S suggests more IF outcropping. Anomaly #5 correlates very well with the unit mapped as tuffaceous mafic volcanics and iron formation. The magnetics does not extend this unit beyond its mapped location.

These two magnetic anomalies form the edges of a magnetic envelope, which extends to L60+00E, 1+87S. This correlates well with the mapped diabase unit. The fault offsetting the diabase 200 metres to the north is evident in the magnetic data, with the diabase continuing from L62+00E, 1+50N to L64+00E, 1+50N. Here a second north west trending fault is suggested by the 150 metre offset of the magnetics to L65+00E, 3+00N to L67+00N, 3+00N. This area has also not yet been mapped.

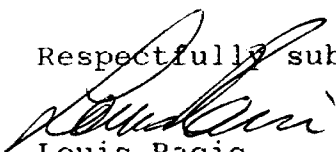
The only other feature obvious from the magnetics is located in the north west section of the surveyed area. It extends north west from a line extending between L49+00E, 4+50N to L55+00E, 7+00N. There is no obvious correlation with the mapped geology, however much of the region is covered with swamp.

At the intersection of the three east west trending anomalies, #1,2 &3, and the two north east trending anomalies, #4 & 5, there is a very confused magnetic picture. Directly south of this intersection there are numerous magnetic high and low anomalies with no apparent connection. It is a very disrupted area. As well, a line joining the two areas where the background changes abruptly, crosses through this intersection area. This suggests a thrust fault as the source of the break, however this does not explain the disrupted magnetics south of the intersection. There is also no evidence from the geological mapping which suggests faulting. It remains a confused area.

RECOMMENDATIONS

The magnetic survey has outlined a number of the rock units and structures identified in the geological mapping. It has also identified a number of rock units and structures not identified in the mapping or in areas where mapping has not yet been completed. The area of the showing on the base line near L49+00E has no recognizable magnetic signature, which is what was expected. However, its location near the very disrupted intersection of anomalies #1,2,3 with #4 and 5 does demand a better understanding of this confused structure. It is recommended to complete the geologic mapping on the unmaped areas, with special attention given to the 'confused' area, between Lines 43+00E and 49+00E, 2+00S to 6+00S.

Respectfully submitted,

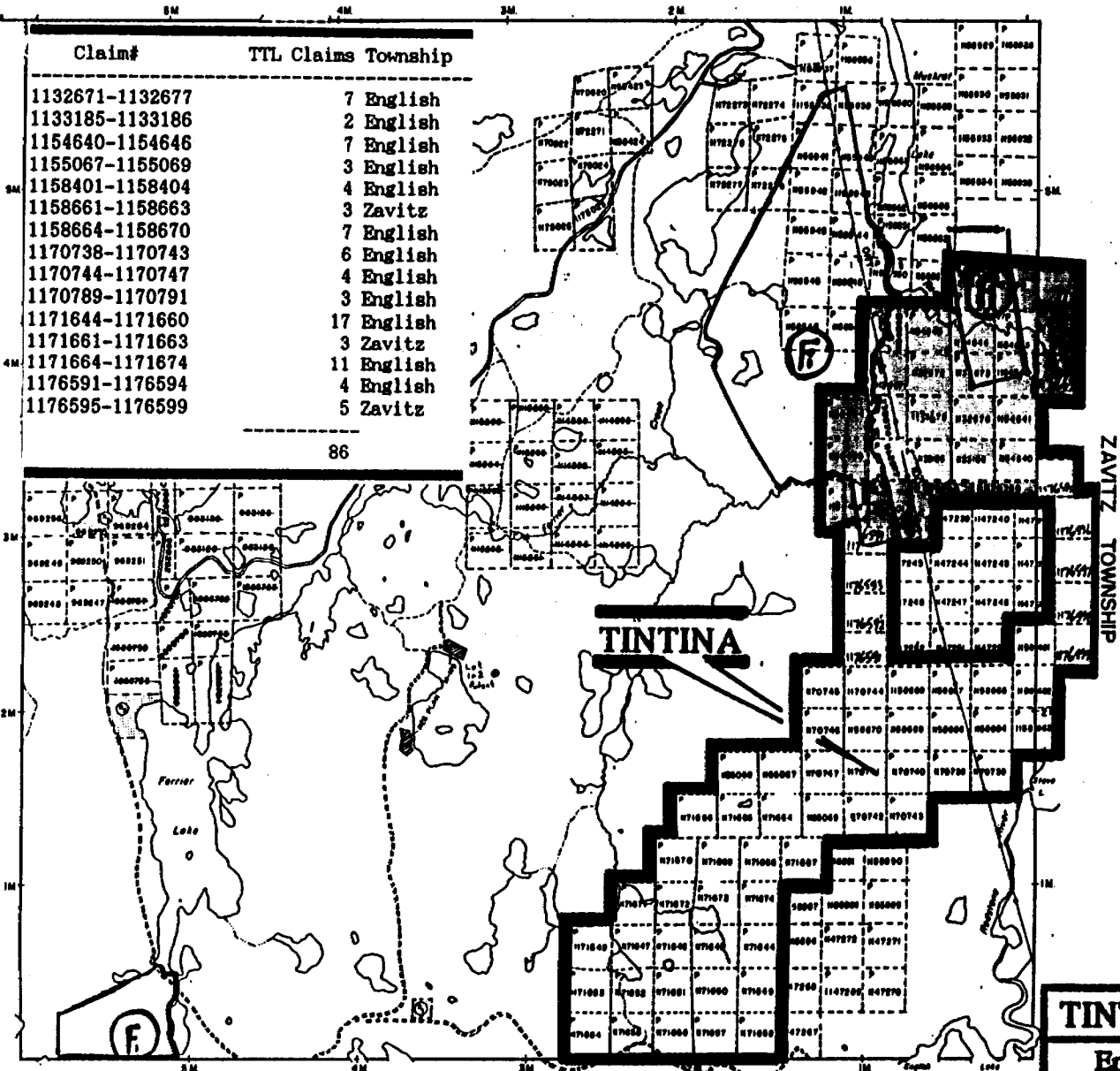

Louis Racic
Geophysicist

Anal 2.8017

BARTLETT TOWNSHIP

1990 GRID (MAG ONLY)

1991 EXTENSION (MAG & LINEUM)



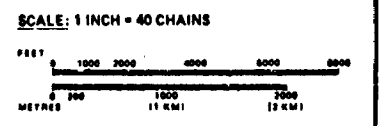
Claim#	TTL Claims Township
1132671-1132677	7 English
1133185-1133186	2 English
1154640-1154646	7 English
1155067-1155069	3 English
1158401-1158404	4 English
1158661-1158663	3 Zavitz
1158664-1158670	7 English
1170738-1170743	6 English
1170744-1170747	4 English
1170789-1170791	3 English
1171644-1171660	17 English
1171661-1171663	3 Zavitz
1171664-1171674	11 English
1176591-1176594	4 English
1176595-1176599	5 Zavitz

LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
- SURFACE RIGHTS ONLY	
- MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
- SURFACE RIGHTS ONLY	
- MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	



THIS MAP IS SUBJECT TO FOREST ACTIVITIES IN 8900
FURTHER INFORMATION AVAILABLE ON FILE.

