

41115NW9290 2.14961 FRALECK

010

REPORT  
ON THE  
1992 EXPLORATION PROGRAM  
FRALECK TOWNSHIP PROPERTY  
SUDBURY MINING DIVISION  
ONTARIO  
FOR  
JOHN G. BRADY

**2.14961**

*Qval 2.1503*  
Norwin Geological Ltd.  
December 16, 1992

RECEIVED

MAR 29 1993

MINING LANDS BRANCH

TABLE OF CONTENTS



41115NW9290 2.14961 FRALECK

010C

	PAGE
1. INTRODUCTION	1
2. SUMMARY	1
3. PROPERTY	3
3.1 CLAIM DESCRIPTION	3
3.2 LOCATION AND ACCESS	3
3.3 TOPOGRAPHY AND VEGETATION	4
4. PREVIOUS WORK IN THE AREA	4
5. REGIONAL GEOLOGY	5
6. 1992 EXPLORATION PROGRAM	6
6.1 WORK DONE	6
6.2 MAGNETOMETER SURVEY RESULTS	7
6.3 VLF-EM SURVEY RESULTS	8
6.4 GEOLOGICAL MAPPING	8
7. INTERPRETATION AND CONCLUSIONS	11
8. RECOMMENDATIONS	12
3 MAPS	
REFERENCES	
CERTIFICATE OF QUALIFICATION	
APPENDIX 1	
APPENDIX 2	

## 1. INTRODUCTION

The Fraleck township property consists of 9 claims containing 14 units of 16 hectares, in the southeastern quadrant of Fraleck township, approximately 22 kilometres north-northeast of Capreol, Ontario in the Sudbury Mining Division (Figure 1).

The subject claim group was acquired for its potential for copper, nickel, platinum, palladium, gold, <sup>and</sup> silver mineralization associated with a north to north-northwest trending mafic intrusive. Immediately south of the property, mineralized boulders in the Wanapitei River yielded anomalous values in platinum and palladium (pers. comm., John Brady).

Norwin Geological Ltd. was requested by Mr. Brady to carry out a program of line-cutting, magnetometer and EM surveys and geological mapping. The work was carried out between November 15 and December 15, 1992. The following report outlines the work carried out, the results obtained and presents recommendations for additional work.

## 2. SUMMARY AND RECOMMENDATIONS

A grid consisting of 10.1 line-km was laid out covering six, 16 hectare units with the baseline running north-south and crosslines east-west at 100 metre intervals. The grid was covered by a magnetometer survey, a VLF-EM survey and the area was geologically mapped.

The geological mapping confirmed the geology as reported by Meyn (1971) in which a Nipissing-type diabase of late Proterozoic age and approximately 200 to 250 metres wide occurs as a sill-like body trending north-south through the central and western part of the property. The sill intrudes the Huronian Supergroup sediments close to the upper contact of the Bruce

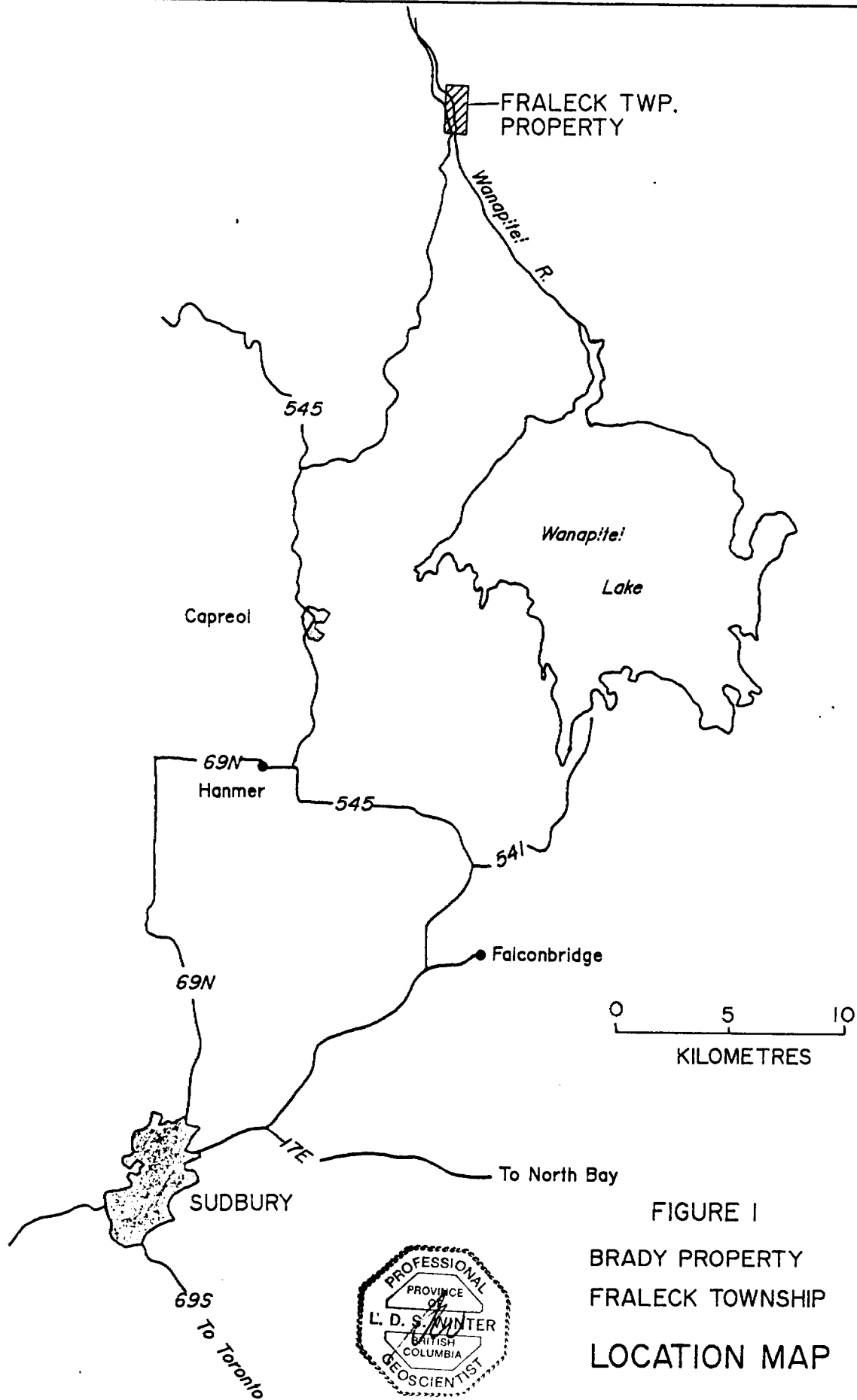
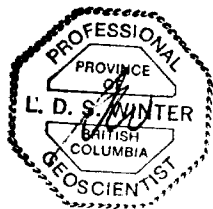


FIGURE 1  
 BRADY PROPERTY  
 FRALECK TOWNSHIP  
 LOCATION MAP



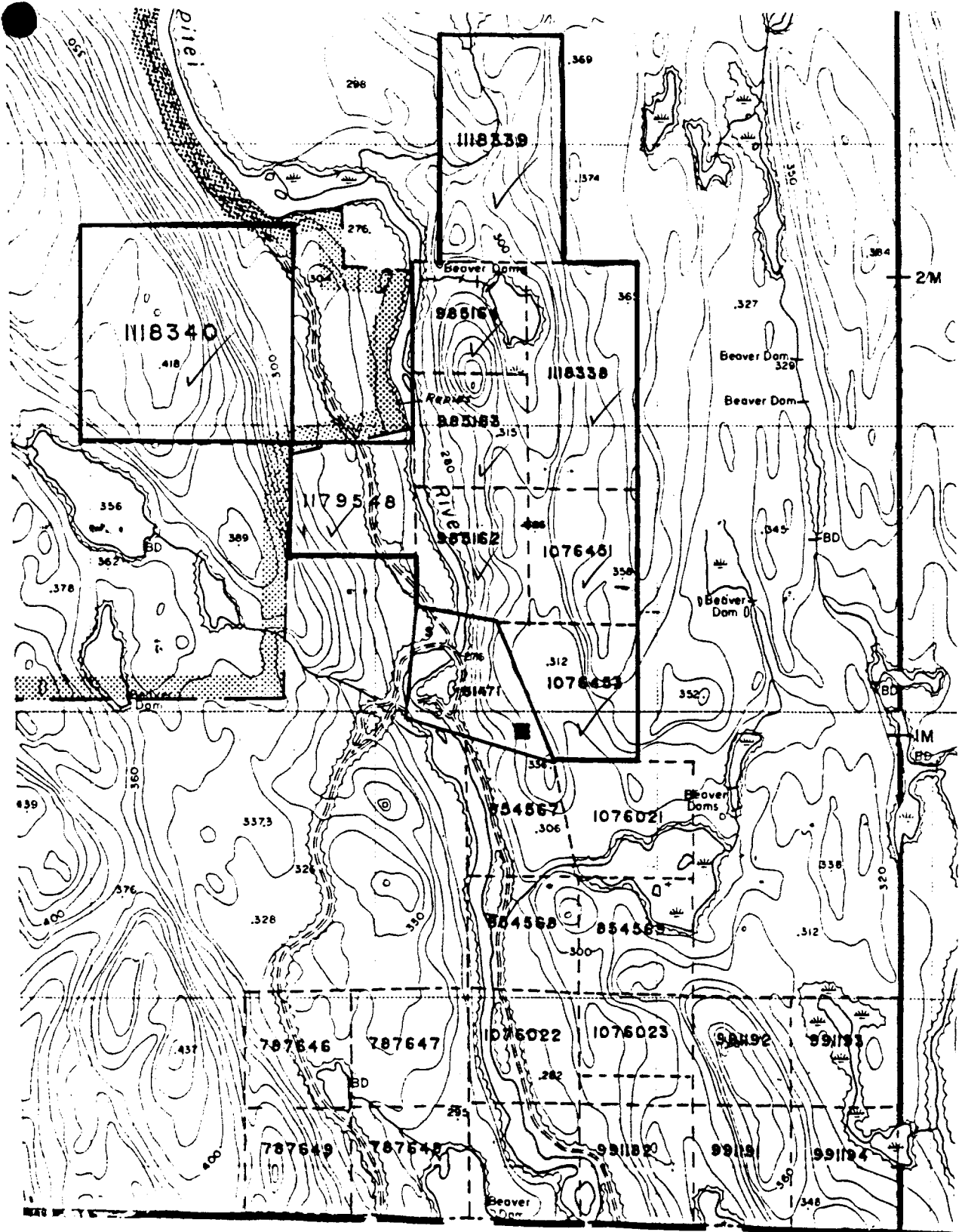


FIGURE 2  
 CLAIM MAP - BRADY PROPERTY  
 FRALECK TWP.

SCALE: 1 : 20,000

DEC., 1992



formation which underlies the sill. The Serpent formation overlies the Bruce formation and the sill to the east. All units dip moderately to steeply to the east. Major faulting is interpreted to be north-south with subsidiary north-northeast to northeast trending structures.

The magnetometer survey indicated four areas of magnetic lows adjacent to the diabase contact, two of which are associated with chalcopyrite and pyrrhotite mineralization. One of these lows immediately east of the Wanapitei River between lines 8N and 7N may be the source of the platinum-palladium bearing boulders located in the Wanapitei River. This in conjunction with the observed mineralization and the magnetic lows which appear to correspond to sulphide mineralization indicate that additional work is warranted to further evaluate the property.

An IP survey is proposed to fully define areas of disseminated mineralization prior to stripping and sampling and/or diamond drilling. In addition, it is recommended that the remainder of the property be mapped and covered by geophysical surveys as a means of locating additional areas of potential mineralization.

### 3. PROPERTY

#### 3.1 CLAIM DESCRIPTION

The property consists of 9 contiguous, unpatented mining claims covering approximately 225 hectares which are listed below and which are shown in Figure 2 after claim Map G-4050, Fraleck Township, Ministries of Natural Resources and Northern Development and Mines. The claims are in good standing and are held in the name of Mr. John Brady, 1227 Holland Road, Sudbury, Ontario.

Table 1  
Fraleck Township Claims

<u>CLAIM NUMBERS</u>	<u>NUMBER OF CLAIMS</u>
985162 to 985164 inclusive	3
1076451 and 1076453	2
1179548	1
1118338 and 1118339 (total of 4 units)	4
1118340 (4 units)	<u>4</u>
TOTAL OF 9 CLAIMS AND	14 UNITS

#### 3.2 LOCATION AND ACCESS

The Fraleck township property is located at 46° 54'N latitude, 80° 50'W longitude in Fraleck township, District of Sudbury, Sudbury Mining Division approximately 22 kilometres north of Capreol and 60 kilometres north of Sudbury, Ontario.

Access to the property is by road. Provincial Hwy. 69N leads to Hanmer from which Hwy. 545 proceeds north through

Capreol and an additional 6 kilometres at which point a forest access road leads east and north, a distance of approximately 18 kilometres to the property. The property is immediately adjacent to the intersection of this forest access road, the Poupore Lumber Road and the Wanapitei River.

### 3.3 TOPOGRAPHY AND VEGETATION

The property has a very rugged topography of north-northwest trending ridges and valleys. On the western side of the property is the Wanapitei River. To the east, a steep hill rises approximately 80 metres and then descends again into the central part of the property. On the eastern edge of the property is a steep cliff leading to a second ridge to the east.

The ridges are thinly covered with soil which support jackpine and spruce. Cedars, alders and spruce are common in the low-lying swampy areas.

### 4. PREVIOUS WORK IN THE AREA

Immediately south of the property H. Barry and L. Towers in 1949 held a group of claims containing leased claim S-51471. At that time they carried out a limited amount of prospecting, pitting and a limited amount of diamond drilling on a vein striking N 20°W with a 65°E dip. It was traced on surface for 100 metres and had a maximum width of 0.3 metres and generally was 5 to 15 cm wide. The vein which is mainly quartz, is mineralized with galena, chalcopryrite and contains appreciable values in gold and silver. A sample taken by Thomson of the Ontario Department of Mines in 1950 assayed 12.93% lead, 1.50% copper, 1.49 ounces/t of silver and 0.91 ounces/t gold (Meyn, 1971).



In 1981, R. Larson carried out some power stripping on claims immediately to the east. In 1970, E.J. Rivers also carried out stripping in the area of the subject property. In 1987, H.V. Barry trenched in the area and reported diabase dykes and a mineralized gossan with pyrrhotite and chalcopyrite. The assay results reported are for silver only. In 1983, E. Leschishin did some backhoe stripping on the same location (Assessment Files, Sudbury).

