



42A03SE0206 2.13682 ENGLISH

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**MINING LANDS SECTION**

**EXPLOITS EXPLORATION CORPORATION**

**BRUCE FERRIER CREEK GROUP**

**REPORT ON GEOLOGY**

**ENGLISH TOWNSHIP, ONTARIO**

**NOVEMBER 1990**

**WILLIAM C. KERR**

*2.13682*



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LIST OF DRAWINGS

DWG NO: EEC02-001	LOCATION MAP	IN BACK POCKET
DWG NO: EEC02-002	PROPERTY GEOLOGY	IN BACK POCKET
DWG NO: GS2-5A	GEOLOGY AND SAMPLING DETAIL	
	(G.S.W. BRUCE & ASSOCIATES INC.)	IN BACK POCKET

TABLES

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APPENDICES

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## INTRODUCTION

On June 1, 1990, the G.S.W. Bruce 1990 Prospecting Grubstake discovered extensive zones of carbonatization and pyritization on the Ferrier Creek Road, English Township, Ontario. Results from preliminary grab samples from these zones yielded strongly anomalous gold values with the highest assay being 2600 p.p.b. Au.

On June 26-28 inclusive, careful re-sampling of the earlier sites, as well as nearby altered zones, was completed by G.S.W. Bruce. This second phase of sampling was carried out, for the most part, by cutting moiled chip samples. Assays of these samples, received on July 10, confirmed previous grab sample results. The highest assay was 3500 p.p.b. over a sample interval of 1.0 metre.

The present 20 claim group was staked by three different contractors on June 14, 15, and 16, July 17 and 18 and July 21, 1990.

In late August, 1990, Exploits Exploration Corporation was requested by G.S.W. Bruce to carry out geological mapping of sixteen of the twenty claims. Control was provided by a grid of lines, spaced at 100 metre intervals, which was cut by Georgex Exploration Contractors.

The following report and accompanying maps presents the results of this mapping programme.

## PROPERTY

The property is composed of sixteen contiguous claims, and the pertinent data is detailed in Table 1:

TABLE 1

CLAIM NUMBER	RECORDING DATE	RECORDED HOLDER
1132671	June 25, 1990	G. S. W. Bruce
1132672	June 25, 1990	G. S. W. Bruce
1132673	June 25, 1990	G. S. W. Bruce
1132674	June 25, 1990	G. S. W. Bruce
1132675	June 25, 1990	G. S. W. Bruce
1132676	June 25, 1990	G. S. W. Bruce
1132677	June 25, 1990	G. S. W. Bruce
1133185	June 25, 1990	G. S. W. Bruce
1133186	June 25, 1990	G. S. W. Bruce
1154640	July 23, 1990	G. S. W. Bruce
1154641	July 23, 1990	G. S. W. Bruce
1154642	July 23, 1990	G. S. W. Bruce
1154643	July 23, 1990	G. S. W. Bruce
1154644	July 23, 1990	G. S. W. Bruce
1154645	July 23, 1990	G. S. W. Bruce
1154646	July 23, 1990	G. S. W. Bruce

The address for service for Mr. Bruce is as follows:

G. S. W. Bruce & Associates Inc.  
G. S. W. Bruce, Consulting Geologist  
11 Collingsbrook Blvd.  
Agincourt, Ontario  
M1W 1L5

It is anticipated that with the filing and acceptance of this report, one years assessment credit will be applied to all claims.

#### LOCATION AND ACCESS

The Bruce Ferrier Creek Group is located in east central English township, situated approximately 55 kilometres south of Timmins, Ontario. The claim group is bounded on the north by the Redstone River, and by Ferrier Creek to the west. Excellent access is provided by an all weather gravel road from South Porcupine which bisects the area. The property boundary is illustrated on the English township claim map (see DWG. No. EEC02-001).

#### PREVIOUS WORK

No documented work for gold has ever been performed on the property, based on data filed for assessment credit at the Ministry of Northern Development and Mines in Timmins, Ontario. Although the area was probably prospected during the early part of this century following the Porcupine rush, no trenches or evidence of previous workings were discovered. The large tracts of thick alder and cedar swamps no doubt has hindered exploration in the past. Several companies exploring for base metals may have flown airborne electromagnetic surveys in the 1960's and 1970's, but there is no record of any ground follow-up on the Bruce Ferrier Creek Group.

In the spring of 1990, the G. S. W. Bruce 1990 Prospecting Grubstake discovered extensive zones of carbonatization and pyritization on the Ferrier Creek road. Following the acquisition of the claims, detailed resampling of the anomalous zones was carried out, as well as further sampling of other alteration zones in the vicinity. Most of this second phase of sampling was composed of cutting moiled chip samples across the strike of the individual mineralized zones. At the same time as this sampling was being carried out the outcrops in the showing area were geologically mapped. All of this data, that is, the work performed by the G. S. W. Bruce 1990 Prospecting Grubstake plotted on a scale of 1:500, was made available to the author, and is included here as DWG. NO. GS2-5A.

## GENERAL GEOLOGY

English Township is underlain by rocks of the Abitibi volcanic belt, part of the Superior Province of the Canadian Shield. Regional metamorphism is middle greenschist facies. Rock underlying the property, according to Bright, 1984, are underlain mainly by the Upper Volcanic Formation of the Deloro Group, near the contact to the east with the overlying Middle Volcanic Formation of the Tisdale Group. It is this contact, well exposed and documented in the Timmins area, that the major gold deposits are associated with.