TOWNSHIP
ENGLISH
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE

TINTINA MINES LIMITED

English - Zavitz Twp Project

Claims Location

SEMPLÉ TOWNSHIP

March/1991



Mining Act
Report of Work
(Geophysical, Geological and Geochemical)

MINING LANDS SECTION, MINERAL DEVELOPMENT AND LANDS BRANCH:

Type of Survey(s) Magnetic	Mining Division Porcupine	Township or Area English & Zavitz Twp.
Recorded Holder(s) Tintina Mines Ltd.	2.14062	Prospector's Licence No. T-880
Address 804 - 920 Yonge St., Toronto, Ontario M4W 3C7		Telephone No. 929-2944
Survey Company Geosearch Consultants Limited		
Name and Address of Author (of Geo-Technical Report) Louis Racic, 360-111 Queen St. E., Toronto, Ont.		Date of Survey (from & to) May 19 1991 - May 19 1991

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	40
	- Magnetometer	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.		
	Magnetometer	
	Other	
Total miles flown over claim(s)		
Date	Recorded Holder or Agent (Signature)	

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1158401				
	1158402				
	1158403				
	1158404				
	1170789				
	1170790				
	1170791				
	1171659				
	1171660				
	1171661				
	1171662				
	1171663				

RECEIVED
JUN 12 1991
MINING LANDS SECTION

RECORDED
APR 9 1991

Total number of mining claims covered by this report of work. **12**

Certification Verifying Report of Work

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

Name and Address of Person Certifying
Louis Racic, 360-111 Queen St. E., Toronto, Ont., M5C 1S2

Telephone No. **365-3325** Date **11/04/91** Certified By (Signature) *Louis Racic*

For Office Use Only

Total Days Cr. Recorded 480	Date Recorded APR 19 1991	Mining Recorder <i>Robert Bailey</i>
	Date Approved as Recorded <i>June 13 1991</i>	Provincial Manager, Mining Lands <i>Ken Clarke</i>

Received Stamp

RECEIVED
PORCUPINE MINING DIVISION
APR 19 1991
1:30 PM

ML 14062 MC

DOCUMENT No. W 9160.00140

- Instructions: Please type or print. Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type. If number of mining claims traversed exceeds space on this form, attach a list. Technical Reports and maps in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Report of Work (Geophysical, Geological and Geochemical Surveys) Mining Act

Form with fields: Type of Survey(s) Magnetic, Mining Division Porcupine, Township or Area English Twp., Recorded Holder(s) Tintina Mines Ltd., 2.14062, Prospector's Licence No. T-880, Address 804 - 920 Yonge St., Toronto, Ontario M4W 3C7, Telephone No. 929-2944, Survey Company Geosearch Consultants Limited, Name and Address of Author (of Geo-Technical Report) Louis Racic, 360-111 Queen St. E., Toronto, Ont., Date of Survey (from & to) 04/03/91 to 04/04/91

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

Table with columns: Mining Claim Prefix, Mining Claim Number, Mining Claim Prefix, Mining Claim Number, Mining Claim Prefix, Mining Claim Number. Contains list of 16 claims (P 1132671 to P 1154643) and a RECEIVED stamp dated JUN 12 1991 and APR 19 1991.

RECEIVED JUN 12 1991 MINING LANDS SECTION RECORDED APR 19 1991

Total number of mining claims covered by this report of work. 16

Certification Verifying Report of Work: I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true. Name and Address of Person Certifying Louis Racic, 360-111 Queen St. E., Toronto, Ont., M5C 1S2. Telephone No. 365-3325. Date 11/04/91. Certified By (Signature) [Signature]

For Office Use Only

Form with fields: Total Days Cr. Recorded 320, Date Recorded April 19/91, Mining Recorder Robert Bailey, Date Approved as Recorded June 12/91, Provincial Manager, Mining Lands [Signature]

Received Stamp: PORCUPINE MINING DIVISION RECEIVED APR 19 1991 L. 35 (P) C.F.



2.14062

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) Magnetic
Township or Area English Twp., Ontario
Claim Holder(s) Tintina Mines Ltd.
Survey Company Geosearch Consultants Ltd.
Author of Report Louis Racic
Address of Author 360-111 Queen St. E., Toronto, Ont
Covering Dates of Survey 14/03/91 - 11/04/91
Total Miles of Line Cut 26.8 kilometers

MINING CLAIMS TRAVERSED
List numerically

Table with columns for (prefix) and (number). Contains entries: P 1132671-1132677, P 1133185-1133186, P 1154640-1154646. Total claims 16.

SPECIAL PROVISIONS CREDITS REQUESTED table with columns for Geophysical (Electromagnetic, Magnetometer, Radiometric, Other) and Geological/Geochemical, and DAYS per claim.

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: 12/04/91 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications 2.8017

Previous Surveys

Table with columns: File No., Type, Date, Claim Holder. Multiple empty rows.

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 1071 Number of Readings 2112
Station interval 25 m (12.5 m) Line spacing 100m
Profile scale
Contour interval 50 gammas

MAGNETIC

Instrument Gem Systems GSM-18 Proton Precession Magnetometers
Accuracy - Scale constant 0.1 gamma
Diurnal correction method Base station recorder with readings taken
Base Station check-in interval (hours) at 3 second intervals
Base Station location and value

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency (specify V.L.F. station)
Parameters measured

GRAVITY

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

INDUCED POLARIZATION RESISTIVITY

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



2.1 file 4062

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) Magnetic
Township or Area English & Zavitz Twps., Ontario
Claim Holder(s) Tintina Mines Ltd.
Survey Company Geosearch Consultants Ltd.
Author of Report Louis Racic
Address of Author 360-111 Queen St.E., Toronto, Ont
Covering Dates of Survey 14/03/91 - 11/04/91
Total Miles of Line Cut 18.7 kilometers

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)
P. 1158401-1158404
P 1170789-1170791
P 1171659-1171663

SPECIAL PROVISIONS
CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.
ENTER 20 days for each additional survey using same grid.