##### 5. REGIONAL GEOLOGY

Fraleck township is underlain by Archean granites and metavolcanics which in turn are unconformably overlain by Proterozoic sediments of the Huronian Supergroup.

In the northwestern part of the township, Archean granites are the predominant rock type. Unconformably overlying them to the south are units of the Gowganda and Lorraine formations of the Cobalt group which occur in a west-northwest trending synclinal structure. In the eastern part of the township, east of the Wanapitei River, the Missassagi, Bruce, Espanola and Serpent formations of the Bruce group trend north-northwest and dip at moderate to steep angles to the east. The Gowganda formation of the Cobalt group overlies these formations to the east.

Major structures in the area trend north-northwest, northwest and east-west. The dominant structural feature is the north-northwest trending fault structure occupied by the Wanapitei River valley.

The Archean and Proterozoic units have been intruded by Nipissing type quartz diabase of late Proterozoic age.

The Fraleck township property of John Brady occurs adjacent to the Wanapitei River and is underlain by units of the Bruce and Serpent formations as well as Nipissing-type quartz diabase.

## 6. 1992 EXPLORATION PROGRAM

### 6.1 WORK DONE

A grid consisting of 10.1 line-km was laid out with lines trending east-west from a north-south baseline covering claims 985162, 985163, 985164, 1076451 and 1118338. The grid was laid out to cover the north-south trending Nipissing-type diabase and its contacts with the adjacent Bruce and Serpent formations.

Following line-cutting, the grid was covered by a magnetometer and VLF-EM survey on lines spaced at 100 metres and with readings taken at 25 metre intervals. In addition, the property was geologically mapped using the grid as a control.

The work was carried out between November 15 and December 15, 1992 under the field supervision of the writer and by personnel of Norwin Geological Ltd.

The magnetometer survey was done using an EDA-Omni Plus instrument with the total magnetic field being measured. Simultaneously, a base station magnetometer monitored the magnetic field. The VLF-EM in-phase and quadrature measurements were taken with the EDA-Omni Plus using the transmitter at Cutler, Maine, U.S.A. transmitting at a frequency of 24.0 KHz. Readings were taken every 25 metres along lines spaced at 100 metres using standard industry practices. A total of 357 stations were occupied.

## 6.2 MAGNETOMETER SURVEY RESULTS

The results of the total field magnetometer survey are shown in Map 1. The general magnetic field in the area is 58,000 nT with variations up to 214 nT below and 331 nT above this value. As shown in Map 1, the values show a north-south trend particularly in the west-central part of the property which is interpreted to be related to the Nipissing-type quartz diabase and the general trend of the sediments.

The magnetic readings generally divide the map into two areas; that east of 1+00E to 1+25E and that west of this line. To the east the magnetic values generally range between 58030 nT and 58080 nT and show a very flat relief. In a north-south trend lying within 100 m east and west of the baseline magnetic values show considerable variation and range between 58331 nT and 57759 nT. The values generally define north-south trends and appear to be associated with the eastern contact of the gabbro-diabase intrusive.

Prominent magnetic depressions are present within the area at;

- A) 0+75E: L3N to L5N
- B) 2+00W: L7N to 1+25W: L8N
- C) 0+50E: L8N to L10N
- D) 1+00W: L12N and 1+75W: L12N

Depressions A & B are associated with observed chalcopyrite-pyrrhotite mineralization and their significance will be discussed in more detail in Section 7 - Interpretation.

### 6.3 VLF-EM SURVEY RESULTS

In Map 2, the VLF-EM results are plotted using the Fraser-filter values as calculated using 4 adjacent values. The observed quadrature and in-phase results are provided in Appendix 2. There are no strongly conductive areas indicated by the survey. Increased conductivity is indicated on L8N: 0+75E and between L10N: 0+25E and L12N: 0+25W. This coincides with the interpreted eastern contact of the gabbro-dabase and in part a magnetic low. It parallels the axis of a magnetic ridge approximately 50 metres to the west. The 0 contour line running approximately north-south in the centre of the property very closely follows the eastern contact of the gabbro-dabase intrusive.

### 6.4 GEOLOGICAL MAPPING

The geological mapping was carried out along the east-west lines spaced at 100 metres with all of the lines as well as the intervening areas being mapped. During the mapping program, the rock types and any areas of alteration and mineralization were noted. In addition, structural features such as the attitude of bedding surfaces, joints, faulting and shearing were recorded.

The mapping indicated a sequence of east-dipping sediments of the Bruce and Serpent formations trending approximately north-south. These have been intruded by a Nipissing-type quartz diabase to gabbro whose eastern contact is parallel to and up to 100 m east of the baseline (Map 3).

The gabbro-dabase is a dark green to black rock of medium grain size. There are variations from this with some areas approaching a fine grain size while other areas become

coarse grained. The dominant minerals as observed in hand specimen are plagioclase, amphibole, chlorite and quartz often showing diabasic texture. Patches of granophyre were also observed within the intrusive. Based on the contact attitude the intrusive is interpreted to be a sill emplaced at the top of the Bruce formation.

In the western part of the property, only two outcrops of Bruce formation greywacke to conglomerate were observed. In outcrop, the rock is a massive, grey, fine grained greywacke containing occasional pebbles up to 2 cm in diameter. The rock generally appears to be unstratified and poorly sorted. The bedding surfaces dip at approximately 25° to the east.

Parallel to the baseline and up to 200 metres to the east, a fine-grained, grey greywacke occasionally containing fragments and pebbles up to 2 cm in diameter was observed. As one traverses to the east, the greywacke loses the pebble content and becomes more quartz-rich. By approximately 2+00E which is the location of the abrupt cliff in the eastern part of the property, the composition of the sediments has become more quartz-rich and they are considered to be arkosic to sub-arkosic in composition. Here the rock type is light grey, fine grained and can be observed to contain an appreciable quartz content. The greywacke-conglomerate is considered to be the Bruce formation with the more quartz-rich sediments to the east being the Serpent formation.

In the eastern part of the property, the general trend of the sediments is north-south with a dip varying between 20° and 75° to the east. The dips appear to steepen to the west as the Nipissing-type diabase intrusive is approached.

From the topographic features, it is considered that a fault structure is present along the western edge of the property coincident with the Wanapitei River. The abrupt valley ranging from 0+00 to 1+50E may be a parallel fault lying east of the Nipissing-type diabase eastern contact or it may represent the Bruce - Serpent formation contact.

On L9+00N: 1+50W, faulting and shearing trending 050° to 070° and dipping vertically was observed. In the northeastern part of the property, there is fracturing, linear valleys and shearing which trend north-northeast along the face of the cliff. If the valley immediately to the west is a fault these may represent subsidiary structures from the main structure.

On L8+00N: 1+50W the Nipissing-type diabase/gabbro is mineralized with up to 5% disseminated chalcopyrite and pyrrhotite. The mineralization appears to be controlled by joints trending at 065° and 160° with mineralization visible over an area of approximately 10 metres x 4 to 5 metres. This mineralization corresponds to a magnetic low approximately 150 metres long trending 045°. Granophyric material is associated with this mineralization.

Pyrite and chalcopyrite mineralization was also observed on L4N: 0+75E in an old trench in diabase close to the sediment contact. This mineralization also coincides with a magnetic low trending north-south to north-northeast and with a strike length of 200 metres.

## 7. INTERPRETATION

The geological mapping and the geophysical work have confirmed the general geological picture as described by Meyn (1971). The eastern contact of a Nipissing-type diabase-gabbro intrusive runs approximately coincident with and parallel to the baseline. The western contact is approximately 100 metres east of the Wanapitei River. This diabase has been intruded as a sill-like body into the Bruce formation which dips at a moderate to steep angle to the east. Overlying the diabase sill and the Bruce formation to the east are the Serpent formation of the Bruce group.

A north to north-south trending fault structure is interpreted along the Wanapitei River and there may be a parallel fault structure along or immediately adjacent to the eastern contact of the diabase. Observed cross-faulting trends approximately  $060^\circ$  and interpreted faulting and shearing as well as some of the magnetic patterns suggest faults or shears trending north-northeast. These may be subsidiary splays off the main north-south structures.

Four prominent magnetic lows were indicated by the magnetic survey; two along the eastern diabase contact, one between L7+00N and 8+00N adjacent to the western edge of the diabase and one at L12N; 1+00W and 1+75W. The magnetic low at lines 7N and 8N adjacent to the western contact and the magnetic low at 5+00N along the eastern contact both have chalcopyrite and pyrrhotite mineralization associated with them. The third magnetic low on L9N: 0+25E has no surface mineralization or outcrop associated with it. However, the possibility remains that this magnetic low may also indicate sulphide mineralization and associated alteration. Two magnetic lows are present on L12N immediately west of the baseline.

The VLF-EM survey did not indicate any significant areas of conductivity apart from a weak conductor along the eastern contact of the diabase at L8+00N to 12+00N.

In summary, the combined geological and geophysical program has indicated two magnetic lows with associated chalcopyrite - pyrrhotite mineralization and two additional magnetic lows that may be due to sulphide mineralization. The mineralization appears to be structurally controlled by the diabase contact and/or northeast trending structures.

#### 8. RECOMMENDATIONS

The 1992 exploration program has successfully identified two and possibly four areas of mineralization associated with the Nipissing-type gabbro-diabase within the area covered. It is recommended that these indications be followed up with more detailed work and that the balance of the property be evaluated for additional areas of mineralization. A recommended program is as follows.

1. Line-cutting, magnetometer survey and geological mapping of the balance of the property.
2. Detailed IP over areas of known and potential mineralization to outline the limits of the zones.
3. Stripping, trenching, washing, sampling, assaying and mapping in appropriate areas to evaluate geophysical / geological anomalies.
4. Diamond drilling of appropriate targets.



The objective of this work is to outline a mineralized body(s) of the appropriate size and grade that can be successfully mined.

Signed,

*LDS Winter*



L.D.S. Winter

B.A.Sc., M.Sc., P.Geo. (B.C.)

December 16, 1992

## REFERENCES

1. Meyn, H.D., 1971

Geology of Roberts, Crellman and Fraleck Townships,  
District of Sudbury, Geol. Report 91, Ontario Dept. of  
Mines, 48 p.

2. Ministry of Northern Development and Mines

Geological Data Inventory Folio GDIF 545, Fraleck  
Township.

3. Ministry of Northern Development and Mines

Assessment Files, Sudbury

CERTIFICATE OF QUALIFICATION

I, Lionel Donald Stewart Winter do hereby certify:

1. that I am a geologist and reside at 1849 Oriole Drive, Sudbury, Ontario, P3E 2W5,
2. that I am a registered geoscientist in the Association of Professional Engineers and Geoscientists of British Columbia,
3. that I am a Fellow of the Geological Association of Canada,
4. that I graduated from University of Toronto in Mining Engineering in 1957 with a Bachelor of Applied Science and from McGill University, Montreal in 1961 with a Master of Science (Applied) in Geology,
5. that I have practised my profession continuously since 1957,
6. that my report on the 1992 Exploration Program, Sudbury Mining Division, Ontario is based on my personal knowledge of the geology of the area, and on a review of information on the property and surrounding area, and supervision of the 1992 exploration program,
7. that I have no personal, direct or indirect interest in the Fraleck Township Property, Sudbury Mining Division, Ontario, or any adjacent properties, and I have written this report as a totally independent consultant.

*LDS Winter*



L.D.S. Winter

B.A.Sc., M.Sc., P.Geo.(B.C.)

December 16, 1992

APPENDIX 1

LIST OF PERSONNEL

1. Dan Patrie  
P.O. Box 45  
Massey, Ontario  
POP 1P0
  
2. Bryan Patrie  
P.O. Box 45  
Massey, Ontario  
POP 1P0
  
3. David Pilkey  
Yves Clement  
Stewart Winter  
c/o Norwin Geological Ltd.  
560 Notre Dame Avenue  
Sudbury, Ontario  
P3C 5L2

APPENDIX 2

GEOPHYSICAL DATA

# OMNI PLUS VLF/Magnetometer System

EDA



## Major Benefits of the OMNI PLUS

- Combined VLF/Magnetometer/Gradiometer System
- No Orientation Required
- Three VLF Magnetic Parameters Recorded
- Automatic Calculation of Fraser Filter
- Calculation of Ellipticity
- Automatic Correction of Primary Field Variations
- Measurement of VLF Electric Field

## Specifications

Dynamic Range	18,000 to 110,000 gammas. Roll-over display feature suppresses first significant digit upon exceeding 100,000 gammas.
Tuning Method	Tuning value is calculated accurately utilizing a specially developed tuning algorithm
Automatic Fine Tuning	± 15% relative to ambient field strength of last stored value
Display Resolution	0.1 gamma
Processing Sensitivity	± 0.02 gamma
Statistical Error Resolution	0.01 gamma
Absolute Accuracy	± 1 gamma at 50,000 gammas at 23°C ± 2 gamma over total temperature range
Standard Memory Capacity	
Total Field or Gradient	1,200 data blocks or sets of readings
Tie-Line Points	100 data blocks or sets of readings
Base Station	5,000 data blocks or sets of readings
Display	Custom-designed, ruggedized liquid crystal display with an operating temperature range from -40°C to +55°C. The display contains six numeric digits, decimal point, battery status monitor, signal decay rate and signal amplitude monitor and function descriptors.
RS 232 Serial I/O Interface	2400 baud, 8 data bits, 2 stop bits, no parity
Gradient Tolerance	6,000 gammas per meter (field proven)
Test Mode	A. Diagnostic testing (data and programmable memory) B. Self Test (hardware)
Sensor	Optimized miniature design. Magnetic cleanliness is consistent with the specified absolute accuracy.
Gradient Sensors	0.5 meter sensor separation (standard), normalized to gammas/meter. Optional 1.0 meter sensor separation available. Horizontal sensors optional.
Sensor Cable	Remains flexible in temperature range specified, includes strain-relief connector
Cycling Time (Base Station Mode)	Programmable from 5 seconds up to 60 minutes in 1 second increments
Operating Environmental Range	-40°C to +55°C; 0-100% relative humidity; weatherproof
Power Supply	Non-magnetic rechargeable sealed lead-acid battery cartridge or belt; rechargeable NiCad or Disposable battery cartridge or belt; or 12V DC power source option for base station operation.
Battery Cartridge/Belt Life	2,000 to 5,000 readings, for sealed lead acid power supply, depending upon ambient temperature and rate of readings
Weights and Dimensions	
Instrument Console Only	2.8 kg, 238 x 150 x 250mm
NiCad or Alkaline Battery Cartridge	1.2 kg, 235 x 105 x 90mm
NiCad or Alkaline Battery Belt	1.2 kg, 540 x 100 x 40mm
Lead-Acid Battery Cartridge	1.8 kg, 235 x 105 x 90mm
Lead-Acid Battery Belt	1.8 kg, 540 x 100 x 40mm
Sensor	1.2 kg, 56mm diameter x 200mm
Gradient Sensor	
0.5m separation - standard)	2.1 kg, 56mm diameter x 790mm
Gradient Sensor	
(1.0m separation - optional)	2.2 kg, 56mm diameter x 1300mm
Standard System Complement	Instrument console; sensor; 3-meter cable, aluminum sectional sensor staff, power supply, harness assembly, operations manual.
Base Station Option	Standard system plus 30 meter cable
Radiometer Option	Standard system plus 0.5 meter sensor

EDA Instruments Inc  
4 Thorncliffe Park Drive  
Toronto Ontario  
Canada M4H 1H1  
Telex 06 23222 EDA TOR  
Cable: Instruments Toronto  
(416) 425 7800

In U.S.A.  
EDA Instruments Inc  
5151 Ward Road  
Wheat Ridge, Colorado  
U.S.A. 80033  
(303) 422 9112

Printed in Canada

OMNI-PLUS Tie-line MAG/VLF V12L Ser #18080  
 VLF TOTAL FIELD DATA (Tieline corrected)  
 Date 15 DEC 92  
 Operator: 3000  
 Records: 127  
 Bat: 17.9 Volt Lithium: 3.48 Volt  
 Last time update: 12/15 12:10:00  
 Start of print: 12/15 21:56:02

Line	0	Date	15 DEC 92	21.4	#1					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA	T	
0	70.3	0.2	3803.	16.0	12:56:04	99	0.0	!		