## PROPERTY AND ECONOMIC GEOLOGY

Two geology maps are included with this report. As mentioned previously, G. S. W. Bruce and Associates Inc. prepared a geology and sampling detail map at a scale of 1:500 to cover the area of the showing (see DWG. No. GS2-5A). No attempt was made to duplicate or remap this area, other than to tie in a number of the previously mapped and sampled outcrops near the lines and roads for accurate reference to the grid. The rest of the grid (cut at a line spacing of 100 metres and chained every 25 metres) was geologically mapped at a scale of 1:2500. Samples of bedrock were taken for lithogeochemical analysis for gold as often as was deemed necessary. A total of 84 samples (numbered WK-1 through WK-84) were collected; - 81 grid samples with 3 samples duplicated as a check on the analytical laboratory. In addition, 9 chip and grab samples (numbered A-501 through A-509) were collected for gold assay. DWG. No. EEC02-002 details the results of the geology and lithogeochemistry.

The bulk of the geologic mapping was carried out from August 29 through September 9, 1990. Drafting, report preparation, and check traverses were carried out from Oct 25 through November 5, 1990. All the current work was performed by William Kerr, whose address for service is contained in the Certificate of Qualifications appended to this report.

The outcrop density on this property is quite variable. There are a number of small outcrops in the main showing area that were exposed by the road building operations, but generally on a property scale it is low. There are extensive cedar and alder swamps throughout the property in between the more resistant bedrock ridges that effectively mask large areas of the property.

A very brief description of the major rock types found will be followed by a discussion of those areas of more important economic interest.

Mafic volcanics, unit 3 on the 1:2500 geology map, were the predominant rock type found, and were widely distributed throughout the property. Most of the outcrops displayed a massive texture, though locally several were tuffaceous. Alteration varied from light fracture controlled calcite along planes to pervasive calcification through to ankerite. Several outcrops in the more structurally deformed areas showed a strong shear fabric, in a general east-west direction, especially on the weathered surface.

Intermediate volcanics, unit 4, were found only in localized areas, proximal to the north and south boundaries of the northeast trending diabase dyke. The individual outcrops were commonly tuffaceous and locally well banded. Except for a light degree of calcite alteration, this unit was relatively fresh looking.

Only rare outcrops of felsic volcanics, unit 5, were found. There were a greater concentration found in the immediate area of the road showing, but the economic significance of this is not known.

Two apparently separate bands of iron formation, unit 7, were located on line 49+00E. They are primarily chert-magnetite, and represent interflow horizons rather than a major sedimentary unit. Their only significance may lie in their being used as a marker horizon should a magnetometer survey be carried out.

Isolated bands and lenses of rocks of dioritic material,

unit 11, were sporadically present, but other than being a mappable unit are not deemed to be of economic significance.

Minor felsic intrusives were classified according to the following system:

- 12a feldspar porphyry
- 12b quartz porphyry
- 12c quartz feldspar porphyry
- 12d felsite
- 12e syenite

These rocks were widely distributed throughout the property, though they often were not correlatable for more than a few hundred metres. The syenitic phase commonly was associated with ankeritic alteration in both the syenite and the enclosing rocks. A unit of quartz porphyry, extending east-northeast from the road showing, was geochemically anomalous in gold while showing little, if any, evidence of carbonatization.

A crosscutting diabase, unit 15, extends from the northeast corner of the property to the southwest. It commonly is quite coarse grained in the centre, and exhibits chilled margins.

Numerous zones of carbonatization were located during the grid mapping. The general north-central portion of the property shows evidence of pervasive calcite alteration, although this type of alteration was found in limited areas elsewhere on the property. Ankeritic carbonatization was observed directly associated with the syenitic intrusives and also was observed crosscutting the basaltic to intermediate volcanic stratigraphy.

A strong, narrow zone of carbonatization and accompanying fuchsitic alteration was located in the north central part of the map area. It may be associated with a similar striking ankeritic syenite lense. Although both the assays and analyses were generally low, several samples were anomalous and this remains a very good geologic target that deserves more work.

The road showing is part of a much larger alteration zone in which individual outcrops are completely altered by a combination of ankeritic carbonatization, pervasive calcite, pyritization,



sericitization, and local shearing. Quite an extensive gold geochemical alteration halo is associated with this zone, which is in itself quite promising. This zone is part of a strong hydrothermal alteration system, and deserves much more detailed and intensive work.

#### CONCLUSIONS AND RECOMMENDATIONS

There are a number of separate and distinct alteration zones located on the property. The different alteration styles observed were carbonatization (both calcite and/or ankerite), pyritization, chrome-mica alteration, and sericitization. Some are quite limited in extent, i.e., outcrop scale, but there appear to be two separate zones that are laterally continuous. The road showing, as discovered by the G. S. W. Bruce Prospecting Grubstake, is distinguished by strong disseminated pyritization enclosed in an ankeritic halo. This remains the best target area as yet identified on the property from the limited work done to date.

It is the writers opinion that the combination of reproducible high gold values, alteration, and stratigraphic position definitely warrants a drill programme. However, it would be prudent to try and further define targets prior to the drill stage. The following multi stage approach is proposed:

- 1- The thin overburden cover, excellent access, and ready availability of water near the main showing provides good conditions for a power stripping and washing programme followed by detailed mapping and channel sampling. This would be a relatively cost effective method to determine the geologic and structural controls of the gold mineralization.


- 2- As, from the information to date, the gold is apparently associated with heavy disseminated pyrite mineralization, an IP survey would help to define any strike extent to the road showing, in addition to locating other unexposed zones on the property.

- 3- The property has been prospected by the G. S. W. Bruce 1990

Prospecting Grubstake prior to the grid being cut, and geologically mapped at 100 metre line spacings. There were a number of interesting looking outcrops and several high lithogeochemical results that need to be followed up. It is suggested that basic prospecting will further define several of these areas and may well locate other zones that have been missed.