Geophysical
-Electromagnetic 40
-Magnetometer
-Radiometric
-Other
Geological
Geochemical

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

Magnetometer Electromagnetic Radiometric
(enter days per claim)

DATE: 12/04/91 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. Qualifications 2. 8017

Previous Surveys

Table with 4 columns: File No., Type, Date, Claim Holder

TOTAL CLAIMS 12

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 748 Number of Readings 1466
Station interval 25 m (12.5 m) Line spacing 100m
Profile scale
Contour interval 50 gammas

MAGNETIC

Instrument Gem Systems GSM-18 Proton Precession Magnetometers
Accuracy - Scale constant 0.1 gamma
Diurnal correction method Base station recorder with readings taken
Base Station check-in interval (hours) at 3 second intervals
Base Station location and value

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency (specify V.L.F. station)
Parameters measured

GRAVITY

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

INDUCED POLARIZATION RESISTIVITY

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

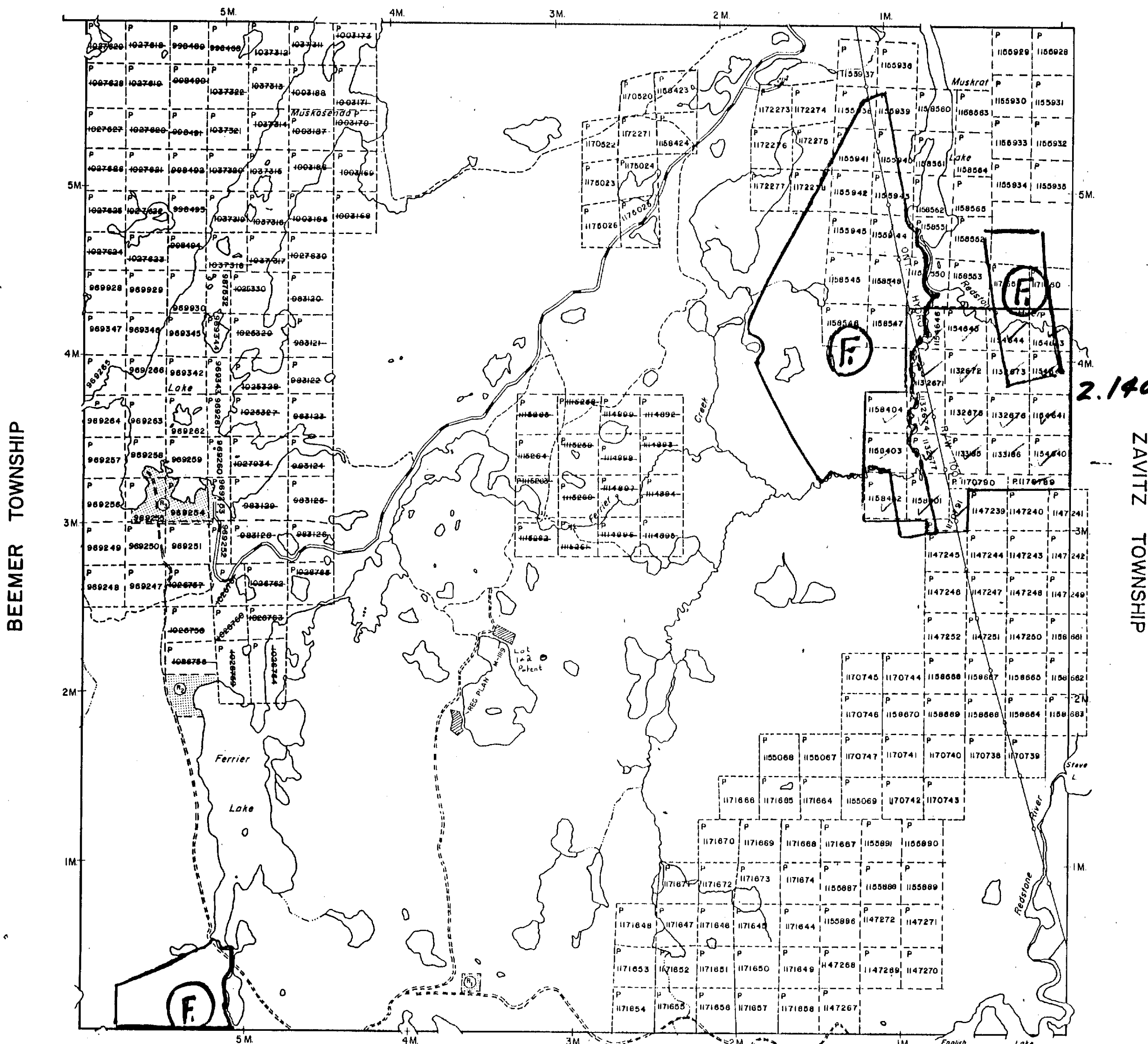
REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File
1) SEC.36/80	W.18/77	28/02/77	S.R.O.	85582
2) SEC.36/80	W.19/78	10/04/78	S.R.O.	186543
3) SEC.36/80	W.30/78	02/06/78	S.R.O.	192219

BARTLETT TOWNSHIP



BEEMER TOWNSHIP

ZAVITV TOWNSHIP

SEMPLÉ TOWNSHIP

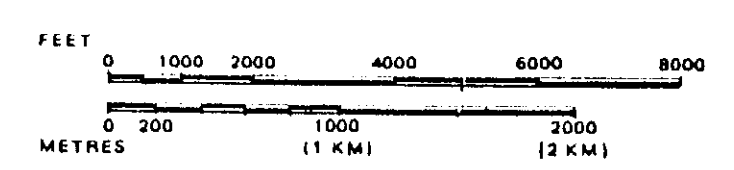
LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	◑
" SURFACE RIGHTS ONLY	◒
" MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	◔
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊘
SAND & GRAVEL	⊙

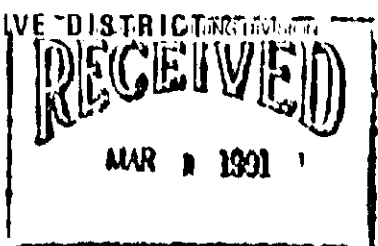
SCALE: 1 INCH = 40 CHAINS



THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1990. FURTHER INFORMATION AVAILABLE ON FILE.

TOWNSHIP
ENGLISH

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



Ministry of Natural Resources Ontario
Ministry of Northern Development and Mines

Date: SEPTEMBER 1990
Number: G-3938
ACTIVATED: SEPT. 25/90
S.R.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MIN.