Line	1200	Date	15 DEC 92	24.0	#4					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA	T	
0	-25.4	-6.5	56.43	-14.2	13:37:48	54	-83.4			
25	-6.5	0.6	58.59	-3.7	13:38:50	49	-79.1			
50	9.0	1.5	56.30	5.1	13:39:27	49	-81.6			
75	12.6	2.1	55.01	7.1	13:40:00	59	-84.7	-30.1		
100	18.6	5.5	55.71	10.5	13:40:30	39	-86.6	-16.2		
125	15.5	5.0	54.98	8.8	13:41:02	39	86.2	-7.1		
150	13.8	6.3	50.73	7.8	13:41:37	49	-88.6	1.0		
175	8.1	3.0	48.62	4.6	13:42:33	39	89.5	6.9		
200	4.7	0.7	48.94	2.7	13:44:54	39	87.6	9.3		
225	2.3	-0.1	48.89	1.3	13:50:12	39	86.4	8.4		
250	0.7	-0.5	48.81	0.4	13:52:30	49	77.6	5.6		
275	1.3	-0.8	48.16	0.7	13:54:23	39	89.0	2.9		
300	-0.5	-1.4	48.75	-0.3	13:55:15	59	-89.3	1.3		
325	0.4	-0.3	48.38	0.2	13:56:04	59	85.0	1.2		
350	1.3	-0.2	47.84	0.7	13:57:12	29	87.4	-0.5		
375	2.4	0.3	48.05	1.4	13:58:04	49	88.0	-2.2		

Line	1100	Date	15 DEC 92	24.0	#20					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA	T	
375	-1.3	-2.7	47.45	-0.7	14:01:05	39	89.6			
350	-1.7	-3.0	47.84	-1.0	14:02:20	39	89.7			
325	-4.0	-3.4	48.36	-2.2	14:02:58	39	89.9			
300	-4.1	-3.8	47.59	-2.3	14:04:14	49	86.6	-2.8		
275	-4.2	-3.7	47.75	-2.4	14:05:02	49	82.8	-1.5		
250	-4.4	-3.2	46.96	-2.5	14:05:48	49	87.9	-0.4		

Line	1000	Date	15 DEC 92	24.0	#26					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA	T	
200	-1.5	-0.6	45.96	-0.9	14:09:19	49	-85.3			
225	-1.2	-0.9	46.03	-0.7	14:09:58	69	-80.1			
250	-1.4	-0.7	46.97	-0.8	14:10:47	69	-87.0			
275	-1.4	-1.0	46.55	-0.8	14:11:47	59	-88.6	0.0		
300	-1.2	-1.1	46.88	-0.6	14:12:56	69	-87.9	-0.1		
325	-1.4	-1.1	46.62	-0.8	14:13:57	59	86.4	-0.2		
350	-0.4	-0.8	46.93	-0.2	14:15:02	49	-86.2	-0.4		
375	0.0	-0.6	46.33	0.0	14:16:02	59	-89.5	-1.2		
400	0.0	-0.5	47.08	0.0	14:16:31	59	84.0	-1.0		



Line	900	Date	15 DEC 92	24.0	#35					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA	T	
400	-4.5	-3.1	46.89	-2.5	14:19:27	29	-68.0			
375	-3.7	-3.7	46.79	-2.1	14:20:59	49	87.6			
350	-5.0	-4.1	46.66	-2.9	14:21:56	69	82.6			
325	-5.5	-4.3	46.60	-3.1	14:22:57	49	88.1		-1.4	
300	-5.3	-3.9	46.59	-3.0	14:23:48	29	87.3		-1.1	
275	-4.5	-3.0	46.42	-2.6	14:24:43	59	-84.9		0.4	
250	-3.5	-2.8	46.42	-2.0	14:25:28	49	83.4		1.5	

Line	800	Date	15 DEC 92	24.0	#42					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA	T	
250	-1.2	-0.4	46.47	-0.6	14:27:10	59	-87.0			
275	-1.6	-0.4	46.37	-0.9	14:27:48	59	-89.2			
300	-2.4	-0.5	45.98	-1.3	14:28:44	59	81.4			
325	-2.3	-0.7	46.16	-1.3	14:29:42	69	83.3		1.1	
350	-3.5	-0.6	46.82	-2.0	14:32:08	69	65.3		1.1	
375	-2.0	-0.7	46.98	-1.1	14:34:11	59	81.7		0.5	
400	-1.2	-0.7	46.97	-0.7	14:35:15	49	78.4		-1.5	
425	-1.9	-1.3	47.03	-1.0	14:36:19	49	88.2		-1.4	

Line	700	Date	15 DEC 92	24.0	#50					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA	T	
450	-2.7	-2.8	46.61	-1.5	14:39:53	59	-83.0			
425	-3.0	-2.5	46.55	-1.7	14:41:06	59	-88.2			
400	-3.4	-2.7	46.62	-1.9	14:42:59	59	87.8			
375	-3.8	-2.9	46.59	-2.2	14:43:15	49	86.5		-0.9	
350	-4.5	-3.1	46.34	-2.5	14:44:09	59	86.1		-1.1	
325	-4.7	-2.5	46.20	-2.7	14:44:57	49	-87.0		-1.1	
300	-4.6	-2.4	46.65	-2.6	14:45:44	59	-86.6		-0.6	
275	-5.2	-2.2	46.91	-3.0	14:46:33	59	-89.8		-0.4	
250	-5.3	-2.5	47.33	-3.0	14:47:00	69	-87.7		-0.7	

Line	600	Date	15 DEC 92	24.0	#59					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA	T	
250	-1.8	0.5	46.35	-1.0	14:51:10	49	85.4			
275	-1.3	0.4	46.71	-0.7	14:52:25	59	89.6			
300	-1.3	0.3	46.22	-0.7	14:53:10	59	-87.3			
325	-1.7	0.3	47.12	-1.0	14:54:00	59	86.4		0.0	
350	-0.6	0.2	46.21	-0.3	14:54:41	69	-81.4		-0.1	
375	-0.7	0.3	46.45	-0.4	14:55:41	59	85.4		-1.0	
400	0.0	0.4	46.93	0.0	14:57:06	69	-88.7		-0.9	
425	0.7	0.3	47.65	0.4	14:58:14	69	-79.6		-1.1	
450	2.2	2.0	48.37	1.2	14:59:02	49	-88.2		-2.0	

Line	500	Date	15 DEC 92	24.0	#68					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA	T	
450	-3.1	-3.3	47.64	-1.8	15:02:14	49	89.2			
425	-3.3	-3.0	48.17	-1.9	15:04:26	59	-86.5			
400	-2.7	-2.6	48.03	-1.5	15:05:11	69	-88.7			
375	-2.5	-1.9	47.94	-1.4	15:06:07	59	-79.0		0.8	
350	-1.1	-0.5	48.22	-0.6	15:08:27	59	89.1		1.4	
325	1.9	2.1	47.83	1.1	15:09:55	39	84.5		3.4	
300	-0.2	-0.1	47.10	-0.1	15:11:46	49	79.3		3.0	
275	-2.6	-1.9	47.47	-1.5	15:12:31	59	-84.0		-2.1	

250	-3.3	-2.4	47.13	-1.8	15:13:18	69	87.3	-4.3
225	-3.2	-3.0	47.06	-1.8	15:14:18	49	77.5	-2.0
200	-2.8	-3.3	47.23	-1.6	15:14:45	39	72.9	-0.1

Line	400	Date	15 DEC 92	24.0	#79				
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT	S	DIR	4-FRA T
150	0.4	-1.7	46.62	0.2	15:18:10	49		-86.4	
175	-0.3	-1.3	46.69	-0.2	15:19:08	59		86.4	
200	-0.6	-1.1	46.68	-0.3	15:19:48	49		77.5	
225	-1.3	-2.2	46.80	-0.7	15:20:36	69		-89.8	1.0
250	-1.1	-1.9	47.94	-0.6	15:21:49	69		-87.9	0.8
275	0.5	-0.3	47.36	0.3	15:22:59	79		-85.2	-0.7
300	-1.0	-0.8	47.45	-0.5	15:23:57	49		83.6	-1.1
325	-0.3	-0.9	47.64	-0.1	15:24:49	49		-76.4	0.3
350	0.9	-0.8	47.25	0.5	15:25:33	65	69	-72.3	-0.6
375	0.6	-0.3	46.92	0.3	15:26:22	55	59	-88.6	-1.4
400	0.2	-1.1	47.16	0.1	15:27:09	39		-77.3	0.0

Line	300	Date	15 DEC 92	24.0	#90				
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT	S	DIR	4-FRA T
400	-2.2	-3.2	47.90	-1.2	15:29:00	65	49	-80.3	
375	-2.5	-3.0	47.05	-1.4	15:30:12	55	59	-75.2	
350	-2.4	-3.4	47.05	-1.4	15:31:03	65	69	-86.8	
325	-2.5	-3.5	46.86	-1.4	15:31:53	55	59	-81.8	-0.2
300	-2.8	-3.4	46.72	-1.6	15:32:55		59	-74.9	-0.2
275	-2.7	-3.5	46.76	-1.5	15:33:46		59	-80.1	-0.3
250	-4.9	-5.6	46.10	-2.8	15:34:51		79	-82.7	-1.3
225	-2.9	-4.2	45.91	-1.6	15:35:55		69	-86.0	-1.3
200	-3.1	-4.3	46.03	-1.8	15:36:50		49	-79.8	0.9
175	-3.0	-5.1	46.27	-1.7	15:37:49		59	-74.3	0.9

Line	200	Date	15 DEC 92	24.0	#100				
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT	S	DIR	4-FRA T
175	1.6	-2.9	46.89	0.9	15:40:23		49	-78.3	
200	1.1	-1.9	46.71	0.6	15:41:42	65	59	89.8	
225	2.1	-1.3	46.41	1.2	15:42:39	55	69	-75.6	
250	1.8	-0.5	47.16	1.0	15:43:46		59	-78.2	-0.7
275	1.0	0.0	46.48	0.6	15:44:45		49	80.5	0.2
300	2.0	-0.1	46.42	1.1	15:45:38		49	-77.4	0.5
325	1.2	-0.1	47.22	0.7	15:46:59	65	49	-82.5	-0.2
350	0.5	-0.3	47.25	0.2	15:47:40	55	49	88.8	0.8
375	0.7	-0.6	47.07	0.4	15:48:21	65	59	-82.6	1.2
400	-0.3	-1.2	46.72	-0.2	15:49:14	55	49	-89.5	0.7

Line	100	Date	15 DEC 92	24.0	#110				
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT	S	DIR	4-FRA T
400	-2.9	-4.1	47.17	-1.7	15:51:55		59	-81.4	
375	-2.3	-3.8	47.35	-1.3	15:53:05		59	-85.5	
350	-2.6	-3.7	47.02	-1.5	15:53:59		59	-87.4	
325	-2.0	-3.5	47.00	-1.1	15:54:53		49	-89.2	0.4
300	-1.4	-3.4	47.07	-0.8	15:55:45		49	88.0	0.9
275	-1.2	-3.3	46.78	-0.6	15:56:35	65	79	86.7	1.2
250	-1.1	-4.4	47.54	-0.6	15:57:27	55	59	84.1	0.7
225	-1.1	-5.1	47.14	-0.6	15:58:26		59	80.6	0.2
200	-1.9	-5.9	47.13	-1.1	15:59:00	65	59	-80.9	-0.5