4- South of the property there are outcrops of carbonatized ultramafic rocks that are interpreted by Pyke (1978) to correlate with Tisdale Group Volcanics. As previously mentioned, this particular stratigraphic horizon is extremely important to the gold mineralization in the Timmins camp. The presence of chrome mica also points to an ultramafic source nearby. A ground magnetometer survey would probably indicate if these rocks are present on the property, in addition to helping with stratigraphic control.

Respectfully Submitted  
EXPLOITS EXPLORATION CORPORATION



William C. Kerr, B.Sc.  
Geologist

**REFERENCES:**

Bright, E. G., 1984:

Geology of the Ferrier Lake-Canoeshed Lake Area,  
District of Sudbury, Ontario; Ontario Geological  
Survey Report 231, 60p. Accompanied by Maps  
2289, 2290, 2291, scale 1:31,680.

Pyke, D. R., 1978:

Geology of the Peterlong Lake Area, District of  
Sudbury, Ontario; Ontario Geological Survey  
Report 171, 53p. Includes map 2345, scale 1:50,000.

**APPENDIX 1**

**SAMPLE LOCATIONS AND RESULTS**

Sample number	Coordinates	ppb gold
WK-1	61+00E, 0+25N	8
WK-2	61+00E, 0+25N	5
WK-3	61+00E, 2+00S	<1
WK-4	60+00E, 3+25S	14
WK-5	60+00E, 3+25S	9
WK-6	60+00E, 2+00S	4
WK-7	60+00E, 0+25S	<1
WK-8	59+00E, 1+30N	<1
WK-9	58+00E, 0+15S	7
WK-10	58+00E, 0+20S	<1
WK-11	58+00E, 1+00S	<1
WK-12	58+00E, 6+10S	<1
WK-13	59+00E, 5+00S	<1
WK-14	59+00E, 4+50S	<1
WK-15	59+00E, 1+50S	3
WK-16	59+00E, 0+25S	<1
WK-17	56+00E, 3+00S	<1
WK-18	56+00E, 1+70S	2
WK-19	56+00E, 3+75N	<1
WK-20	56+00E, 4+00N	<1
WK-21	57+00E, 0+75S	1
WK-22	57+00E, 2+00S	<1
WK-23	57+00E, 2+50S	6
WK-24	57+00E, 4+20S	<1
WK-25	57+00E, 6+20S	2
WK-26	57+00E, 6+50S	<1
WK-27	56+00E, 8+75S	<1
WK-28	56+00E, 4+55S	<1
WK-29	55+00E, 3+10S	<1
WK-30	55+00E, 4+00N	<1
WK-31	55+00E, 7+60N	<1
WK-32	54+80E, 7+70N	<1
WK-33	54+00E, 7+60N	1
WK-34	54+00E, 5+90N	<1
WK-35	54+00E, 2+45N	2
WK-36	54+00E, 1+55N	<1
WK-37	54+00E, 1+30S	<1
WK-38	54+00E, 3+00S	<1
WK-39	54+00E, 5+65S	<1
WK-40	Duplicate of WK-22	<1
WK-41	54+25E, 9+00S	<1
WK-42	55+00E, 9+00S	<1
WK-43	52+00E, 0+50S	<1
WK-44	52+00E, 2+00N	<1
WK-45	52+00E, 4+20N	1
WK-46	52+00E, 4+75N	2
WK-47	52+00E, 6+50N	<1
WK-48	53+00E, 7+00N	3
WK-49	53+00E, 7+00N	<1
WK-50	53+00E, 4+60N	<1
WK-51	52+00E, 3+50S	9
WK-52	52+00E, 1+20S	<1

Sample number	Coordinates	ppb gold	
WK-53	51+00E, 0+40S	<1	
WK-54	51+00E, 0+10S	93	
WK-55	51+00E, 2+00N	2	
WK-56	51+00E, 3+75N	2	
WK-57	51+00E, 4+00N	12	
WK-58	51+00E, 5+25N	6	
WK-59	50+00E, 4+75N	<1	
WK-60	Duplicate of WK-38	<1	
WK-61	50+00E, 4+25N	7	
WK-62	50+00E, 2+10S	1	
WK-63	50+00E, 4+00S	3	
WK-64	51+00E, 3+75S	<1	
WK-65	49+00E, 1+35N	8	
WK-66	49+00E, 3+15N	2	
WK-67	49+00E, 3+25N	24	
WK-68	49+00E, 3+80N	30	
WK-69	49+00E, 3+85N	4	
WK-70	48+00E, 3+25N	<1	
WK-71	48+00E, 0+15S	5	
WK-72	48+00E, 0+85S	14	
WK-73	49+00E, 1+30S	<1	
WK-74	47+00E, 2+00N	5	
WK-75	47+00E, 3+00N	<1	
WK-76	46+00E, 2+50N	5	
WK-77	46+00E, 2+50N	<1	
WK-78	46+00E, 1+50N	<1	
WK-79	44+00E, 0+25S	<1	
WK-80	Duplicate Of WK-59	<1	
WK-81	45+00E, 3+40N	<1	
WK-82	62+50E, 0+00	6	
WK-83	58+00E, 4+80N	4	
WK-84	53+00E, 1+50S	1	
A-501	61+00E, 0+25N	6	.70 metre chip
A-502	59+00E, 5+00S	<1	1.0 metre chip
A-503	54+80E, 7+70N	<1	grab
A-504	54+25E, 9+00S	26	grab
A-505	53+00E, 7+00N	<1	grab
A-506	53+00E, 7+00N	<1	0.70 metre chip
A-507	51+00E, 4+00N	91	grab
A-508	50+00E, 4+25N	<1	0.70 metre
A-509	49+00E, 3+85N	52	grab

**APPENDIX II**

**Certificate of Qualifications**

CERTIFICATE OF QUALIFICATIONS

THIS IS TO CERTIFY THAT:

I currently reside at 1010 Michener Boulevard, South Porcupine, Ontario, P0N 1H0.