Geikie Twp.(M.320)

THE TOWNSHIP OF
OF
ZAVITZ

DISTRICT OF
SUDBURY

PORCUPINE
MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	Ⓟ
CROWN LAND SALE LEASES	C.S.
LOCATED LAND	Ⓞ
LICENSE OF OCCUPATION	Loc.
MINING RIGHTS ONLY	L.O.
SURFACE RIGHTS ONLY	M.R.O.
ROADS	S.R.O.
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.

NOTES

400' SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.

Ⓟ THIS TWP. IS SUBJECT TO FOREST ACTIVITIES IN 1991/92. FURTHER INFORMATION AVAILABLE ON FILE.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF LANDS SHOWN HERE.

RECEIVED
MAR 25 1991

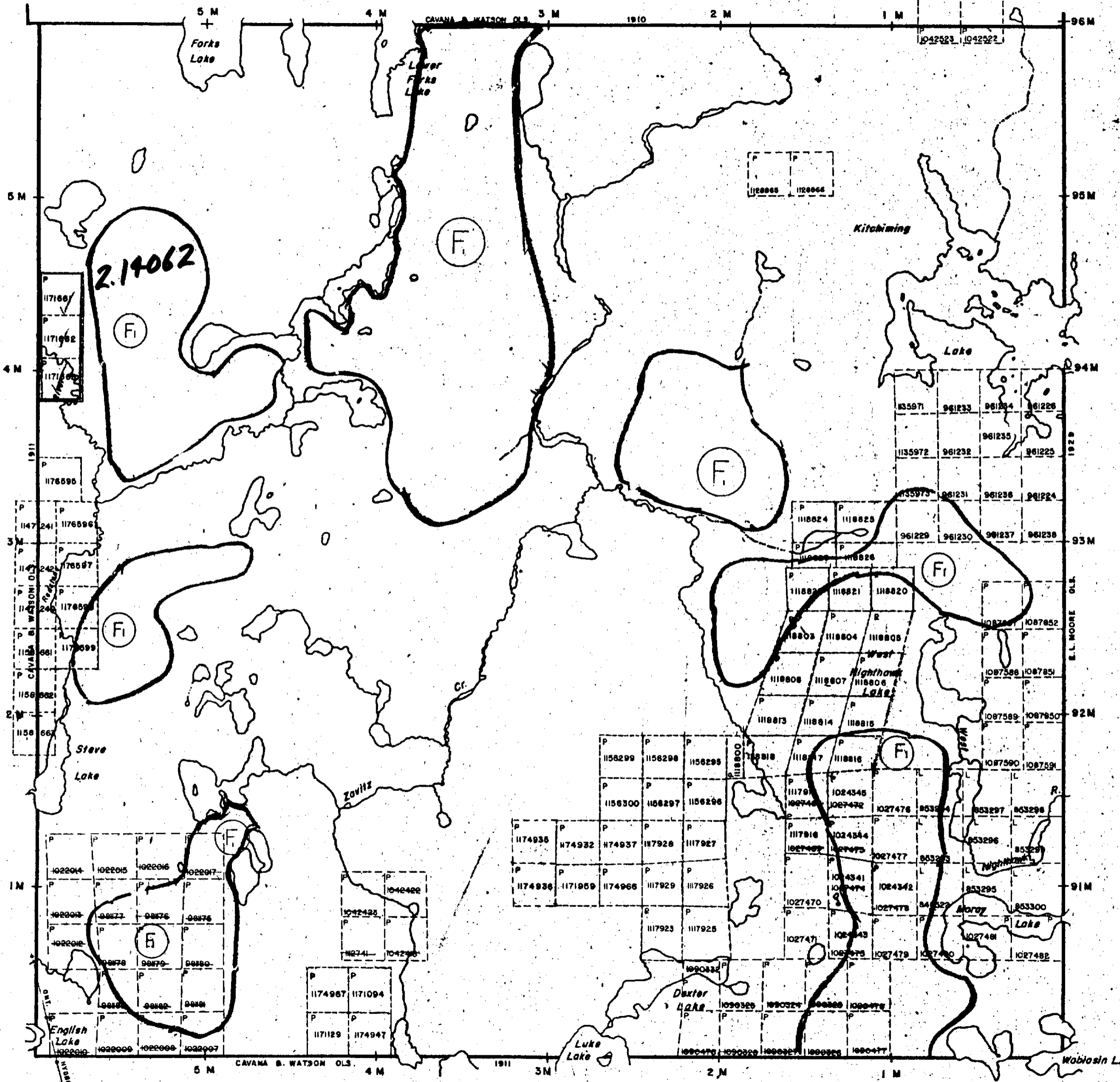
PLACED ON ACTIVE FILE. CHECK NO. 20103190. *OK, mcr.*

PLAN NO. **M. 1189**

DEPARTMENT OF MINES
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

English Twp.(M.787)