Line	0	Date	15 DEC 92	24.0	#119					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT	S	DIR	4-FRA	T
225	-0.1	-5.1	47.04	0.0	16:02:00	55	49	-68.0		
250	0.0	-3.6	46.88	0.0	16:03:24		69	87.3		
275	0.8	-2.4	47.20	0.5	16:04:12		49	-84.0		
300	0.5	-1.7	46.87	0.3	16:05:01	65	59	85.2	-0.8	
325	0.6	-1.5	46.45	0.3	16:05:59	55	49	-80.8	-0.1	
350	-0.3	-1.5	46.52	-0.2	16:06:45	65	59	86.8	0.7	
375	0.2	-1.8	46.33	0.1	16:07:27		49	-81.8	0.7	
400	-0.1	-2.5	46.62	0.0	16:07:59	55	49	-69.3	0.0	
175	-3.1	-9.6	46.07	-1.8	16:16:52		49	-76.2	-1.9	
-200	14.3	-8.9	50.52	8.1	13:04:54		59	-76.7		
-175	13.0	-8.7	50.19	7.4	13:08:06		49	-73.5		
-150	9.8	-8.5	49.40	5.6	13:10:08		69	-86.8		
-125	9.5	-7.9	48.74	5.4	13:11:19		49	-84.5	4.5	
-100	8.7	-7.5	48.84	4.9	13:13:29		59	89.6	2.7	
-75	8.3	-7.2	48.47	4.7	13:14:13		49	-85.8	1.4	
-50	8.6	-7.0	48.15	4.9	13:14:59		59	-80.8	0.7	
-25	8.1	-7.2	47.41	4.6	13:15:58		59	-84.9	0.1	
0	8.5	-7.3	47.28	4.8	13:17:09		49	-76.3	0.2	
25	7.1	-7.1	46.91	4.0	13:18:01		59	-83.7	0.7	
50	6.6	-7.8	46.74	3.8	13:18:44		59	-77.8	1.6	
75	5.8	-7.5	47.06	3.3	13:19:33		59	-77.4	1.7	
100	2.8	-8.1	46.90	1.6	13:20:29		69	-75.8	2.9	
125	1.9	-8.4	46.46	1.1	13:21:15		59	-81.1	4.4	
150	0.5	-9.1	46.75	0.3	13:22:09		59	-78.5	3.5	
175	-0.4	-9.7	48.17	-0.2	13:22:55		59	-75.6	2.6	

Line	200	Date	15 DEC 92	24.0	#19					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT	S	DIR	4-FRA	T
150	-1.6	-5.6	47.13	-0.9	13:29:58		49	-85.2		
125	-2.2	-7.7	46.70	-1.2	13:32:04		69	-82.4		
100	-2.0	-7.4	46.71	-1.1	13:33:00		69	-89.5		
75	-2.1	-8.2	46.30	-1.2	13:33:38		69	-83.6	-0.2	
50	-1.8	-8.7	46.35	-1.0	13:34:20		69	87.1	0.1	
25	1.7	-7.6	46.70	0.9	13:35:06		59	73.9	2.2	
0	2.0	-7.4	47.30	1.1	13:36:17		69	84.2	4.2	
-25	2.3	-7.6	46.96	1.3	13:37:28		59	-84.7	2.5	
-50	3.3	-6.8	46.69	1.9	13:38:20		59	-77.7	1.2	
-75	6.2	-5.9	46.90	3.5	13:39:03		69	-83.3	3.0	
-100	7.3	-5.2	47.55	4.1	13:39:48		69	-78.4	4.4	
-125	8.9	-5.2	47.39	5.1	13:40:33		69	89.2	3.8	
-150	10.1	-4.6	48.37	5.7	13:41:15		59	-88.1	3.2	
-175	12.2	-3.8	48.13	6.9	13:42:03		58	-89.4	3.4	

Line	400	Date	15 DEC 92	24.0	#33					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT	S	DIR	4-FRA	T
-250	16.4	-0.2	47.90	9.3	13:48:38		59	-76.5		
-225	14.9	-0.1	47.37	8.4	13:50:07		59	-80.2		
-200	12.6	-0.8	46.65	7.1	13:51:42		59	89.5		
-175	9.6	-2.7	45.75	5.5	13:52:56		59	86.6	5.1	
-150	9.3	-3.2	45.37	5.3	13:53:59		59	-78.3	4.7	
-125	8.1	-2.6	45.60	4.6	13:55:30		49	-82.2	2.7	
-100	4.8	-3.5	45.41	2.7	13:56:47		59	-83.2	3.5	

-50	2.1	-4.9	45.64	1.2	13:59:26	39	87.7	4.6
-25	1.7	-4.8	45.86	0.9	14:00:43	69	-70.5	2.1
0	1.3	-4.2	46.04	0.7	14:02:05	69	-85.5	1.1
25	1.2	-3.9	45.97	0.6	14:02:45	59	-85.8	0.8
50	-0.1	-3.6	46.14	0.0	14:03:57	59	83.5	1.0
75	0.0	-3.5	46.08	0.0	14:04:42	59	87.2	1.3
100	-2.2	-4.0	45.94	-1.3	14:06:15	39	70.5	1.9
125	-3.3	-4.8	46.30	-1.9	14:06:58	59	81.6	3.2
150	-5.7	-5.4	46.21	-3.2	14:07:36	59	75.6	3.8

Line 600	Date 15 DEC 92	24.0	#50					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
225	-3.4	-0.5	45.56	-1.9	14:14:01	59	83.3	
200	-5.8	-1.6	45.63	-3.3	14:15:37	59	-81.1	
175	-5.7	-2.0	45.79	-3.2	14:16:33	59	-89.8	
150	-6.7	-2.8	45.64	-3.8	14:18:01	59	-78.7	-1.8
125	-5.4	-2.3	45.98	-3.1	14:18:38	59	-84.3	-0.4
100	-4.1	-2.3	45.36	-2.3	14:19:18	59	-89.6	1.6
75	-3.8	-2.6	45.33	-2.2	14:19:52	69	-79.3	2.4
50	-3.0	-3.2	45.26	-1.7	14:20:35	69	82.1	1.5
25	-2.8	-3.2	45.51	-1.6	14:21:12	69	84.7	1.2
0	-3.3	-3.6	44.95	-1.9	14:22:01	59	-81.0	0.4
-25	-2.8	-3.8	40.99	-1.6	14:23:19	59	-85.3	-0.2
-50	-1.4	-4.6	40.79	-0.8	14:24:36	69	-83.0	1.1
-75	-1.7	-5.1	45.42	-1.0	14:25:58	59	83.5	1.7
-100	-1.6	-4.7	45.64	-0.9	14:26:44	69	86.3	0.5
-125	-1.2	-4.6	45.20	-0.6	14:27:28	39	-87.0	0.3
-150	-0.6	-5.3	45.32	-0.3	14:28:22	59	85.4	1.0
-175	0.3	-5.0	44.81	0.2	14:29:02	59	-81.3	1.4
-200	1.7	-4.6	45.79	1.0	14:29:40	59	-85.6	2.1
-225	6.5	-2.0	44.45	3.7	14:30:23	59	-89.0	4.8
-250	8.3	-1.4	44.91	4.7	14:31:07	49	82.0	7.2
-275	8.2	-2.0	44.83	4.7	14:31:34	59	84.9	4.7

Line 800	Date 15 DEC 92	24.0	#71					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
-300	5.5	-2.3	44.34	3.1	14:42:20	49	-82.8	
-275	2.9	-3.6	44.74	1.6	14:43:48	59	-85.6	
-250	0.9	-4.4	45.52	0.5	14:44:34	69	-89.9	
-225	2.1	-3.9	45.36	1.2	14:45:24	59	-85.0	3.0
-200	0.6	-4.1	45.24	0.3	14:46:00	59	80.6	0.6
-175	-0.3	-4.7	46.25	-0.1	14:47:02	59	71.5	1.5
-150	-0.6	-4.7	46.11	-0.3	14:48:01	49	79.3	1.9
-125	-0.8	-4.7	46.43	-0.4	14:48:30	59	81.6	0.9
-100	-3.7	-5.1	46.55	-2.1	14:49:48	49	86.3	2.1
-75	-3.7	-5.5	46.65	-2.1	14:50:56	59	-84.1	3.5
-50	-3.5	-5.2	47.13	-2.0	14:51:56	29	88.3	1.6
-25	-4.5	-5.1	46.89	-2.6	14:52:34	59	-89.0	0.4
0	-6.0	-4.9	47.01	-3.4	14:53:25	59	83.0	1.9
25	-5.7	-4.2	47.65	-3.3	14:54:37	69	-79.9	2.1
50	-5.7	-3.2	47.34	-3.3	14:55:25	59	-81.0	0.6
75	-8.4	-3.3	47.18	-4.8	14:56:19	59	-85.6	1.4
100	-12.1	-5.4	46.94	-6.9	14:57:01	68	-85.5	5.1
125	-15.7	-7.7	50.71	-8.9	14:57:43	46	-86.7	7.7
150	-6.4	-2.3	53.93	-3.7	14:58:47	59	-80.4	0.9
175	-8.0	-2.6	58.51	-4.5	15:00:02	69	-84.2	-7.6

200	1.7	1.0	53.67	1.0	15:01:04	49	-87.6	-9.1
225	2.0	1.2	51.20	1.1	15:01:39	59	84.9	-10.3

Line 1000	Date	15 DEC 92	24.0	#93				
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
225	-5.0	-2.6	49.50	-2.8	15:21:20	29	-86.0	
200	-3.3	-2.1	49.09	-1.9	15:22:43	59	81.4	
175	-4.8	-2.7	49.09	-2.7	15:23:29	59	77.2	
150	-3.6	-2.6	48.36	-2.1	15:24:22	59	82.8	-0.1
125	-5.6	-3.2	47.97	-3.2	15:25:03	39	77.3	-0.7
100	0.0	-0.5	47.06	0.0	15:26:18	59	-78.6	1.6
75	-14.2	-5.2	52.86	-8.1	15:27:10	59	-77.6	-2.8
50	-18.8	-8.0	49.43	-10.6	15:28:15	49	-85.6	-15.5
25	-11.3	-4.5	48.90	-6.4	15:31:35	19	72.6	-8.9
0	-7.8	-3.2	47.97	-4.4	15:33:42	9	82.8	7.9
-25	-9.1	-3.0	47.91	-5.1	15:37:29	29	-71.3	7.5
-50	-8.1	-3.0	48.49	-4.6	15:39:16	19	88.6	1.1
-75	-6.7	-2.7	48.63	-3.8	15:40:05	69	-82.7	1.1
-100	-6.2	-2.7	48.05	-3.5	15:41:28	49	-88.6	2.4
-125	-5.9	-3.2	48.12	-3.3	15:42:22	49	-88.6	1.6
-150	-4.9	-3.4	48.23	-2.8	15:43:25	59	-87.3	1.2
-175	-5.9	-4.4	48.54	-3.3	15:44:33	49	84.8	0.7
-200	-6.0	-5.3	48.10	-3.4	15:45:19	39	-82.6	-0.6
-225	-6.6	-5.6	47.64	-3.8	15:45:55	49	-77.0	-1.1
-250	-6.0	-5.6	48.14	-3.4	15:46:31	59	-74.5	-0.5
-275	-9.2	-7.7	48.03	-5.2	15:48:20	59	-77.2	-1.4
-300	-8.4	-8.6	48.04	-4.8	15:49:14	29	88.5	-2.8
-325	-10.7	-10.0	49.58	-6.1	15:50:10	49	89.6	-2.3
-350	-13.7	-10.4	49.67	-7.8	15:50:40	49	78.2	-3.9

Line 100	Date	15 DEC 92	24.0	#3				
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
175	10.2	-8.4	52.96	5.8	13:10:27	55 69	85.6	
-150	10.2	-7.5	51.37	5.8	13:12:31	49	78.3	
-150	8.6	-7.1	50.13	4.9	13:14:39	59	70.0	#
-100	8.1	-6.6	49.22	4.6	13:17:02	59	68.0	
-125	-10.0	6.7	48.72	-5.7	13:18:38	59	-88.7	1.3
-50	8.6	-6.5	48.90	4.9	13:20:04	59	83.5	-0.2
-25	8.5	-6.5	47.84	4.8	13:21:44	59	-86.6	0.6
0	6.8	-6.5	48.38	3.9	13:22:36	49	86.6	1.9
25	8.7	-6.6	46.90	4.9	13:23:20	69	-61.1	0.9
50	4.8	-7.4	47.87	2.7	13:24:04	69	-89.2	1.1
75	1.9	-7.6	48.77	1.1	13:24:45	59	-84.0	5.0
100	2.0	-7.3	48.77	1.1	13:25:32	49	88.6	5.4
125	2.2	-6.9	49.06	1.2	13:26:21	49	88.8	1.5
150	-0.2	-8.3	48.71	-0.1	13:27:09	59	89.7	1.1
175	2.9	-5.7	48.57	1.7	13:27:49	59	-74.1	0.7

Line 300	Date	15 DEC 92	24.0	#18				
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
175	-4.9	-6.1	48.16	-2.8	13:34:17	69	86.8	
150	-6.5	-6.9	47.38	-3.7	13:35:33	69	-87.5	
125	-4.9	-5.8	46.90	-2.8	13:36:14	59	-87.4	
100	-3.7	-5.4	47.31	-2.1	13:37:03	59	-81.6	1.6
75	-1.8	-4.0	47.25	-1.0	13:37:54	49	-89.0	3.4
50	-1.0	-4.3	47.03	-0.6	13:38:37	49	-89.1	3.3

25	-0.9	-4.6	47.02	-0.5	13:39:14	59	-82.5	2.0
0	2.1	-4.3	46.79	1.2	13:39:46	69	87.3	2.3
-25	1.1	-4.7	45.77	0.6	13:40:18	49	-80.3	2.9
-50	1.7	-4.6	46.41	1.0	13:40:46	59	-82.1	0.9
-75	2.0	-3.9	47.92	1.1	13:41:40	49	-82.6	0.3
-100	3.9	-3.9	47.85	2.2	13:42:35	69	86.3	1.7
-125	4.9	-3.6	47.55	2.8	13:43:22	59	83.5	2.9
-150	5.0	-3.5	47.36	2.9	13:44:35	59	-89.1	2.4
-175	9.5	-2.1	48.88	5.4	13:45:32	69	-86.1	3.3
-200	12.0	0.0	49.67	6.8	13:46:17	39	-77.6	6.5

Line 500 Date 15 DEC 92 24.0 #34

POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
-275	9.9	-4.1	46.49	5.6	13:53:38	39	82.8	
-250	7.6	-4.3	45.63	4.3	13:54:34	79	89.9	
-225	4.4	-4.6	45.26	2.5	13:55:15	59	81.4	
-200	5.5	-4.6	45.36	3.1	13:55:55	39	87.3	4.3
-175	4.0	-4.8	46.06	2.2	13:56:37	59	83.9	1.5
-150	4.9	-5.1	45.83	2.8	13:57:29	59	-84.0	0.6
-125	1.3	-4.5	46.09	0.7	13:58:36	69	76.7	1.8
-100	2.0	-4.4	46.47	1.1	13:59:26	59	83.9	3.2
-75	-1.3	-4.7	46.82	-0.7	14:01:22	9	71.4	3.1
-50	0.4	-4.8	47.22	0.2	14:03:59	59	84.3	2.3
-25	2.0	-4.2	47.51	1.1	14:05:18	59	-81.6	-0.9
0	0.8	-3.5	46.74	0.5	14:06:00	69	-83.9	-2.1
25	-0.7	-3.7	48.86	-0.4	14:07:02	59	82.2	1.2
50	-0.8	-4.0	49.03	-0.4	14:07:35	49	80.4	2.4
75	-1.1	-3.0	46.86	-0.6	14:08:23	59	80.4	1.1
100	-3.0	-3.3	47.19	-1.7	14:08:58	49	74.5	1.5
125	-6.5	-5.4	47.34	-3.7	14:09:35	49	68.3	4.4
150	-4.8	-3.0	47.35	-2.7	14:10:19	59	77.3	4.1
175	-3.1	-2.3	47.19	-1.7	14:10:54	49	82.6	-1.0