I am a graduate of the University of New Brunswick, Fredericton, New Brunswick, with a Bachelor of Science degree, major- Geology, completed 1975.

I have been actively involved in the Canadian mining industry since 1972 and have been employed full time as a Geologist since 1975.

I am a member of the Prospectors and Developers Association of Canada, and a Fellow of the Geological Association of Canada.

This report is based upon my own observations while working on the property, and on a study on Ministry of Northern Development and Mines Assessment records and published geological maps and reports on the area.

I have no interest, direct or indirect, in the property described, nor do I anticipate any such interest.

South Porcupine, Ontario  
November 5, 1990



William C. Kerr, B. Sc



**APPENDIX III**

**PROPOSED BUDGET**

PROPOSED BUDGET

1-	Power stripping and washing	
	20 days at \$1,500.00/day	\$30,000.00
	Mapping, channel sampling,	
	stripping supervision	\$10,000.00
	Assays	
	500 samples at \$10.75	\$5,375.00
	Accommodation, supplies, transportation	
	freight, communication	\$10,000.00
	TOTAL-	\$55,375.00

2-	IP survey	
	25 line kilometres at \$1,400.00	\$35,000.00

3-	Magnetometer survey	
	25 line kilometres at \$160.00	\$4,000.00

4-	Prospecting	
	2 months work, all camp and technical	
	supplies, 2 man crew	\$8,000.00

----- TOTAL--\$102,375.00

Diamond Drilling

2,500 metres at all inclusive \$50.00/metre	\$125,000.00
Drill supervision, assays, freight	
communication, etc. \$10.00/metre	\$25,000.00

-----TOTAL DRILLING \$150,000.00

GRAND TOTAL \$252,375.00

**Report of Work** 2.  
**Mining Act** (Geophysical, Geological and Geochemic)



900

Type of Survey(s) **Geological** M  
Recorded Holder(s) **G.S.W. Bruce**  
Address **11 Collingsbrook Blvd. Agincourt, Ontario M1W-1L5** Telephone No. **(416) 493-1973**

Survey Company **EXPLOITS EXPLORATION CORPORATION**  
Name and Address of Author (of Geo-Technical Report) **POW 140 William C. Kerr 1010 Michener Blvd. South Porcupine, Ont** Date of Survey (from & to) **29, 8, 90 5, 11, 90**

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 - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	40
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical - Electromagnetic - Magnetometer - Other	Days per Claim
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic Magnetometer Other	Days per Claim

Mining Claim		Mining Claim		Mining Claim	
Prefix	Number	Prefix	Number	Prefix	Number
P	1154640				
P	1154641				
P	1154642				
P	1154643				
P	1154644				
P	1154645				
P	1154646				
P	1132671				
P	1132672				
P	1132673				
P	1132674				
P	1132675				
P	1132676				
P	1132677				
P	1133185				
P	1133186				

**RECEIVED**  
**NOV 30 1990**  
**MINING LANDS SECTION**  
**RECORDED**  
**NOV 21 1990**

Total miles flown over claim(s) \_\_\_\_\_  
Date **19 Nov 1990** Recorded Holder or Agent (Signature) *G.S.W. Bruce*

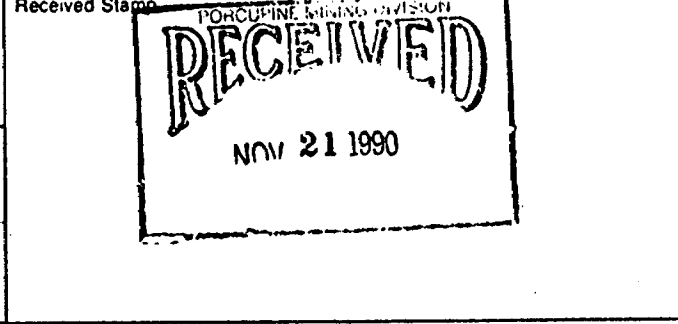
Total number of mining claims covered by this report of work. **16**

**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 **William C. Kerr 1010 Michener Blvd. South Porcupine, Ontario POW 140**  
Telephone No. **(705)235-2405** Date **Nov. 5, 1990** Certified By (Signature) *[Signature]*

**For Office Use Only**  
Total Days Cr. Recorded **640**  
Date Recorded **Nov. 21 1990** Mining Recorder **Robert [Signature]**  
Date Approved as Recorded **March 18/91** Provincial Manager, Mining Lands **[Signature]**