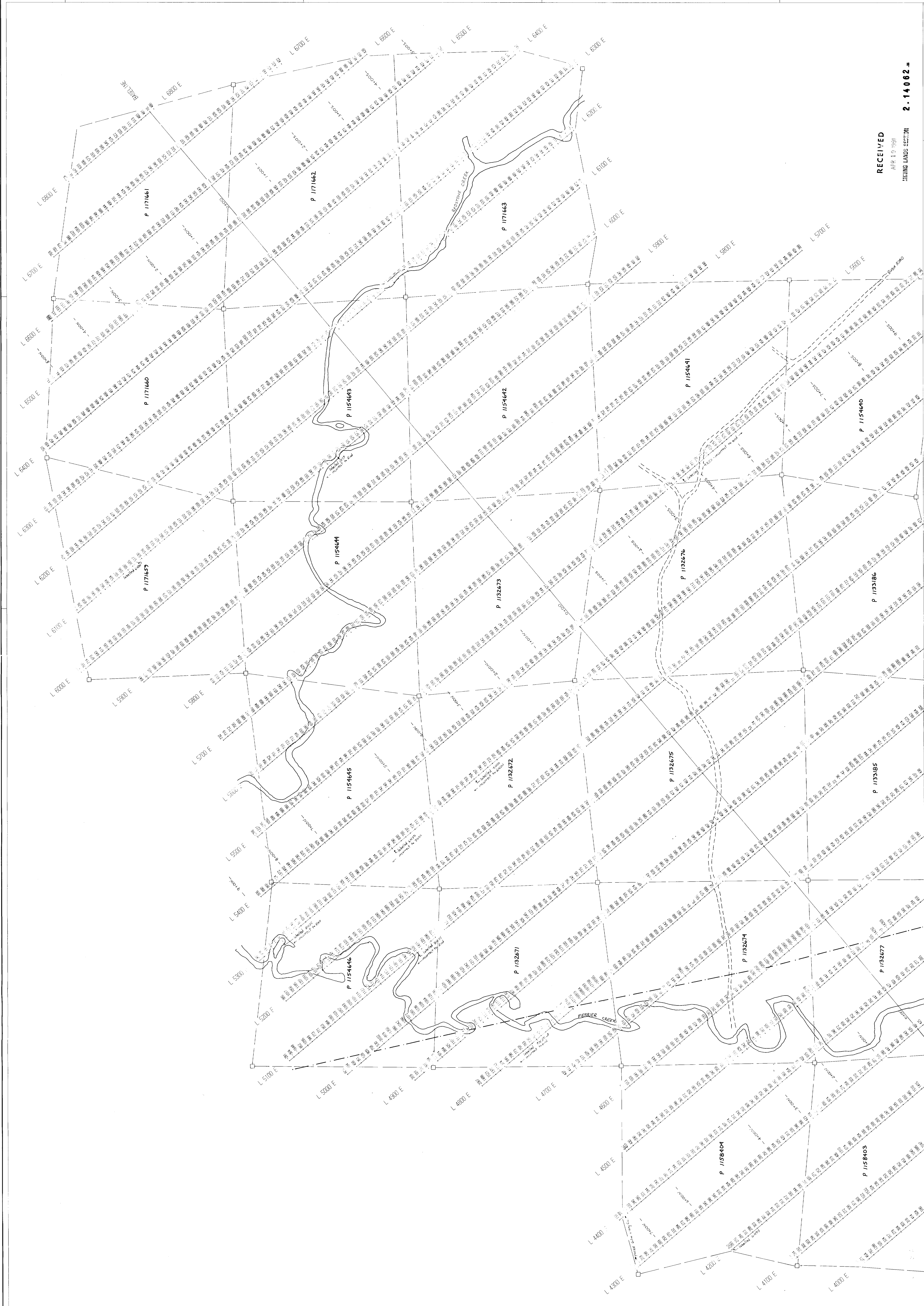
Hincks Twp.(M.223)



Hutt Twp.(M.943)



42A035E0152 2.14062 ENGLISH



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APR 10 1991
MILKING LANDS SECTION **2-14062-**

MAP KEY

A	B
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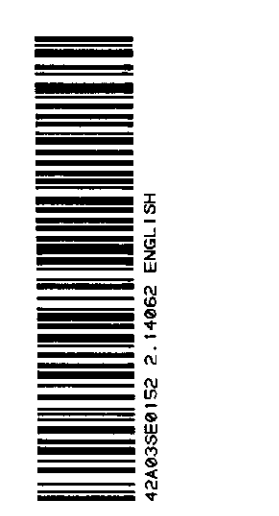
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OF HORIZONTAL DISTANCE

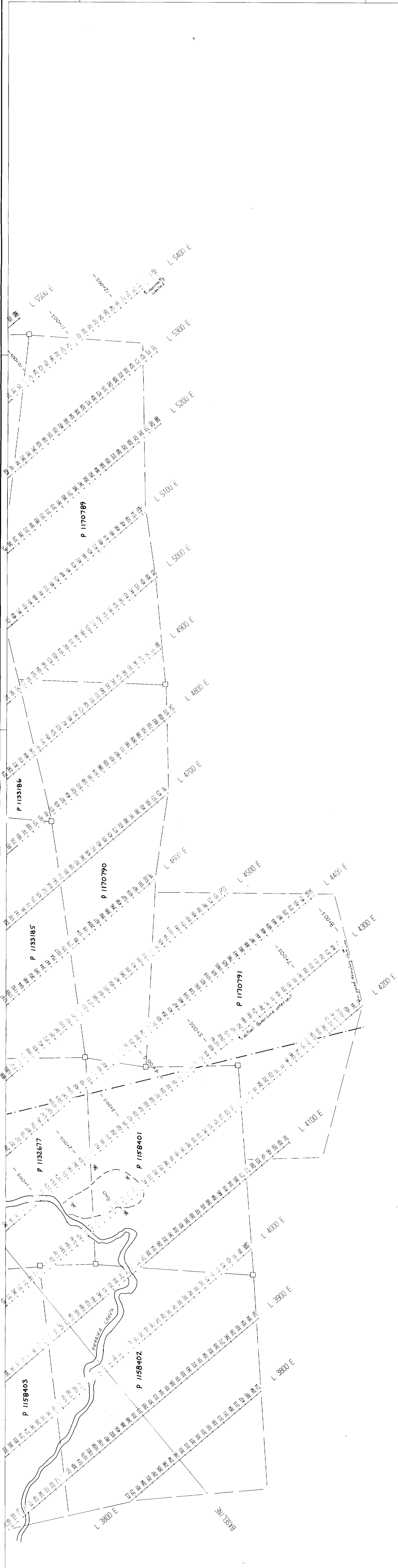
BASE LEVEL: 100.00 M AS INDICATED
INSTRUMENT: - NEW SYSTEMS (CM TO METERS)

TOPOGRAPHY

- GLIM POST
- LAKE
- STREAM
- SWAMP
- ACCESS ROAD
- BUSH ROAD
- LINE

TOTAL FIELD MAGNETIC SURVEY
BY
GEOSURCH CONSULTANTS LTD.
FOR
TINTINA MINES LTD.
ENGLISH ZAVITZ GROUP
ENGLISH AND ZAVITZ IMPS., ONT.
DATE: MARCH 1991
DRAWN: L.J.R. M.S. 12.13
91-714