Line 700 Date 15 DEC 92 24.0 #53

POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
225	-6.0	0.1	44.02	-3.4	14:19:20	59	-80.9	
200	-8.4	-1.5	45.67	-4.8	14:20:29	59	-87.8	
175	-7.0	-1.1	46.26	-4.0	14:21:14	59	86.7	
150	-6.6	-0.9	45.97	-3.7	14:21:58	49	-85.5	0.5
125	-7.5	-0.7	46.14	-4.3	14:22:55	59	-71.6	0.8
100	-6.0	-1.3	46.94	-3.4	14:23:44	59	-85.3	0.0
75	-5.9	-2.2	41.56	-3.4	14:24:35	59	-89.4	1.2
50	-6.0	-2.4	45.06	-3.4	14:25:23	69	84.5	0.9
25	-4.4	-2.6	44.98	-2.5	14:26:24	59	-87.9	0.9
0	-2.8	-2.5	44.95	-1.6	14:27:55	59	83.0	2.7
-25	-4.0	-3.1	45.24	-2.3	14:33:10	49	-86.7	2.0
-50	-1.5	-2.5	45.81	-0.8	14:33:53	49	77.6	1.0
-75	-1.3	-2.0	46.35	-0.7	14:34:39	59	-85.6	2.4
-100	-3.5	-4.2	45.37	-2.0	14:35:23	59	-81.8	0.4
-125	-1.5	-3.6	45.83	-0.8	14:36:29	49	-84.5	-1.3
-150	0.0	-3.3	45.30	0.0	14:37:11	69	-88.1	1.9
-175	1.4	-3.3	45.21	0.8	14:37:46	49	89.7	3.6
-200	-0.3	-3.2	44.36	-0.2	14:38:20	59	-75.3	1.4
-225	4.8	-1.7	44.36	2.8	14:38:57	59	77.8	1.8
-250	4.8	-2.0	44.60	2.7	14:39:25	59	79.3	4.9

Line 900	Date 15 DEC 92	24.0	#73					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
-325	-1.4	-6.2	44.97	-0.8	14:44:56	59	82.7	
-300	-0.7	-6.4	44.93	-0.4	14:45:50	69	-88.3	
-275	0.1	-6.3	46.68	0.0	14:47:23	69	-78.1	
-250	0.7	-6.2	46.21	0.4	14:48:53	49	-73.7	-1.6
-225	-2.9	-6.0	47.74	-1.6	14:51:29	29	-85.5	0.8
-200	-0.4	-5.9	48.31	-0.2	14:53:35	29	-79.9	2.2
-175	-1.1	-4.6	51.31	-0.6	14:58:28	39	-83.3	-0.4
-150	-4.9	-4.0	49.83	-2.8	14:59:56	49	75.9	1.6
-125	-0.2	-3.5	51.25	-0.1	15:00:58	49	-76.3	2.1
-100	-7.1	-3.2	49.77	-4.0	15:02:06	39	56.7	0.7
-75	-4.6	-3.6	51.20	-2.6	15:05:31	59	81.8	3.7
-50	-5.4	-3.8	50.38	-3.1	15:07:18	29	76.4	1.6
-25	-6.7	-3.4	49.44	-3.8	15:08:32	39	80.4	0.3
0	-6.6	-3.3	49.38	-3.8	15:09:43	69	-89.8	1.9
25	-8.4	-3.9	50.00	-4.8	15:10:59	69	83.6	1.7
50	-10.7	-4.5	50.41	-6.1	15:11:56	69	73.6	3.3
75	-11.8	-4.7	55.63	-6.7	15:13:35	58	85.1	4.2
100	-5.3	-2.8	54.66	-3.0	15:14:17	59	-89.7	-1.2
125	7.6	1.3	52.26	4.3	15:14:57	69	86.2	-14.1
150	0.8	0.7	51.92	0.4	15:16:00	39	62.7	-14.4
175	3.4	1.4	50.40	1.9	15:17:02	39	81.8	-1.0
200	2.3	0.0	49.23	1.3	15:17:56	59	-88.3	1.5
225	2.2	-0.2	49.53	1.2	15:18:46	59	-89.8	-0.2

Line 1100	Date 15 DEC 92	24.0	#96					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
225	-4.1	-2.1	53.58	-2.3	15:25:54	59	78.5	
200	-1.6	-1.8	53.77	-0.9	15:27:12	69	70.3	
175	-4.8	-3.0	55.02	-2.7	15:27:48	49	75.5	
150	-12.4	-6.9	56.04	-7.0	15:28:42	39	82.0	-6.5
125	-9.5	-3.9	56.71	-5.4	15:29:23	49	82.8	-8.8
100	-14.6	-4.3	57.12	-8.3	15:29:57	29	82.9	-4.0
75	-16.6	-4.3	57.28	-9.4	15:30:36	29	85.0	-5.3
50	-32.4	-12.3	54.44	-17.9	15:31:05	39	82.2	-13.6
25	-23.7	-10.6	49.58	-13.3	15:31:40	39	69.0	-13.5
0	-15.5	-5.4	49.36	-8.8	15:33:23	59	82.7	5.2
-25	-10.7	-2.8	48.74	-6.1	15:35:33	49	82.9	16.3
-50	-5.0	-2.1	48.17	-2.9	15:37:07	49	66.3	13.1
-75	-3.6	-2.1	48.57	-2.0	15:38:08	59	60.7	10.0
-100	-4.9	-1.6	48.33	-2.8	15:38:56	59	88.8	4.2
-125	-6.2	-1.7	48.74	-3.5	15:39:35	49	-85.6	-1.4
-150	-3.3	-1.6	48.40	-1.8	15:40:28	49	82.4	-0.5
-175	-1.1	-1.8	48.85	-0.6	15:41:35	49	72.6	3.9
-200	-1.8	-2.4	49.36	-1.0	15:42:35	19	77.4	3.7
-225	1.0	-1.4	49.26	0.5	15:43:21	49	62.1	1.9
-250	-0.2	-4.0	49.02	-0.1	15:44:12	49	79.3	2.0
-275	-2.9	-5.3	49.83	-1.6	15:44:56	69	76.4	-1.2

Line 1200	Date 15 DEC 92	24.0	#117					
POSITION	I/P	QUAD	T.FLD	TILT	TIME	CULT S	DIR	4-FRA T
-275	5.3	-4.7	53.32	3.0	15:48:44	19	68.7	
-250	5.0	-3.7	51.12	2.9	15:49:56	69	-83.0	
-225	3.5	-3.8	49.86	2.0	15:50:46	49	-77.3	
-200	-1.6	-3.2	49.90	-0.9	15:51:53	39	70.4	4.8

-175	0.5	-2.5	50.74	0.3	15:52:47	59	80.0	5.5
-150	-4.7	-2.4	51.62	-2.7	15:54:01	59	52.8	3.5
-125	-7.5	-2.4	50.06	-4.2	15:55:54	36	41.6	6.3
-100	-8.3	-2.9	51.51	-4.7	15:57:24	49	50.1	6.5
-75	-9.1	-3.5	52.12	-5.2	15:59:13	69	78.8	3.0
-50	-10.8	-5.8	53.83	-6.1	16:00:32	59	-65.0	2.4
-25	-14.3	-6.0	56.00	-8.1	16:01:16	68	-88.8	4.3
0	-23.3	-8.4	59.24	-13.1	16:01:55	46	-89.7	9.9
25	-4.6	-0.8	61.80	-2.6	16:02:24	49	-85.7	1.5
50	9.9	0.7	59.36	5.6	16:02:55	49	-88.8	-24.2
75	12.8	1.3	57.95	7.3	16:03:25	59	88.8	-28.6
100	16.4	4.5	59.38	9.3	16:03:55	69	77.6	-13.6

EOF



OMNI-IV Tie-line MAG Ser #18081  
TOTAL FIELD DATA (Base stn. corrected)

Reference field: 58000.0  
Datum subtracted: 58000.0 Date 15 DEC 92  
Operator: 3000  
Records: 132  
Bat: 17.8 Volt Lithium: 3.50 Volt  
Last time update: 12/15 12:10:00  
Start of print: 12/15 21:51:51

Line	100	Date	15 DEC 92	#3			
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
175	23.0	.04	5.7	13:10:27	88		
-150	51.2	.04	5.8	13:12:31	88		
-150	49.8	.04	6.6	13:14:39	88		
-100	45.2	.04	6.9	13:17:02	88		
-125	41.0	.04	7.5	13:18:38	88		
-50	72.5	.04	7.0	13:20:04	88		
-25	64.9	.04	5.8	13:21:44	88		
0	103.5	.04	5.6	13:22:36	88		
25	92.5	.04	5.8	13:23:20	88		
50	116.1	.04	5.8	13:24:04	88		
75	100.0	.04	5.8	13:24:45	88		
100	135.9	.04	5.9	13:25:32	88		
125	133.5	.05	5.8	13:26:21	88		
150	109.5	.04	5.6	13:27:09	88		
175	85.1	.05	5.8	13:27:49	88		

Line	300	Date	15 DEC 92	#18			
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT	
175	92.4	.04	4.8	13:34:17	88		
150	108.2	.05	4.7	13:35:33	88		
125	104.7	.04	4.7	13:36:14	88		
100	84.4	.05	4.3	13:37:03	88		

75	105.7	.04	4.5	13:37:54	88
50	59.0	.04	4.4	13:38:37	88
25	121.8	.05	4.3	13:39:14	88
0	90.9	.05	4.5	13:39:46	88
-25	75.4	.04	4.7	13:40:18	88
-50	87.5	.04	4.6	13:40:46	88
-75	25.2	.04	4.7	13:41:40	88
-100	46.6	.04	4.5	13:42:35	88
-125	54.3	.04	4.1	13:43:22	88
-150	45.1	.04	3.8	13:44:35	88
-175	323.5	.06	3.4	13:45:32	88
-200	18.4	.04	3.5	13:46:17	88

Line 500 Date 15 DEC 92 #34

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
-275	18.2	.05	4.0	13:53:38	88	
-250	4.0	.04	4.9	13:54:34	88	
-225	-5.6	.04	5.3	13:55:15	88	
-200	-12.8	.06	4.2	13:55:55	88	
-175	19.8	.06	4.6	13:56:37	88	
-150	4.2	.04	4.3	13:57:29	88	
-125	48.0	.05	3.0	13:58:36	88	
-100	67.7	.04	3.0	13:59:26	88	
-75	62.0	.05	3.0	14:01:22	88	
-50	76.7	.05	3.5	14:03:59	88	
-25	89.2	.04	3.4	14:05:18	88	
0	91.5	.05	4.1	14:06:00	88	
25	136.5	.05	3.4	14:07:02	88	
50	102.1	.04	3.3	14:07:35	88	
75	-41.3	.05	3.3	14:08:23	88	
100	67.3	.06	3.5	14:08:58	88	
125	-20.0	.04	3.8	14:09:35	88	
150	77.2	.06	4.0	14:10:19	88	
175	107.9	.05	4.1	14:10:54	88	

Line 700 Date 15 DEC 92 #53

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
225	-11.0	.06	4.8	14:19:20	88	
200	27.3	.06	4.3	14:20:29	88	
175	73.1	.05	4.0	14:21:14	88	
150	33.5	.05	4.1	14:21:58	88	
125	58.9	.05	4.3	14:22:55	88	
100	85.7	.05	4.4	14:23:44	88	
75	189.2	.05	4.5	14:24:35	88	
50	72.0	.04	4.8	14:25:23	88	
25	100.4	.05	5.4	14:26:24	88	
0	101.2	.05	4.9	14:27:55	88	
-25	49.7	.04	5.4	14:33:10	88	
-50	86.5	.04	5.3	14:33:53	88	
-75	53.1	.05	5.7	14:34:39	88	
-100	80.8	.04	5.8	14:35:23	88	
-125	104.5	.04	5.4	14:36:29	88	
-150	59.7	.04	5.8	14:37:11	88	
-175	-146.4	.04	6.1	14:37:46	88	
-200	-117.8	.06	6.3	14:38:20	88	
-225	-61.3	.06	6.2	14:38:57	88	

-250 -30.0 .06 5.9 14:39:25 88

Line	900	Date	15	DEC	92	#73		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
-325	24.0	.07	5.5	14:44:56	88			
-300	29.9	.05	5.1	14:45:50	88			
-275	1.2	.05	5.5	14:47:23	88			
-250	21.2	.05	5.7	14:48:53	88			
-225	36.7	.05	5.9	14:51:29	88			
-200	25.3	.04	6.0	14:53:35	88			
-175	71.6	.04	5.2	14:58:28	88			
-150	47.4	.05	4.7	14:59:56	88			
-125	73.4	.05	4.8	15:00:58	88			
-100	64.1	.04	5.3	15:02:06	88			
-75	78.1	.05	7.0	15:05:31	88			
-50	117.4	.05	7.3	15:07:18	88			
-25	167.7	.05	7.2	15:08:32	88			
0	-173.0	.04	7.5	15:09:43	88			
25	-213.9	.06	7.0	15:10:59	88			
50	-148.6	.05	6.7	15:11:56	88			
75	23.4	.07	6.9	15:13:35	88			
100	18.7	.05	7.4	15:14:17	88			
125	6.0	.05	7.9	15:14:57	88			
150	39.7	.05	7.9	15:16:00	88			
175	59.6	.04	9.0	15:17:02	88			
200	-56.3	.05	9.8	15:17:56	88			
225	33.3	.07	9.9	15:18:46	88			