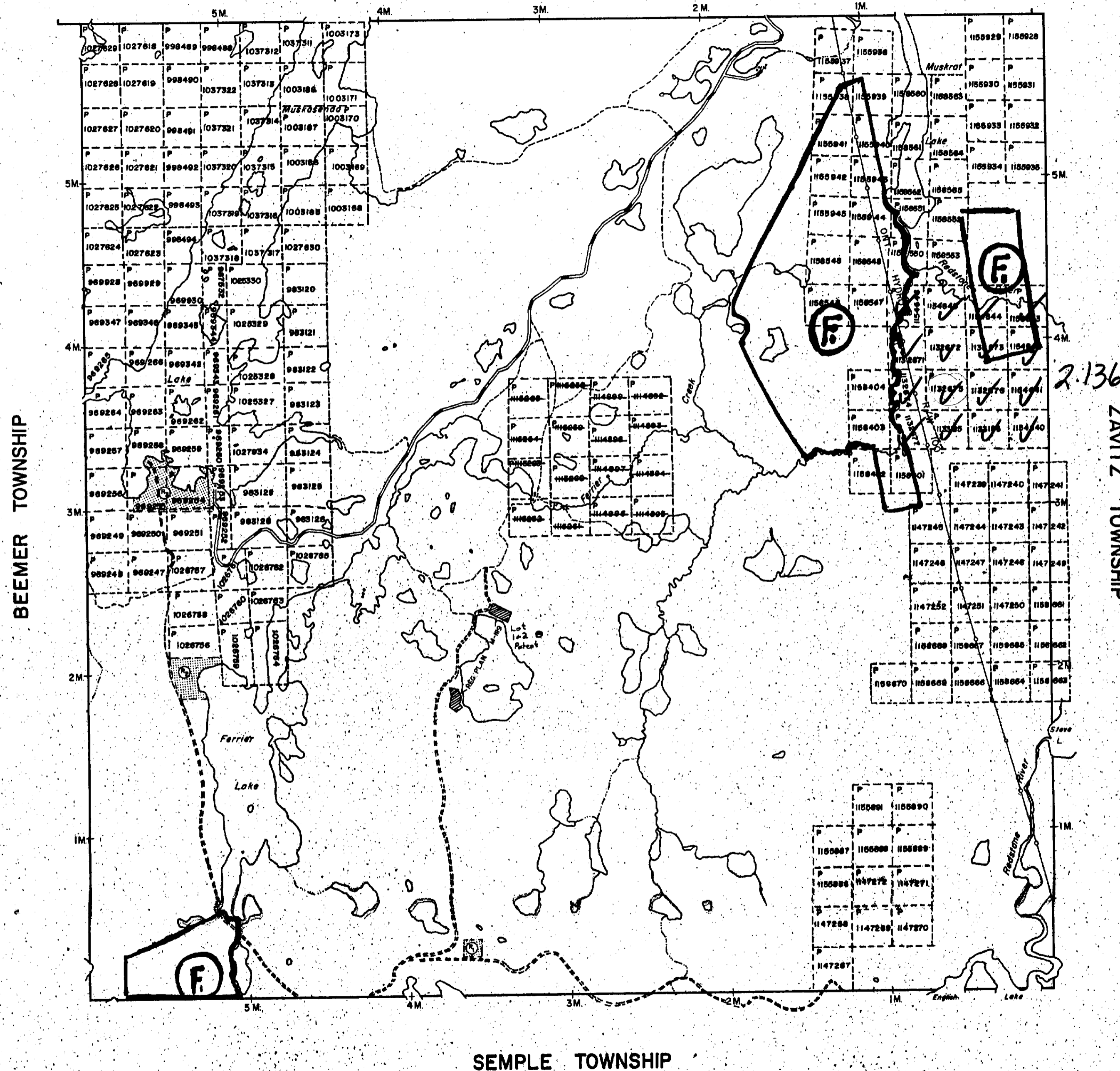
# REFERENCES

## 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.	83582
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



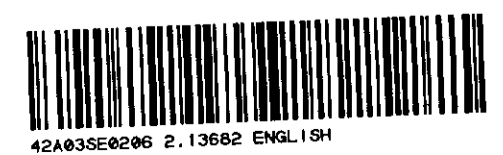
BEECHER TOWNSHIP

ZAVITZ TOWNSHIP

SEMPLÉ TOWNSHIP

**RECEIVED**  
 OCT 22 1990

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 CON



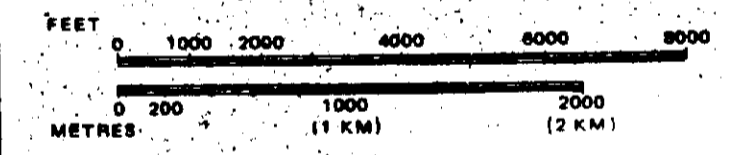
# LEGEND

- 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  
 Ministry of Northern Development and Mines

Date: SEPTEMBER 1990  
 ACTIVATED: SEPT. 25/90.  
 SR.