RECEIVED
 APR 19 1991
 SPRING LANDS SECTION
 2-14062

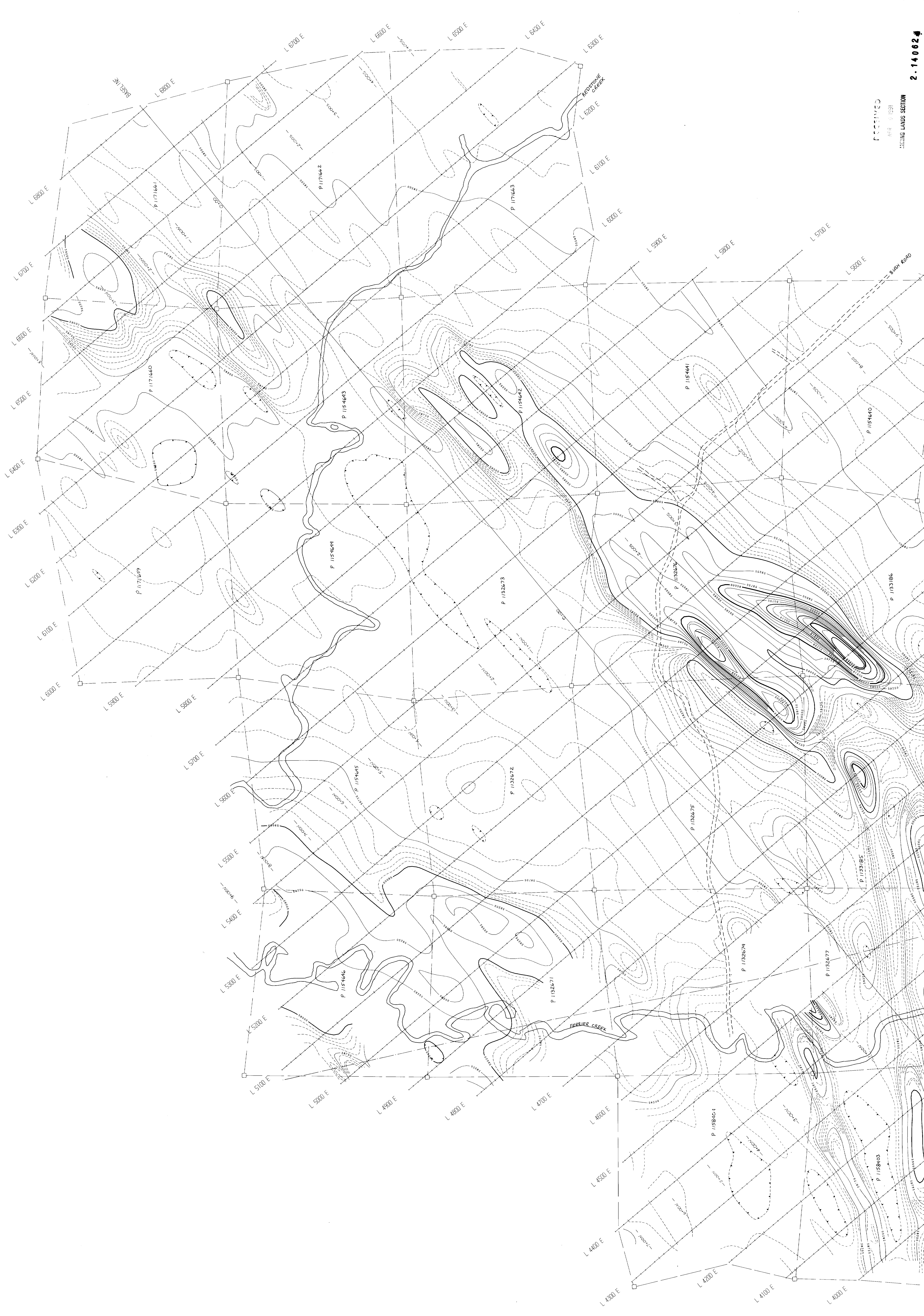
MAP KEY
 A
 B
 SCALE 1 : 2,500
 0 100 200 300
 METERS

TOPOGRAPHY
 CLAIM POST
 LAKE
 STREAM
 SWAMP
 ACCESS ROAD
 BURN ROAD
 25' LINE

TOTAL FIELD MAGNETIC SURVEY
 by
 GEOSARCH CONSULTANTS LTD.
 For
 TINTINA MINES LTD.
 ENGLISH AND ZAVITZ GROUP
 ENGLISH AND ZAVITZ TRMPS., ONT.
 DATE : MARCH 1991
 DRAWN : L.J.E.

BASE ELEV. 58,000 FT. FINISHED
 INSTRUMENT : SUN SYSTEMS GSM-19 MAGNETOMETER





RECEIVED
 APR 2 1991
 MINING LANDS SECTION

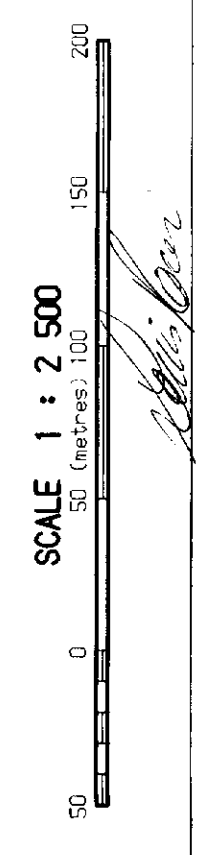
2-140624

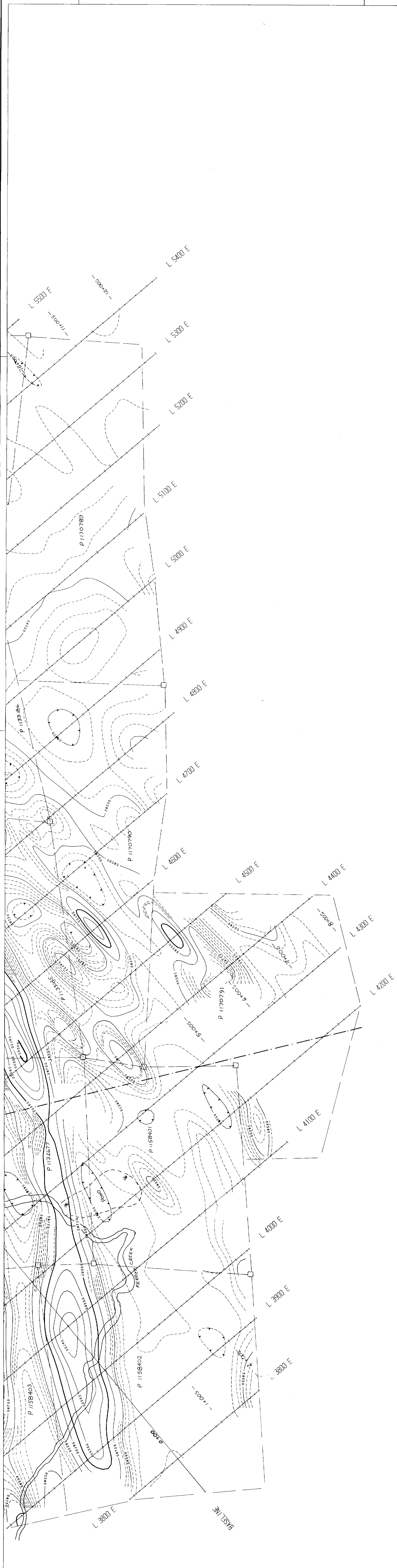
ENHANCED TOTAL FIELD MAGNETICS
 by
 GEORESEARCH CONSULTANTS LTD.
 For
 TINTINA MINES LTD.
 ENGLISH AND ZAVITZ GROUP
 ENGLISH AND ZAVITZ TEMPS., ONT.
 DATE: MARCH 1991
 DRAWN: L.L.R.