Line	1100	Date	15	DEC	92	#96		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
225	72.2	.04	11.6	15:25:54	88			
200	70.4	.05	12.4	15:27:12	88			
175	56.7	.04	12.4	15:27:48	88			
150	33.4	.05	12.8	15:28:42	88			
125	45.6	.05	12.8	15:29:23	88			
100	36.6	.05	12.3	15:29:57	88			
75	26.3	.04	12.0	15:30:36	88			
50	16.2	.05	11.8	15:31:05	88			
25	24.6	.05	12.0	15:31:40	88			
0	18.2	.05	12.3	15:33:23	88			
-25	157.6	.06	12.8	15:35:33	88			
-50	183.1	.06	13.3	15:37:07	88			
-75	106.6	.05	14.0	15:38:08	88			
-100	19.9	.05	14.5	15:38:56	88			
-125	32.7	.05	14.9	15:39:35	88			
-150	43.5	.04	15.5	15:40:28	88			
-175	35.1	.05	16.0	15:41:35	88			
-200	35.8	.05	16.5	15:42:35	88			
-225	35.3	.05	17.0	15:43:21	88			
-250	12.7	.05	17.6	15:44:12	88			
-275	6.6	.05	18.0	15:44:56	88			

Line	1200	Date	15	DEC	92	#117		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
-275	18.9	.05	19.3	15:48:44	88			
-250	84.5	.05	18.9	15:49:56	88			

-225	92.4	.05	18.7	15:50:46	88
-200	-19.0	.05	18.6	15:51:53	88
-175	-95.9	.06	18.9	15:52:47	88
-150	12.4	.07	19.4	15:54:01	88
-125	67.4	.06	19.4	15:55:54	88
-100	-40.8	.05	19.2	15:57:24	88
-75	168.7	.06	19.2	15:59:13	88
-50	97.0	.05	18.5	16:00:32	88
-25	96.3	.05	18.3	16:01:16	88
0	60.6	.05	18.4	16:01:55	88
25	35.5	.05	18.5	16:02:24	88
50	36.2	.05	18.6	16:02:55	88
75	36.7	.04	18.7	16:03:25	88
100	42.4	.05	18.7	16:03:55	88

Line	0	Date	15	DEC	92	#1		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
-200	-17.7	.07	5.3	13:04:54	88			
-175	42.1	.08	8.6	13:08:06	88			
-150	39.1	.07	5.8	13:10:08	88			
-125	69.5	.08	5.4	13:11:19	88			
-100	77.8	.09	6.3	13:13:29	88			
-75	19.0	.08	6.6	13:14:13	88			
-50	100.5	.08	6.6	13:14:59	88			
-25	59.3	.08	6.5	13:15:58	88			
0	188.5	.07	6.9	13:17:09	88			
25	98.0	.08	7.4	13:18:01	88			
50	108.3	.08	7.5	13:18:44	88			
75	126.0	.08	7.3	13:19:33	88			
100	114.7	.08	6.9	13:20:29	88			
125	100.5	.08	6.4	13:21:15	88			
150	115.3	.08	5.5	13:22:09	88			
175	93.8	.08	5.7	13:22:55	88			

Line	200	Date	15	DEC	92	#19		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
150	83.2	.08	3.8	13:29:58	88			
125	107.1	.08	4.5	13:32:04	88			
100	84.2	.09	4.4	13:33:00	88			
75	126.6	.08	4.6	13:33:38	88			
50	121.6	.08	4.8	13:34:20	88			
25	82.5	.08	4.7	13:35:06	88			
0	81.1	.08	4.6	13:36:17	88			
-25	67.7	.09	4.4	13:37:28	88			
-50	62.8	.08	4.5	13:38:20	88			
-75	34.8	.08	4.2	13:39:03	88			
-100	76.9	.08	4.6	13:39:48	88			
-125	56.8	.08	4.6	13:40:33	88			
-150	51.8	.08	4.5	13:41:15	88			
-175	0.7	.08	4.8	13:42:03	88			

Line	400	Date	15	DEC	92	#33		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
-250	-1.7	.09	4.4	13:48:38	88			
-225	3.9	.09	4.6	13:50:07	88			
-200	17.7	.08	3.8	13:51:42	88			

-175	33.4	.08	3.8	13:52:56	88
-150	37.9	.07	4.0	13:53:59	88
-125	70.5	.09	4.8	13:55:30	88
-100	62.9	.08	4.7	13:56:47	88
-75	10.1	.09	3.7	13:57:46	88
-50	42.8	.09	3.0	13:59:26	88
-25	138.9	.08	3.1	14:00:43	88
0	110.6	.08	2.9	14:02:05	88
25	184.5	.08	2.4	14:02:45	88
50	185.1	.09	3.5	14:03:57	88
75	-66.6	.08	3.3	14:04:42	88
100	90.0	.06	4.0	14:06:15	88
125	123.7	.08	3.5	14:06:58	88
150	95.9	.09	3.3	14:07:36	88

Line	600	Date	15	DEC	92	#50		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
225	79.8	.09	3.4	14:14:01	88			
200	51.3	.09	4.2	14:15:37	88			
175	60.6	.08	4.6	14:16:33	88			
150	70.6	.09	5.1	14:18:01	88			
125	104.7	.08	5.0	14:18:38	88			
100	93.6	.08	4.8	14:19:18	88			
75	135.7	.09	4.5	14:19:52	88			
50	119.2	.08	4.2	14:20:35	88			
25	85.3	.09	4.0	14:21:12	88			
0	83.9	.08	4.2	14:22:01	88			
-25	90.7	.08	4.4	14:23:19	88			
-50	88.2	.08	4.5	14:24:36	88			
-75	33.7	.09	5.3	14:25:58	88			
-100	108.8	.08	5.4	14:26:44	88			
-125	116.8	.09	5.2	14:27:28	88			
-150	71.1	.09	4.8	14:28:22	88			
-175	55.6	.09	4.9	14:29:02	88			
-200	24.9	.09	4.7	14:29:40	88			
-225	18.4	.08	4.7	14:30:23	88			
-250	17.5	.09	4.9	14:31:07	88			
-275	35.5	.09	4.9	14:31:34	88			

Line	800	Date	15	DEC	92	#71		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
-300	-8.7	.08	5.2	14:42:20	88			
-275	24.5	.07	5.5	14:43:48	88			
-250	13.5	.09	5.5	14:44:34	88			
-225	58.3	.09	5.3	14:45:24	88			
-200	26.3	.09	5.0	14:46:00	88			
-175	42.3	.09	5.4	14:47:02	88			
-150	-7.3	.09	5.7	14:48:01	88			
-125	-160.6	.08	5.7	14:48:30	88			
-100	59.5	.08	5.7	14:49:48	88			
-75	55.0	.09	5.6	14:50:56	88			
-50	116.2	.09	6.1	14:51:56	88			
-25	74.7	.09	6.0	14:52:34	88			
0	135.2	.10	5.9	14:53:25	88			
25	102.3	.08	6.0	14:54:37	88			
50	-158.7	.08	5.9	14:55:25	88			

75	-65.0	.06	6.2	14:56:19	88
100	-1.1	.07	5.9	14:57:01	88
125	44.9	.09	5.7	14:57:43	88
150	13.0	.09	5.0	14:58:47	88
175	38.2	.09	4.8	15:00:02	88
200	48.6	.09	4.7	15:01:04	88
225	28.8	.09	5.0	15:01:39	88

Line 1000	Date 15	DEC 92	#93		
POSITION	FIELD	ERR	DRIFT	TIME	DS CULT
225	38.1	.09	9.7	15:21:20	88
200	58.7	.08	9.7	15:22:43	88
175	67.1	.09	9.8	15:23:29	88
150	23.3	.08	10.1	15:24:22	88
125	97.4	.09	10.7	15:25:03	88
100	-34.5	.09	11.9	15:26:18	88
75	19.0	.06	12.4	15:27:10	88
50	38.2	.09	12.5	15:28:15	88
25	30.6	.09	11.9	15:31:35	88
0	29.4	.09	12.3	15:33:42	88
-25	331.4	.07	13.6	15:37:29	88
-50	66.2	.09	14.7	15:39:16	88
-75	61.7	.09	15.3	15:40:05	88
-100	45.4	.10	16.0	15:41:28	88
-125	42.1	.09	16.4	15:42:22	88
-150	62.9	.09	17.0	15:43:25	88
-175	39.6	.09	17.8	15:44:33	88
-200	48.5	.09	18.1	15:45:19	88
-225	57.7	.09	18.3	15:45:55	88
-250	75.4	.08	18.6	15:46:31	88
-275	15.8	.09	19.4	15:48:20	88
-300	18.2	.09	19.2	15:49:14	88
-325	1.2	.09	18.8	15:50:10	88
-350	-3.7	.09	18.7	15:50:40	88

Line 1200	Date 15	DEC 92	#4		
POSITION	FIELD	ERR	DRIFT	TIME	DS CULT
0	63.7	.04	4.5	13:37:48	88
25	34.8	.03	4.3	13:38:50	88
50	33.7	.04	4.4	13:39:27	88
75	35.5	.03	4.7	13:40:00	88
100	40.3	.04	4.6	13:40:30	88
125	36.4	.03	4.5	13:41:02	88
150	40.6	.03	4.6	13:41:37	88
175	32.5	.04	4.5	13:42:33	88
200	44.7	.04	3.7	13:44:54	88
225	36.1	.03	4.5	13:50:12	88
250	28.3	.04	3.7	13:52:30	88
275	48.3	.04	4.6	13:54:23	88
300	34.1	.04	5.3	13:55:15	88
325	31.2	.04	4.0	13:56:04	88
350	37.1	.04	4.7	13:57:12	88
375	39.2	.04	3.3	13:58:04	88

Line 1100	Date 15	DEC 92	#20
-----------	---------	--------	-----

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
375	43.4	.04	3.0	14:01:05	88	
350	43.2	.04	2.7	14:02:20	88	
325	43.3	.04	2.2	14:02:58	88	
300	38.1	.03	3.5	14:04:14	88	
275	38.2	.03	3.1	14:05:02	88	
250	37.0	.04	3.9	14:05:48	88	

Line 1000 Date 15 DEC 92 #26

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
200	44.1	.03	3.7	14:09:19	88	
225	44.3	.04	3.9	14:09:58	88	
250	43.6	.04	4.1	14:10:47	88	
275	40.7	.03	3.6	14:11:47	88	
300	40.3	.04	4.1	14:12:56	88	
325	42.4	.04	3.5	14:13:57	88	
350	42.0	.04	4.4	14:15:02	88	
375	48.3	.04	4.0	14:16:02	88	
400	46.9	.04	4.6	14:16:31	88	

Line 900 Date 15 DEC 92 #35

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
400	51.3	.04	4.7	14:19:27	88	
375	48.7	.04	4.1	14:20:59	88	
350	44.0	.04	4.1	14:21:56	88	
325	44.2	.04	4.3	14:22:57	88	
300	43.0	.04	4.4	14:23:48	88	
275	55.7	.03	4.5	14:24:43	88	
250	45.0	.04	4.9	14:25:28	88	

Line 800 Date 15 DEC 92 #42

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
250	49.9	.04	5.4	14:27:10	88	
275	49.4	.04	5.0	14:27:48	88	
300	46.2	.04	4.8	14:28:44	88	
325	44.4	.04	4.7	14:29:42	88	
350	45.7	.04	5.0	14:32:08	88	
375	46.1	.04	5.3	14:34:11	88	
400	48.5	.04	5.9	14:35:15	88	
425	49.9	.04	5.3	14:36:19	88	

Line 700 Date 15 DEC 92 #50

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
450	69.7	.04	5.7	14:39:53	88	
425	64.2	.03	5.8	14:41:06	88	
400	54.9	.04	5.3	14:42:59	88	
375	54.1	.04	5.4	14:43:15	88	
350	51.7	.03	5.6	14:44:09	88	
325	48.6	.04	5.5	14:44:57	88	
300	51.9	.04	5.2	14:45:44	88	
275	50.2	.04	5.2	14:46:33	88	
250	51.9	.04	5.4	14:47:00	88	

Line 600 Date 15 DEC 92 #59

POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
250	61.0	.04	5.7	14:51:10	88	

275	60.7	.03	6.1	14:52:25	88
300	56.7	.04	5.8	14:53:10	88
325	58.7	.03	6.2	14:54:00	88
350	62.1	.04	6.0	14:54:41	88
375	60.2	.04	6.0	14:55:41	88
400	67.3	.04	5.9	14:57:06	88
425	58.8	.04	5.4	14:58:14	88
450	55.0	.04	4.7	14:59:02	88

Line	500	Date	15	DEC	92	#68		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
450	58.9	.04	5.3	15:02:14	88			
425	62.6	.04	6.1	15:04:26	88			
400	64.1	.04	6.8	15:05:11	88			
375	68.1	.03	7.2	15:06:07	88			
350	53.9	.03	7.2	15:08:27	88			
325	59.5	.04	7.5	15:09:55	88			
300	61.3	.04	6.7	15:11:46	88			
275	65.8	.04	6.6	15:12:31	88			
250	78.4	.03	6.8	15:13:18	88			
225	65.9	.03	7.4	15:14:18	88			
200	70.3	.04	7.7	15:14:45	88			

Line	400	Date	15	DEC	92	#79		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
150	77.8	.04	9.9	15:18:10	88			
175	74.9	.04	10.0	15:19:08	88			
200	72.3	.04	10.2	15:19:48	88			
225	74.4	.04	10.0	15:20:36	88			
250	69.9	.04	9.6	15:21:49	88			
275	68.9	.04	9.7	15:22:59	88			
300	70.4	.04	9.8	15:23:57	88			
325	70.1	.04	10.5	15:24:49	88			
350	66.4	.04	11.2	15:25:33	88			
375	68.0	.03	11.9	15:26:22	88			
400	62.4	.04	12.4	15:27:09	88			

Line	300	Date	15	DEC	92	#90		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
400	67.1	.04	13.1	15:29:00	88			
375	68.9	.03	12.2	15:30:12	88			
350	68.4	.03	11.8	15:31:03	88			
325	71.3	.04	12.0	15:31:53	88			
300	66.0	.03	12.2	15:32:55	88			
275	62.2	.03	12.3	15:33:46	88			
250	71.9	.03	12.9	15:34:51	88			
225	70.9	.04	12.7	15:35:55	88			
200	77.5	.03	13.1	15:36:50	88			
175	79.0	.03	13.8	15:37:49	88			

Line	200	Date	15	DEC	92	#100		
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT		
175	76.2	.04	15.4	15:40:23	88			
200	82.0	.03	16.1	15:41:42	88			
225	80.7	.04	16.6	15:42:39	88			
250	75.6	.04	17.3	15:43:46	88			