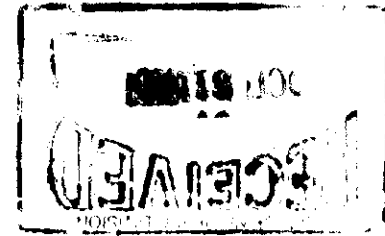
Number  
**G-300**

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

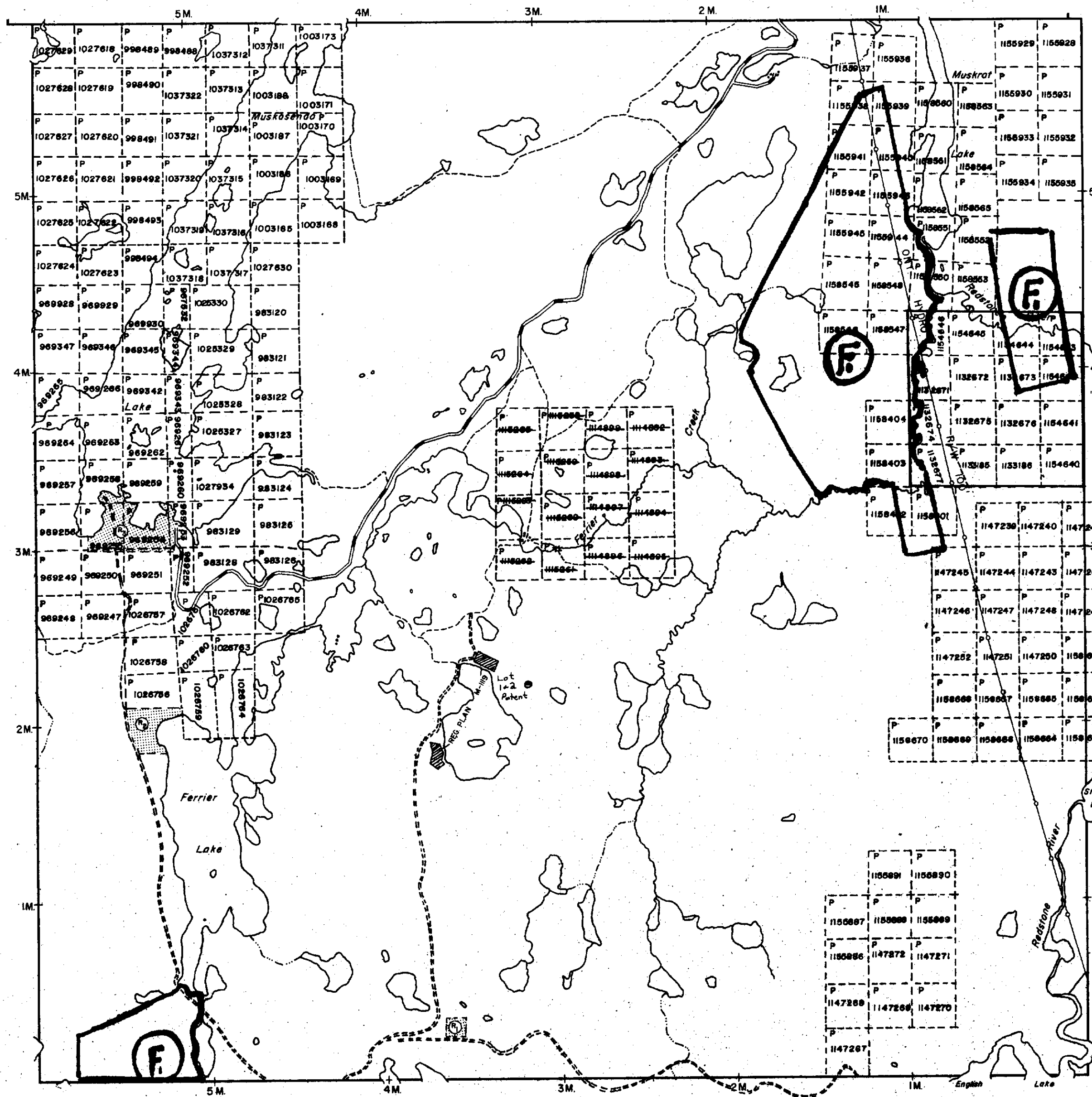
M.R.O. - MINING RIGHTS ONLY  
 S.R.O. - SURFACE RIGHTS ONLY  
 M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
SEC. 36/80	W. 18 / 77	28/02/77	S.R.O.	83582
SEC. 36 / 80	W. 19 / 78	10/04/78	S.R.O.	188543
SEC. 36/80	W. 30 / 78	02/06/78	S.R.O.	192219



BEEMER TOWNSHIP

BARTLETT TOWNSHIP



SEMPLÉ TOWNSHIP

ZAVITZ TOWNSHIP

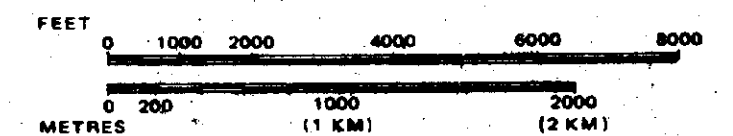
LEGEND

- 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	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

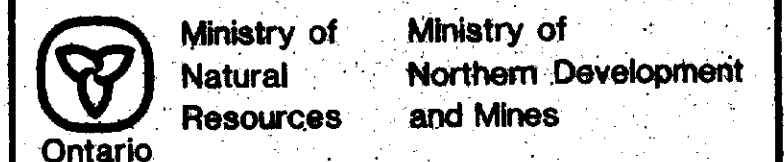
SCALE: 1 INCH = 40 CHAINS



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

D.G. NO. 33002-001

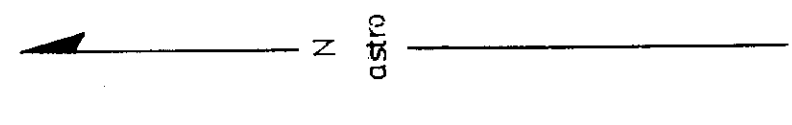
TOWNSHIP  
**ENGLISH**  
 M.N.R. ADMINISTRATIVE DISTRICT  
 TIMMINS  
 MINING DIVISION **2.13682**  
 PORCUPINE  
 LAND TITLES / REGISTRY DIVISION  
 SUDBURY



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

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 RECORDS, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE



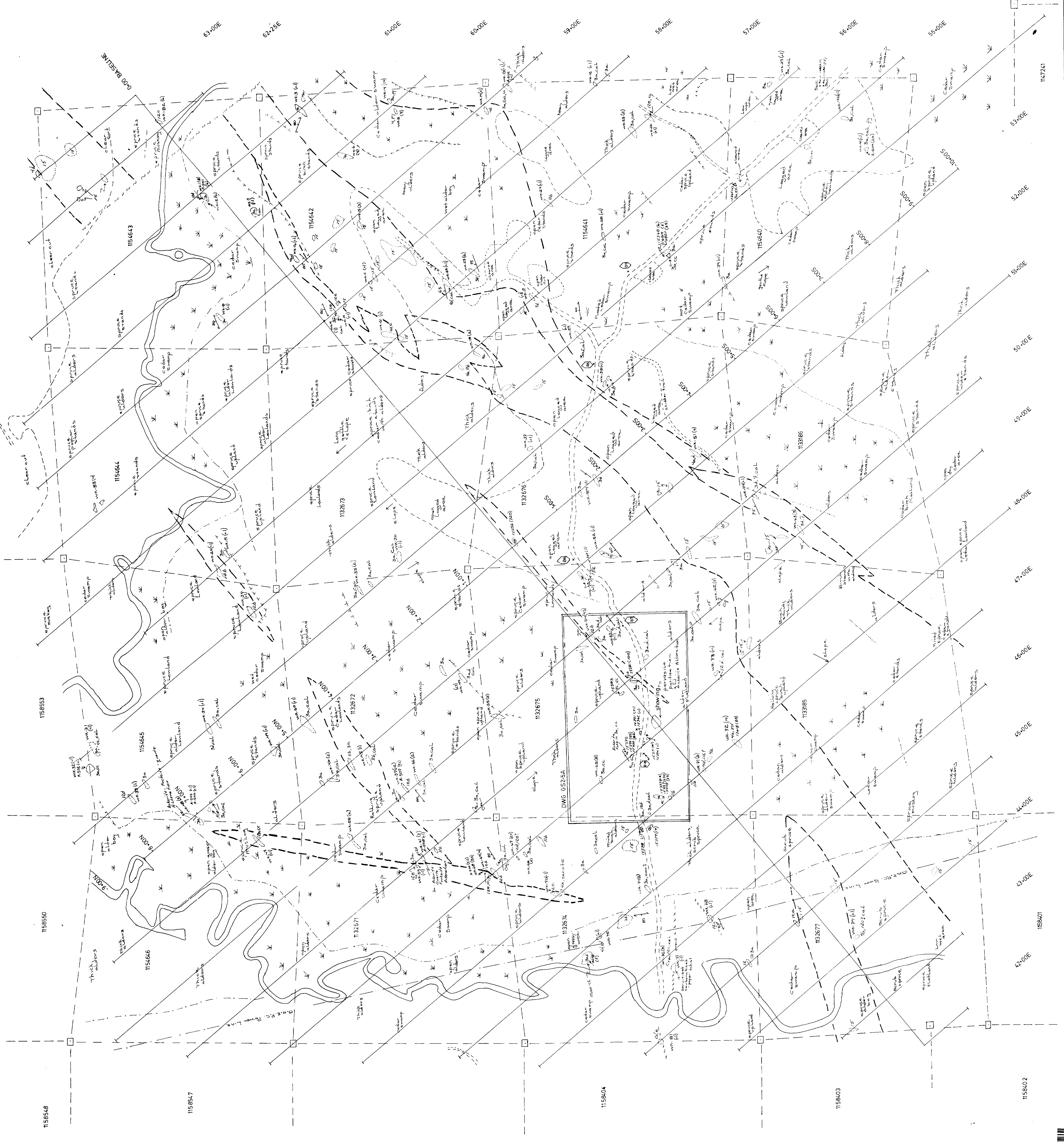


LEGEND

- SYMBOLS**
- x small outcrop
  - o large outcrop
  - topographic boundary - strong, weak
  - swamp
  - claim post, claim line
  - contact: defined, assumed
  - bedding attitude, vertical, dip unknown, dip inclined
  - foliation attitude, vertical, dip unknown, dip inclined
  - location marker
  - road
  - stream
  - wave (l) sample number, gold analysis in ppb
  - A.S.O. (g) sample number, gold assay in ppb
  - calc
  - cc carbonatized (ankerite)
  - PJ pyrite
  - shear zone or fault: defined, assumed
  - (238.9/100) sample number, gold analysis in ppb GSW Bruce series
  - A float

GEOLOGY

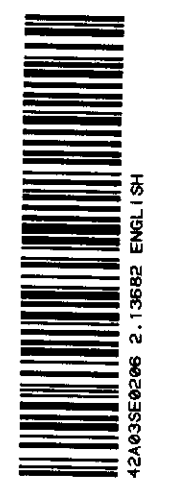
- 15 Diabase
- 12 Minor felsic intrusives
- 12a feldspar porphyry
- 12b quartz porphyry
- 12c quartz feldspar porphyry
- 12d felsite
- 12e syenite
- 11 Mafic - intermediate intrusives
- 11a quartz diorite
- 11b diorite
- 7 Iron formation
- 5 Felsic volcanics
- 5a massive
- 5c foliated
- 5d tuffaceous
- 5e pyroclastics
- 4 Intermediate volcanics
- 4a massive
- 4b pillowed
- 4c foliated
- 4d tuffaceous
- 4e pyroclastics
- 3 Mafic volcanics
- 3a massive
- 3b pillowed
- 3c foliated
- 3d tuffaceous



2.13682

EXPLOITS EXPLORATION CORPORATION  
 BRUCE FERRIER CREEK GROUP  
 ENGLISH TOWNSHIP, ONTARIO  
 GEOLOGY

Scale: 1:2500  
 Date: Sept. 1990  
 NTS: 42A/3  
 Drawn by: William C. Kerr  
 Checked by: William C. Kerr  
 Project No.: REC02-002



LEGEND

- x small outcrop
- large outcrop or outcrop cluster
- ▨ rubble
- △ float
- B7 pace-compass survey station
- topographic boundary
- claim line, claim post
- swamp
- drainage, creek
- contact: defined, assumed
- shear zone or fault: defined, assumed
- bedding attitude: vertical, dip unknown, inclined
- foliation attitude: vertical, dip unknown, inclined
- lineation attitude
- sample location
- 15382 (A) sample #, showing true or (approximate) north
- claim post
- location, described in text or elsewhere
- T topographic linear
- M magnetic linear
- A electromagnetic conductor: A = air, G = ground

ABBREVIATIONS

- aglon. agglomerate
- alt. alternation
- anf. anfract.
- apl. split (loc)
- bas. basic
- bica. breccia
- cbz. carbonate
- cl. clastic
- cl. clastic (loc)
- con. consolidated
- c. coarse
- dac. dacite
- diab. diabase
- dar. charite
- etr. extr.
- fy. pyrite
- fo. fomite
- fol. foliation (local)
- f. fine
- g. gneiss (loc)
- g. gneiss (loc)
- g. gneiss (loc)
- g. granite (loc)
- g. granitic
- int. intermediate
- intr. intrusive
- l.f. iron formation
- maf. mafic
- diab. diabase
- dar. charite
- mass. massive
- m. medium
- occs. occasional
- py. porphyry (loc)
- py. pyrite
- volc. volcanic
- w. weak weather (loc)
- W. with

2.13682

"ROAD SHOWING"

G.S.W. BRUCE & ASSOCIATES INC.