MAP KEY
 A
 B

MAGNETIC FIELD CONTOURS
 50
 250
 1000
 2000
 3000
 3500
 50,000 FT. MAGNETIC INTENSITY
 INSTRUMENT: GOM SYSTEMS GOM-18 MAGNETOMETER

TOPOGRAPHY
 CLAIM POST
 LAKE
 STREAM
 SWAMP
 ACCESS ROAD
 BUSBY ROAD
 R. LINE





RECEIVED
 APR 19 1991
 MINING LANDS SECTION 2-14062

ENHANCED TOTAL FIELD MAGNETICS
 GEOSURFACE CONSULTANTS LTD.
 FOR
 TINTINA MINES LTD.
 ENGLISH ZAVITZ GROUP
 ENGLISH AND ZAVITZ TRPS. ONT.
 DATE : MARCH 1991
 DRAWN : L.S.K.

MAGNETIC FIELD CONTOURS
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 98500
 99000
 99500
 100000

MAP KEY
 A
 B

SCALE 1:2500
 0 50 100 150 200 250 300 350 400 450 500 550 600 650 700 750 800 850 900 950 1000

TOPOGRAPHY
 QUARRY POST
 LAKE
 CREEK
 SWAMP
 ACCESS ROAD
 SPOKE ROAD
 F.V.M.