275	72.6	.04	17.9	15:44:45	88
300	63.2	.04	18.2	15:45:38	88
325	73.9	.04	18.7	15:46:59	88
350	72.3	.04	19.2	15:47:40	88
375	71.7	.03	19.4	15:48:21	88
400	69.5	.04	19.2	15:49:14	88

Line	100	Date	15 DEC 92		#110	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
400	76.7	.03	18.6	15:51:55	88	
375	74.2	.04	19.1	15:53:05	88	
350	73.9	.04	19.3	15:53:59	88	
325	75.9	.04	19.4	15:54:53	88	
300	75.4	.03	19.4	15:55:45	88	
275	76.2	.03	19.4	15:56:35	88	
250	79.5	.04	19.2	15:57:27	88	
225	85.3	.04	19.1	15:58:26	88	
200	87.8	.04	19.3	15:59:00	88	

Line	0	Date	15 DEC 92		#119	
POSITION	FIELD	ERR	DRIFT	TIME	DS	CULT
225	93.0	.03	18.5	16:02:00	88	
250	87.2	.04	18.7	16:03:24	88	
275	85.4	.04	18.8	16:04:12	88	
300	86.6	.04	19.0	16:05:01	88	
325	80.0	.04	18.5	16:05:59	88	
350	49.0	.04	18.6	16:06:45	88	
375	80.4	.04	18.5	16:07:27	88	
400	78.1	.04	18.3	16:07:59	88	
175	93.0	.04	20.7	16:16:52	88	

EOF



Ontario



41115NW9290 2.14961 FRALECK

900

Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines

Geoscience Approvals Section  
Mining and Land  
Management Branch  
Willet Green Miller Centre  
933 Ramsey Lake Road  
6th Floor  
Sudbury, Ontario  
P3E 6B5

Telephone: (705) 670-5853  
Fax: (705) 670-5863

Our File: 2.14961  
Transaction #: W9370.00012

JULY 13, 1993

Mining Recorder  
Ministry of Northern Development  
and Mines  
933 Ramsey Lake Road  
3rd Floor  
Sudbury, Ontario  
P3E 6B5

Dear Sir:

**RE: APPROVAL OF ASSESSMENT WORK ON MINING CLAIMS S 985162 ET. AL. IN  
FRALECK TOWNSHIP.**

The Assessment Credits for GEOLOGY and GEOPHYSICS, sections 12 and 14 of the Mining Act Regulations, as listed on the attached assessment work credit form, have been approved as of JULY 5, 1993.

Please indicate this approval on the claim record sheets.

If you have any questions please call Clive Stephenson at (705) 670-5856.

Yours sincerely,

Ron C. Gashinski  
Senior Manager, Mining and Land  
Management Branch  
Mines and Minerals Division

CDS/jl

Enclosures:

cc: Assessment Files Office  
Toronto, Ontario

Resident Geologist  
Sudbury, Ontario

**ASSESSMENT WORK CREDIT FORM**

**FILE NUMBER: 2.14961**  
**DATE: JULY 05, 1993**  
**TRANSACTION NUMBER: W9370.00012**

**RECORDED HOLDER: JOHN BRADY**  
**CLIENT NUMBER: 111562**  
**TOWNSHIP: FRALECK**

<b>CLAIM NUMBER</b>	<b>VALUE OF ASSESSMENT WORK DONE ON THIS CLAIM</b>	<b>VALUE APPLIED TO THIS CLAIM</b>	<b>VALUE ASSIGNED FROM THIS CLAIM</b>
S 985162	\$ 1 432.00	\$ 920.00	\$ 512.00
S 985163	\$ 1 432.00	\$ 920.00	\$ 512.00
S 985164	\$ 1 432.00	\$ 780.00	\$ 652.00
S 1076451	\$ 1 432.00	\$ 903.00	\$ 529.00
S 1118338	\$ 2 862.00	\$ 1 600.00	\$ 1 262.00
S 1118339	\$ 0.00	\$ 1 600.00	\$ 0.00
S 1179548	\$ 0.00	\$ 400.00	\$ 0.00
S 1118340	\$ 0.00	\$ 1 467.00	\$ 0.00
S 1076453	\$ 0.00	\$ 0.00	\$ 0.00
<b>TOTALS</b>	<b>\$ 8 590.00</b>	<b>\$ 8 590.00</b>	<b>\$ 3 467.00</b>

**Report of Work Conducted After Recording Claim**

Mining Act

Transaction Number  
W9370.00012

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.14961

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s) John Brady	Client No. 111562
Address 1227 Holland Rd. Sudbury, ONT. P3A3R1	Telephone No. 5254129
Mining Division Sudbury	Township/Area FRALICK
M or G Plan No.	
Date Work Performed From: Nov 15/92	To: Dec 15/92

**Work Performed (Check One Work Group Only)**

Work Group	Type
Geotechnical Survey	MAGNETOMETER AND ELECTRO-MAGNETIC (ULF-EM)
Physical Work, Including Drilling	GEOPHYSICAL & GEOLOGICAL RECEIVED
Rehabilitation	MAR 29 1993
Other Authorized Work	MINING LANDS BRANCH
Assays	
Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 11,403.<sup>00</sup>

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
NORWIN GEOLOGICAL	566 NOTRE DAME AVE. SUDBURY, ONT

RECORDED  
FEB 16 1993  
Receipt 2774

(attach a schedule if necessary)

**Certification of Beneficial Interest \* See Note No. 1 on reverse side**

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date Feb 12/93	Recorded Holder or Agent (Signature) J Brady
--	-------------------	---

**Certification of Work Report**

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

Name and Address of Person Certifying J BRADY 1227 HOLLAND RD. SUDBURY, ONT.
Telephone No. 5254129
Date Feb 12/93
Certified By (Signature) J Brady

**For Office Use Only**

Total Value Cr. Recorded 811,403	Date Recorded February 16/93	Mining Recorder <i>[Signature]</i>	Received Stamp SUDBURY. MINING DIV. RECEIVED FEB 16 1993 A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.
Deemed Approval Date MAY 24, 1993	Date Approved	Date Notice for Amendments Sent	

11:25 KB



Statement of Costs for Assessment Credit

Transaction No./N° de transaction

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type Geophysical		
	Geological	11,403. <sup>50</sup>	11,403. <sup>50</sup>
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
Total Direct Costs Total des coûts directs			11,403. <sup>50</sup>

2. Indirect Costs/Coûts indirects

\*\* Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démoblisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	11,403. <sup>50</sup>

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note: Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

RECEIVED

MAR 29 1993

Filing Discounts

MINING LANDS BRANCH

Remises pour dépôt

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	× 0,50 =

Certification Verifying Statement of Costs

Attestation de l'état des coûts

I hereby certify: that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

J'atteste par la présente: que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

that as Recorded Holder I am authorized (Recorded Holder, Agent, Position in Company)

Et qu'à titre de \_\_\_\_\_ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

to make this certification

à faire cette attestation.

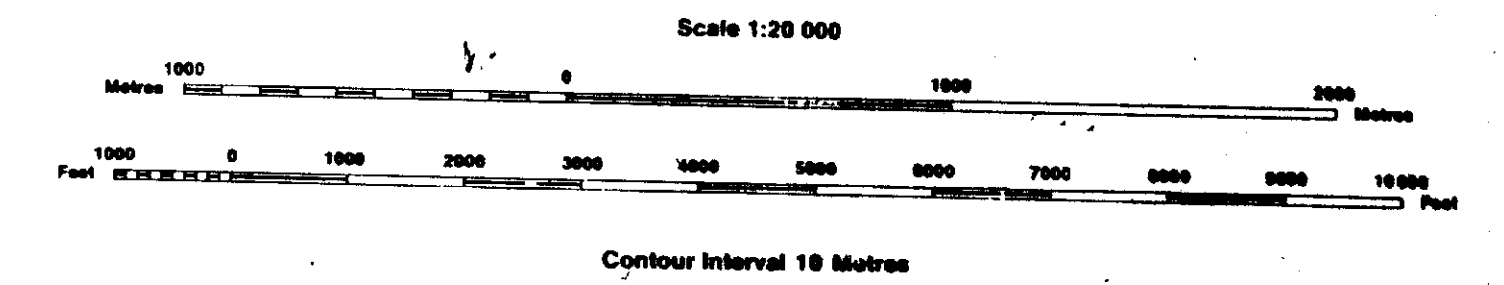
Signature J. Brady Date Feb 12/93



**INDEX TO LAND DISPOSITION**

PLAN  
G-4050  
TOWNSHIP  
FRALECK

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



**AREAS WITHDRAWN FROM DISPOSITION**

Description	Order No.	Date	Disposition	File
MRO - Mining Rights Only				
SRO - Surface Rights Only				
M + S - Mining and Surface Rights				
Sec. 32/80				
	W.E./82	14/2/82	S.R.O.	15339

**SYMBOLS**

- Boundary
- Township, Meridian, Baseline
- Road allowance; surveyed
- shoreline
- Lot/Concession; surveyed
- unsurveyed
- Parcel; surveyed
- unsurveyed
- Right-of-way; road
- railway
- utility
- Reservation
- Cliff, Pit, Pile
- Contour
- interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway; single track
- double track
- abandoned
- Road; highway, county, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