GRUBSTAKE # 2 - 1990

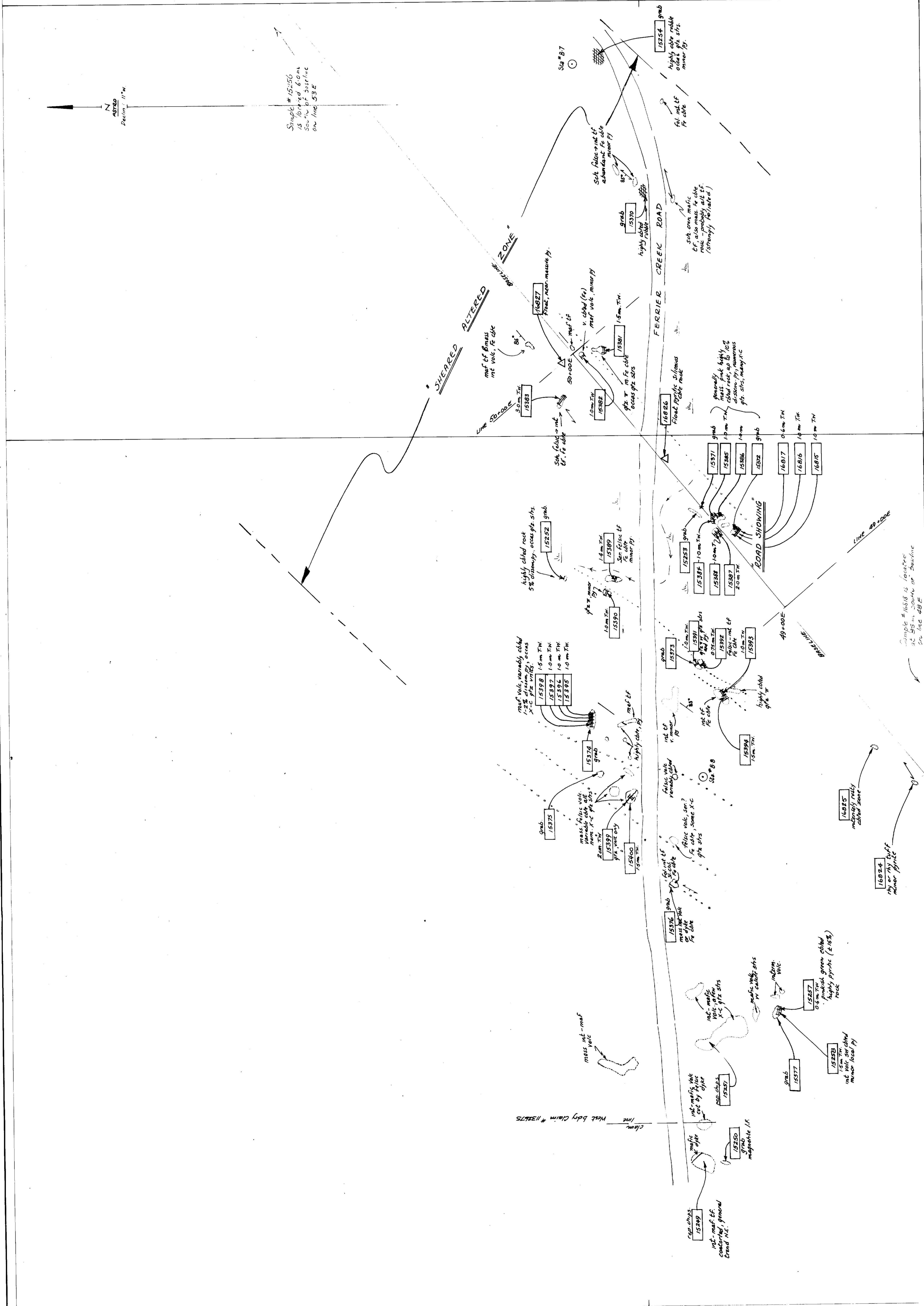
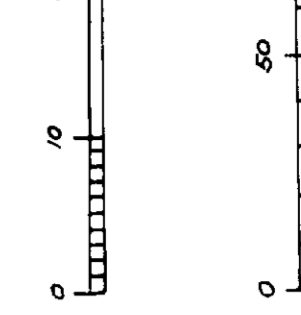
GEOLOGY & SAMPLING DETAIL

FERRIER CREEK RD., ENGLISH TWP

GRAPHIC SCALE: See above (1:500)

BY DATE REV. DWG. NTS

G.S.M.B. 4-23-1990 2/24/90 63-2-5A 42A/B



ASSAY RESULTS

For sample descriptions see Appendix 2

Sample #	Remarks	Assay	Sample #	Remarks	Assay
15370	grab	65	15385	mailed chip	300
15371	grab	2600	15386	mailed chip	300
15372	grab	1000	15387	mailed chip	310
15373	grab	97	15388	mailed chip	20
15374	grab	210	15389	mailed chip	13
15375	grab	45	15390	mailed chip	9
15376	grab	12	15391	mailed chip	33
15377	grab	25	15392	mailed chip	180
15378	grab	4	15393	mailed chip	190
15379	grab	19	15394	mailed chip	89
15380	grab	100	15395	mailed chip	20
15381	grab	4	15396	mailed chip	702
15382	grab	6	15397	mailed chip	490
15383	grab	4	15398	mailed chip	35
15384	mailed chip	360	15399	mailed chip	700
			15400	mailed chip	400