2800

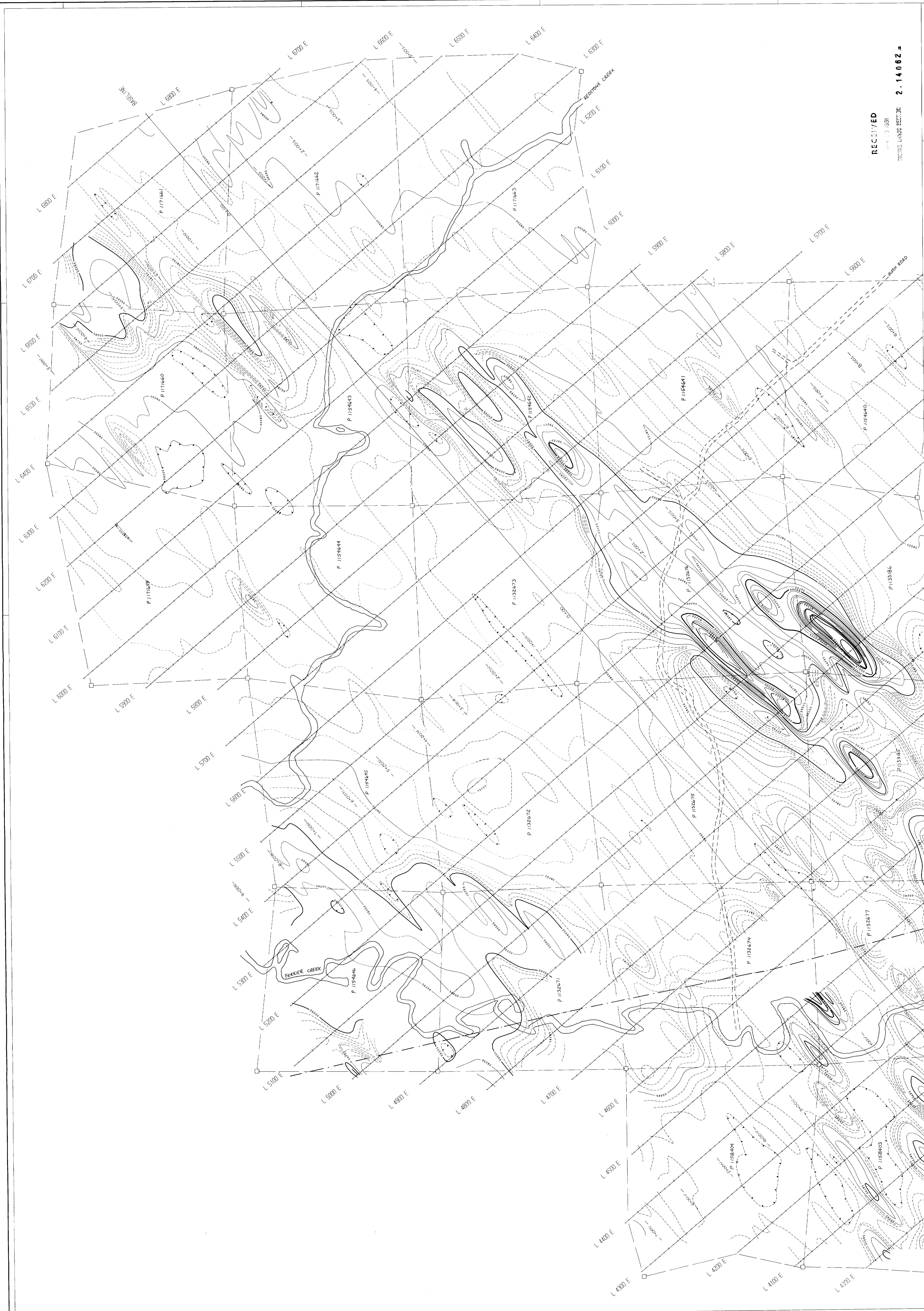
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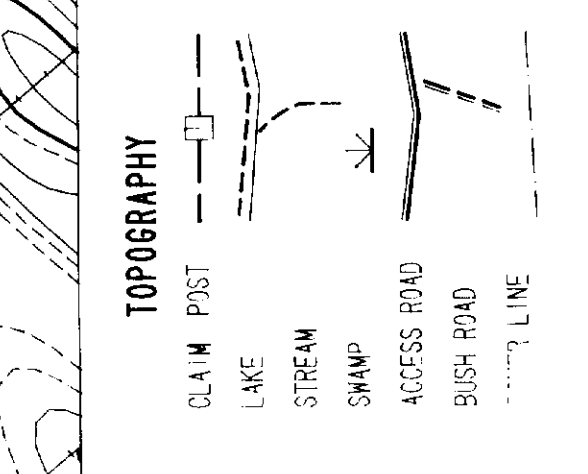
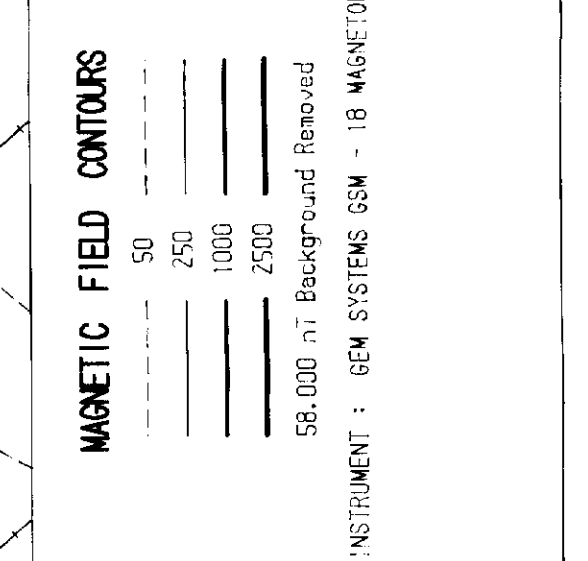
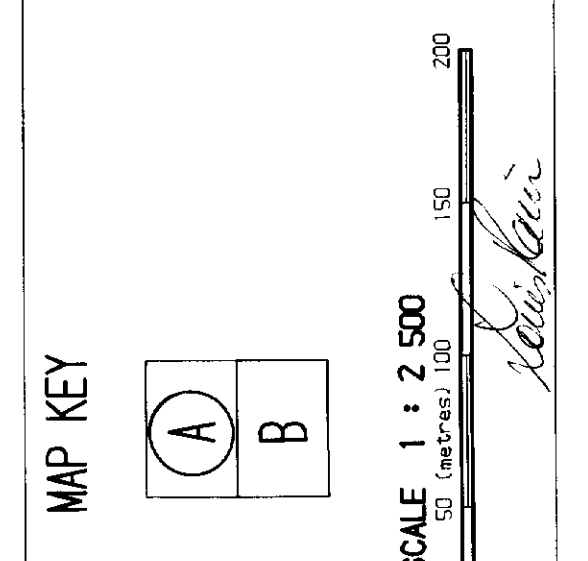
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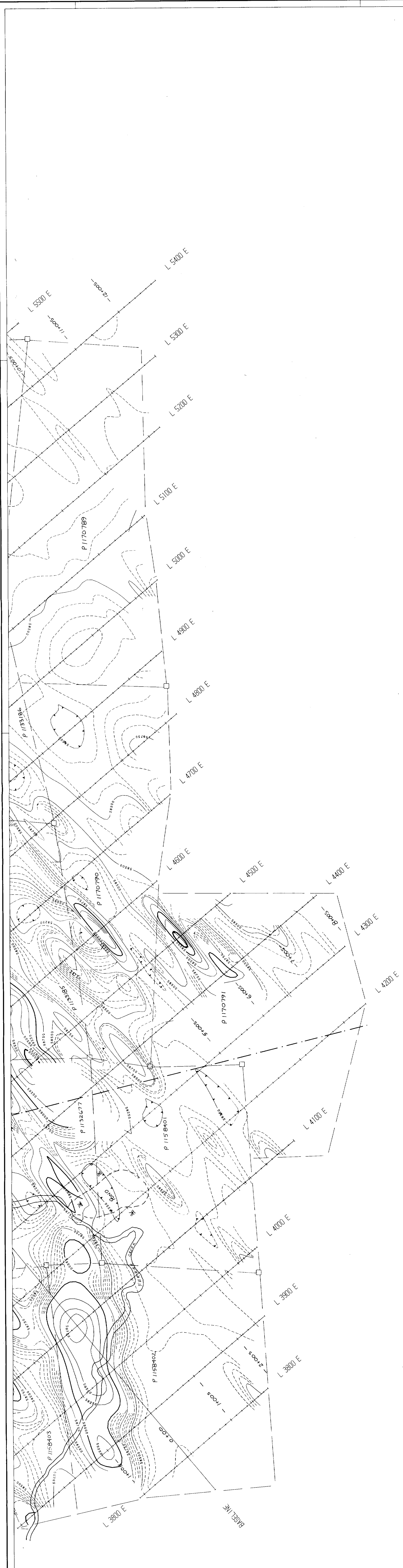
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TOTAL FIELD MAGNETIC SURVEY
 by
 GEOSURVEY CONSULTANTS LTD.
 for
 TINTING WINES LTD.
ENGLISH ZAVITZ GROUP
 ENGLISH AND ZAVITZ T.M.P.S., ONT.
 DATE : MARCH 1991
 SHEET : 1 OF 2



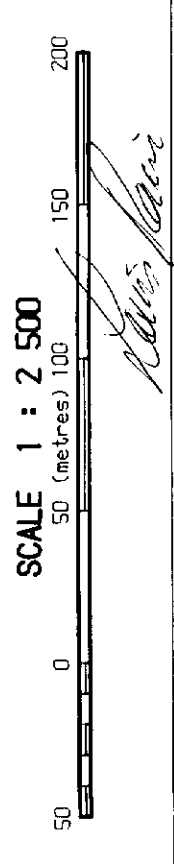
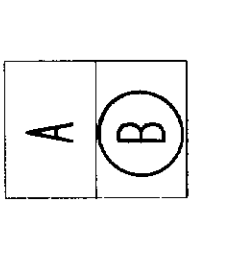


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APR 19 1991
MAGNETIC LANDS SECTION

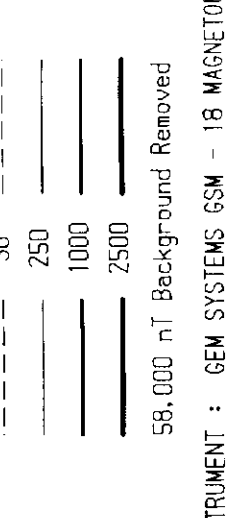
2-14062

TOTAL FIELD MAGNETIC SURVEY
by
GEORESEARCH CONSULTANTS LTD.
for
TIMTINA WINES LTD.
ENGLISH ZAVITZ GROUP
ENGLISH AND ZAVITZ IMPS., ONT.
DATE : MARCH 1991
DRAWN : L.J.R.

MAP KEY



MAGNETIC FIELD CONDITIONS



INSTRUMENT - GEN SYSTEMS 10M - 18 MAGNETOMETER