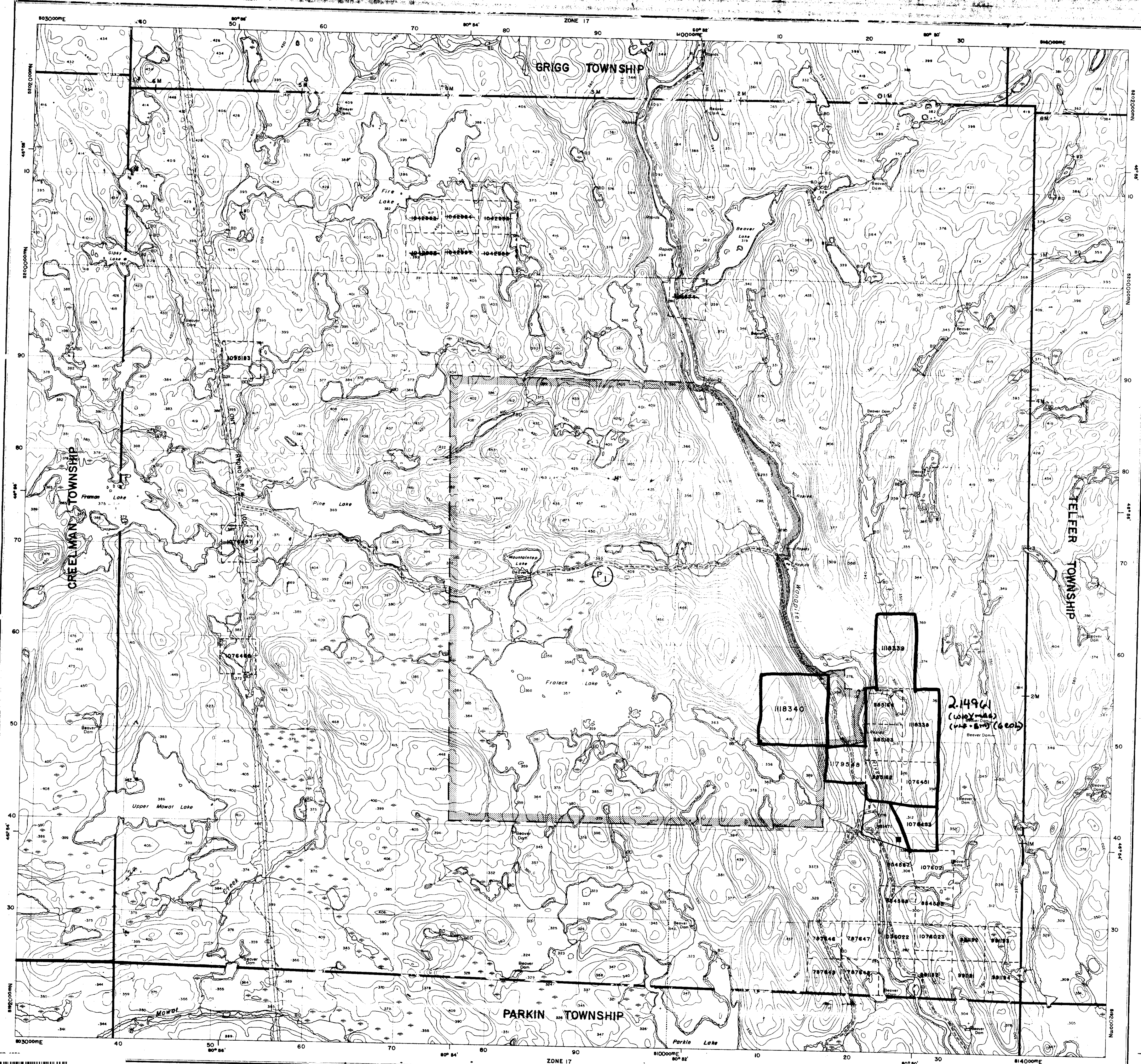
**DATE OF ISSUE**  
MAR 1 1993  
SUDBURY  
MINING RECORDER'S OFFICE

**DISPOSITION OF CROWN LANDS**

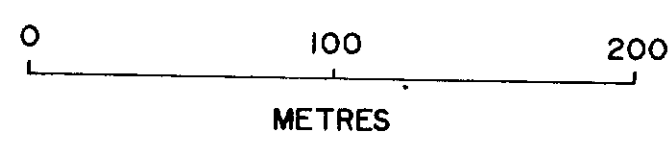
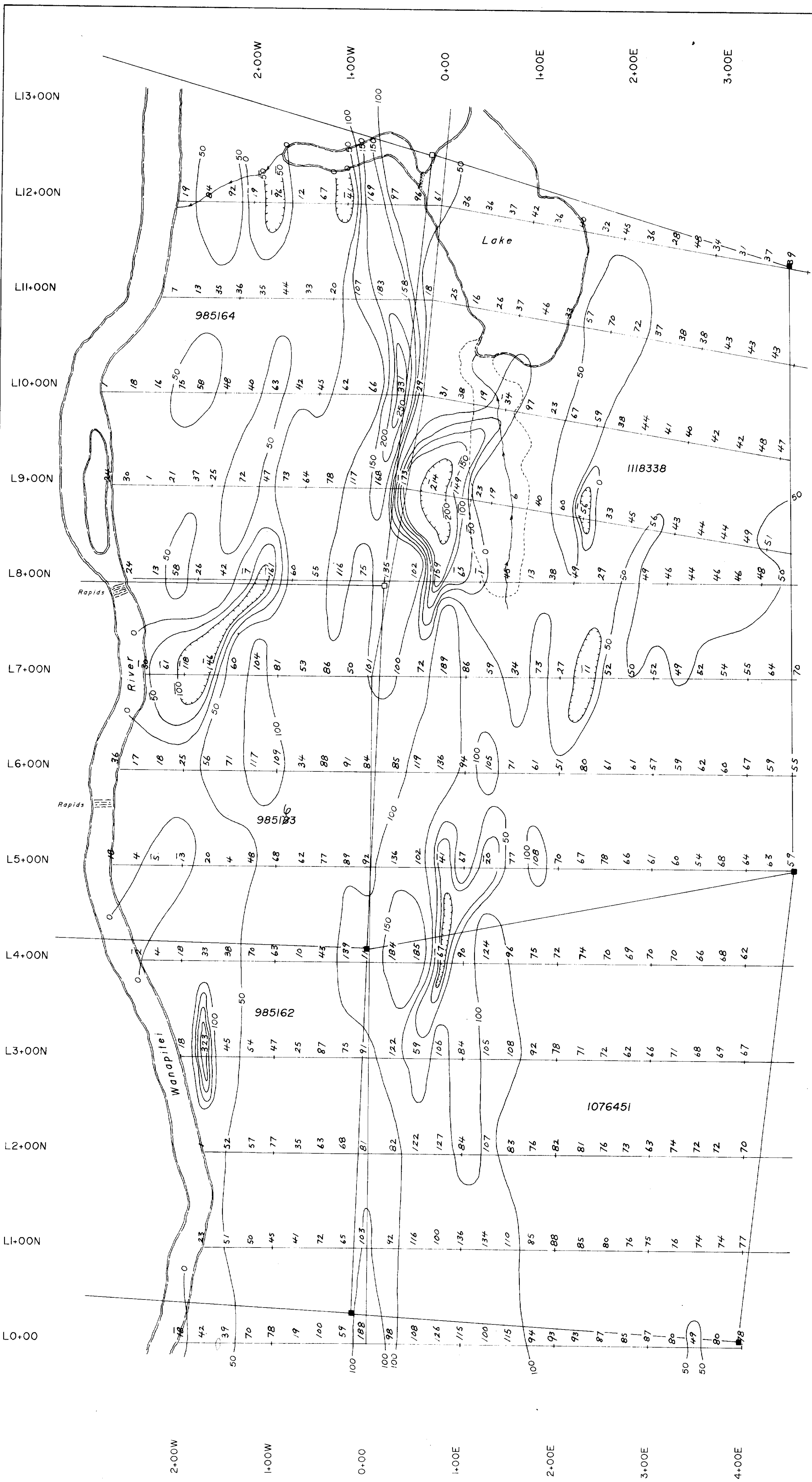
- Patent
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only
- Lease
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only
- Licence of Occupation
- Order-in-Council
- Cancelled
- Reservation
- Cr'n J & Gravel

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 THE LANDS SHOWN HEREON.

IN SERVICE AUG. 17, 1992







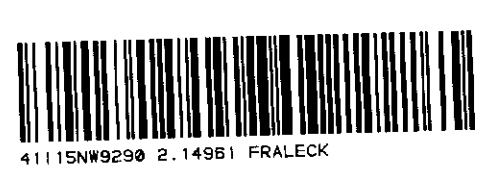
**LEGEND**  
 REFERENCE FIELD : 58000 nT  
 DATUM SUBTRACTED : 58000 nT  
 CONTOUR INTERVAL : 50 nT  
 LINE SPACING : 100 Metres  
 STATION SPACING : 25 Metres  
 INSTRUMENTATION : OMNI PLUS MAGNETOMETER  
 VLF STATION  
 OMNI IV MAGNETOMETER  
 BASE STATION  
 PERSONNEL : D. Patrie, B. Patrie  
 SURVEY DATES : DECEMBER, 1992

**2.1496**

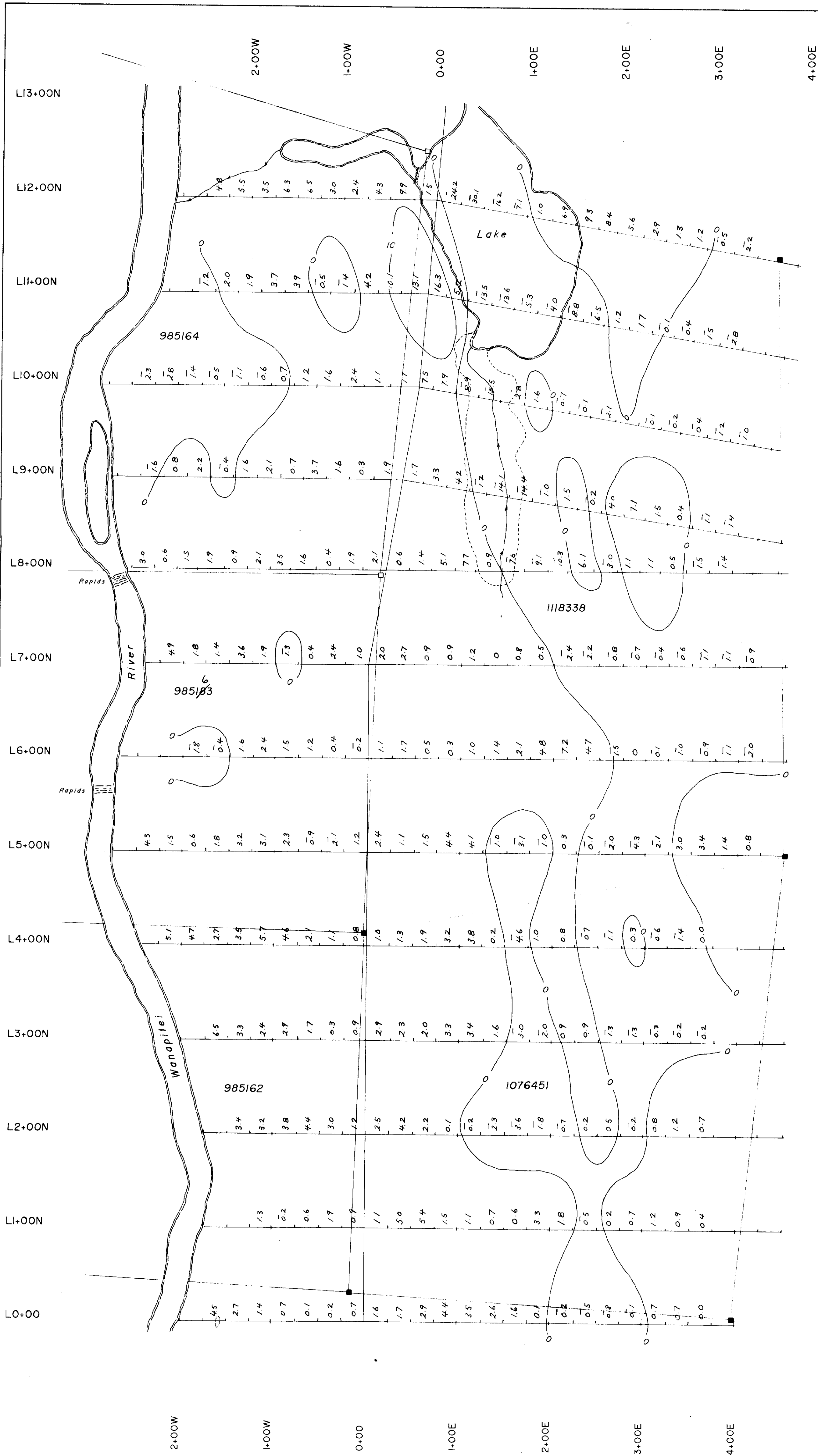
**MAP I**



J. BRADY  
 FRALECK TOWNSHIP  
 SUDBURY MINING DISTRICT ONTARIO  
**TOTAL FIELD  
 MAGNETOMETER SURVEY**  
 BY: NORWIN GEOLOGICAL LTD.  
 SCALE: 1 : 250 NTS:  
 PREPARED BY: S.W. DRAWN BY: E.P.  
 DATE: DEC., 1992



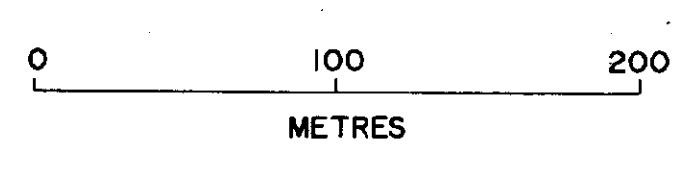




**LEGEND**

FILTER LENGTH : 4-Point  
 TRANSMITTER STATION : Cutler, Maine, U.S.A.  
 TRANSMITTER FREQUENCY : 24.0 kHz  
 CONTOUR INTERVAL : 10%  
 LINE SPACING : 100 Metres  
 STATION SPACING : 25 Metres  
 INSTRUMENTATION : OMNI Plus Magnetometer  
 VLF System

PERSONNEL : D. Patrie, B. Patrie  
 SURVEY DATES : DECEMBER, 1992



**2.14961**  
 MAP 2

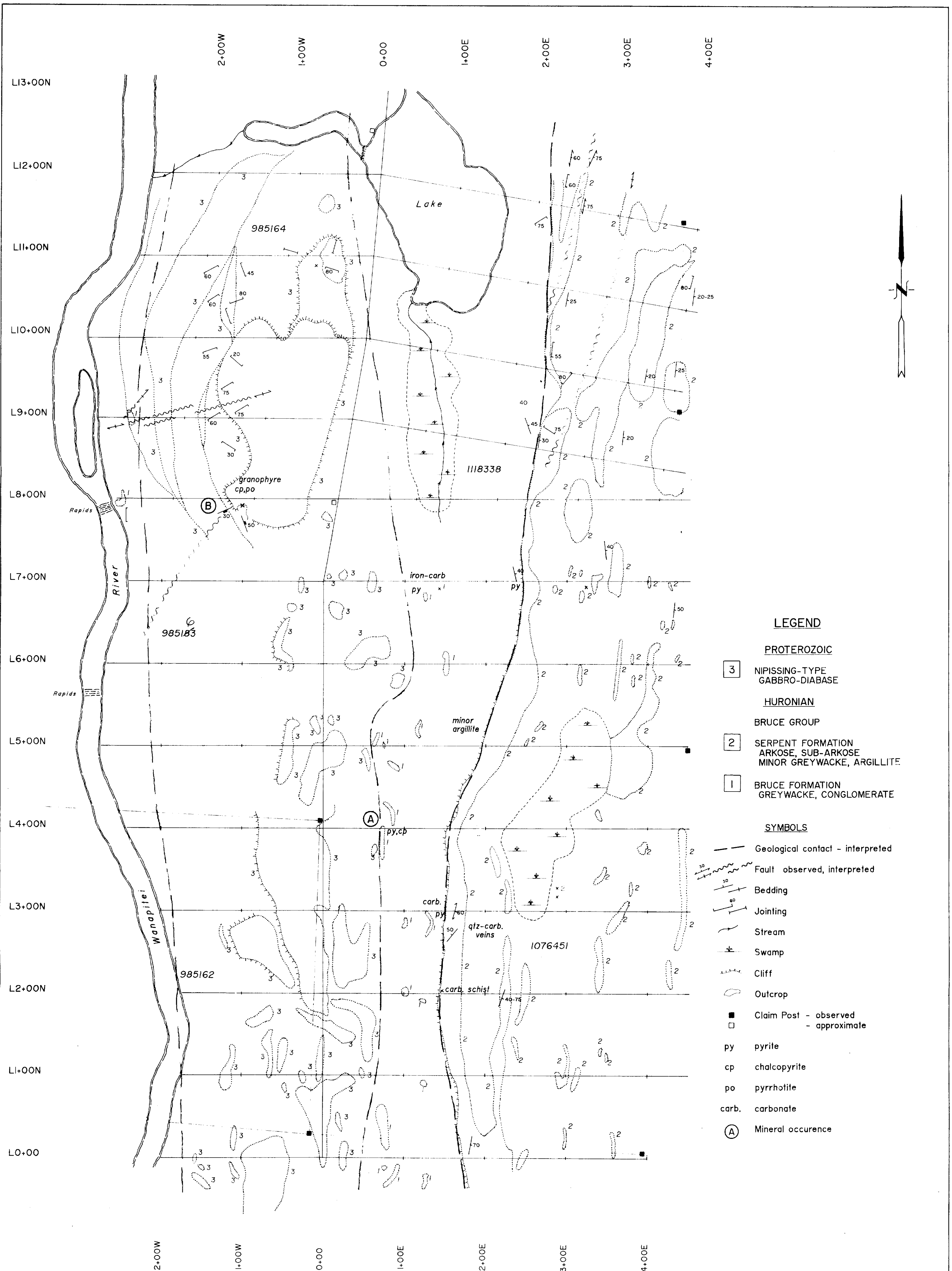


J. BRADY  
 FRALECK TOWNSHIP  
 SUDBURY MINING DISTRICT ONTARIO

**VLF-EM SURVEY  
 FRASER FILTER PLOT**

BY: NORWIN GEOLOGICAL LTD.  
 SCALE: 1 : 250 NTS:  
 PREPARED BY: S.W. DRAWN BY: E.P.  
 DATE: DEC., 1992





**LEGEND**

**PROTEROZOIC**

3 NIPISSING-TYPE  
GABBRO-DIABASE

**HURONIAN**

**BRUCE GROUP**

2 SERPENT FORMATION  
ARKOSE, SUB-ARKOSE  
MINOR GREYWACKE, ARGILLITE

1 BRUCE FORMATION  
GREYWACKE, CONGLOMERATE

**SYMBOLS**

- Geological contact - interpreted
- ~ Fault observed, interpreted
- ▬ Bedding
- ⊥ Jointing
- ~ Stream
- ⊕ Swamp
- ▬ Cliff
- Outcrop
- Claim Post - observed
- Claim Post - approximate
- py pyrite
- cp chalcopyrite
- po pyrrhotite
- carb. carbonate
- (A) Mineral occurrence

**2. 14961**  
MAP 3

J. BRADY  
FRALECK TOWNSHIP  
SUDBURY MINING DISTRICT ONTARIO

**GEOLOGY**

BY: NORWIN GEOLOGICAL LTD.  
SCALE: 1 : 250 NTS:  
PREPARED BY: S.W. DRAWN BY: E.P.  
DATE: DEC., 1992

