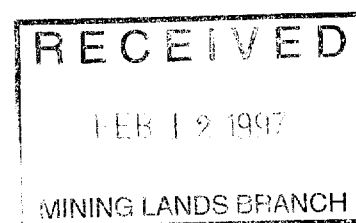


42A08NW0023 2.17049 GUIBORD

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REPORT ON EXPLORATION ACTIVITIES
PLAYFAIR AND GUIBORD TOWNSHIPS
LARDER LAKE MINING DIVISION
DISTRICT OF COCHRANE, ONT.
FOR
S.J. CARMICHAEL

2.17049



Qual. #

S.J. CARMICHAEL
KIRKLAND LAKE
ONTARIO

JANUARY, 1997

TABLE OF CONTENTS

PROJECT AREA 1 - PLAYFAIR TOWNSHIP (section 1)

	PAGE
INTRODUCTION.....	1
LOCATION AND ACCESS.....	1
LAND TENURE AND OWNERSHIP.....	1
PREVIOUS WORK.....	2
PROPERTY GEOLOGY.....	3
1996 EXPLORATION PROGRAM.....	4
TOTAL FIELD MAGNETICS SURVEY.....	4
SUMMARY AND CONCLUSIONS.....	5

LIST OF FIGURES

	FOLLOWING PAGE
FIGURE 1 - GENERAL LOCATION PLAN.....	1
FIGURE 2 - CLAIM LOCATION PLAN.....	2
FIGURE 3 - REGIONAL GEOLOGY.....	3

LIST OF DRAWINGS (BACK POCKET)

DRAWING No.1 - TOTAL FIELD MAGNETICS SURVEY, SCALE 1:4000

PROJECT AREA 2 - GUIBORD TOWNSHIP (Section 2)

INTRODUCTION.....	7
LOCATION AND ACCESS.....	7
LAND TENURE AND OWNERSHIP.....	8
PREVIOUS WORK.....	8
PROPERTY GEOLOGY.....	9
1996 EXPLORATION PROGRAM.....	10
TOTAL FIELD MAGNETICS SURVEY.....	10
INDUCED POLARIZATION SURVEY.....	11
SUMMARY AND CONCLUSIONS.....	12

LIST OF FIGURES

	FOLLOWING PAGE
FIGURE 1 - GENERAL LOCATION PLAN.....	7
FIGURE 2 - CLAIM LOCATION PLAN.....	8
FIGURES 3, - REGIONAL GEOLOGY.....	9

LIST OF DRAWINGS (BACK POCKET)

Drawing No.1 - Total Field Magnetism Survey, Scale 1:2500
 Drawing No. 2 - Compilation Plan, Scale 1:2500



42A08NW0023 2.17049 GUIBORD

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LIST OF APPENDICES

APPENDIX I - CERTIFICATE OF QUALIFICATIONS
APPENDIX II - SOURCES OF INFORMATION
APPENDIX III - STATEMENT OF EXPENDITURES
APPENDIX IV - REPORT OF INDUCED POLARIZATION SURVEYS BY G. LAMBERT

SECTION 1 - CDK-PLAYFAIR GOLD PROPERTY

INTRODUCTION

Exploration work completed on the CDK Playfair gold property included 11.6 kilometres of gridding followed by total field magnetics survey

PROPERTY LOCATION AND ACCESS

The property comprises 10 contiguous staked mining claims of 50 units located in the central west portion of Playfair Township approximately 42 kilometres northwest of Kirkland Lake and 13 kilometres southeast of Matheson.

Access from Kirkland Lake is by Highway 11 to a point 3 kilometres south of Ramore. A concession road leads west across Playfair Township. Recent logging roads then lead north to the grided section of the property.

LAND TENURE AND OWNERSHIP

The Playfair Township property comprises 10 contiguous staked mining claims of 50 units with an area of approximately 800 hectares (figure 2). Ownership is held by S. Carmichael (50%) and M. Dyment/J.Kidston (50%).

The status and ownership is described in the following table:

CDK PLAYFAIR GROUP

CLAIM No.	RECORDED DATE	#UNITS	APPLIED ASSESSMENT	ASSESSMENT DUE
1211867	Feb. 28/96	6	\$0.00	\$2,400.00 by Feb. 28/98
1213821	March.25/96	9	\$0.00	\$3,600.00 by March 25/98
1213822	March.25/96	4	\$0.00	\$1,600.00 by March 25/98
1213823	March.25/96	15	\$0.00	\$6,000.00 by March 25/98
1213824	March.25/96	2	\$0.00	\$800.00 by March 25/98
1213825	March.25/96	1	\$0.00	\$400.00 by March 25/98
1217534	July 16/96	8	\$0.00	\$3,200.00 by July 16/98
1217535	July 16/96	1	\$0.00	\$400.00 by July 16/98
1217536	July 16/96	2	\$0.00	\$800.00 by July 16/98
1217560	July 16/96	2	\$0.00	\$800.00 by July 16/98

PREVIOUS WORK

The property was first explored in 1935 with the most recent work in 1990. The following is a summary of work:

pre-

1935: Moore (1937) indicated that prior to 1935, Noranda Mines Ltd. performed 400 feet of trenching and diamond drilling. No assessment files at the resident Geologist's office provides any details of Noranda's work here.

1945: Temple Gold Mines Ltd. diamond drilled 15 holes totalling 2,506 feet which were targeted on pyritic quartz vein material which was exposed in 5 trenches. Trench chip samples taken by Temple Gold Mines returned assays as high as 0.22 oz Au over 21 feet.

1973-74: Sherwin Minerals Ltd. completed magnetic and geological surveys of 14 contiguous claims in Playfair Township, including the west half of the south half of Lot 12, Conc. IV, where the trenched and drilled veins are located. In 1974, Sherwin Minerals diamond drilled 2 holes totalling 1,004 feet. These holes were located a few hundred metres northeast of the trenched veins.

1975: Spar Holdings and Explorations Ltd. geologically mapped the area samples and drilled by Temple Gold Mines.

1988: M. Charet (prospector) staked several contiguous claims in northwest central Playfair Township.

1989: The property was examined by Ontario Geological Survey Geologist A. Bath. Six trenches were examined and sampled with assays from 0.002 to 0.431 oz Au/ton returned from four of the trenches. Bath recommended that future work should be along a north-south grid system.

McCANN TWP.

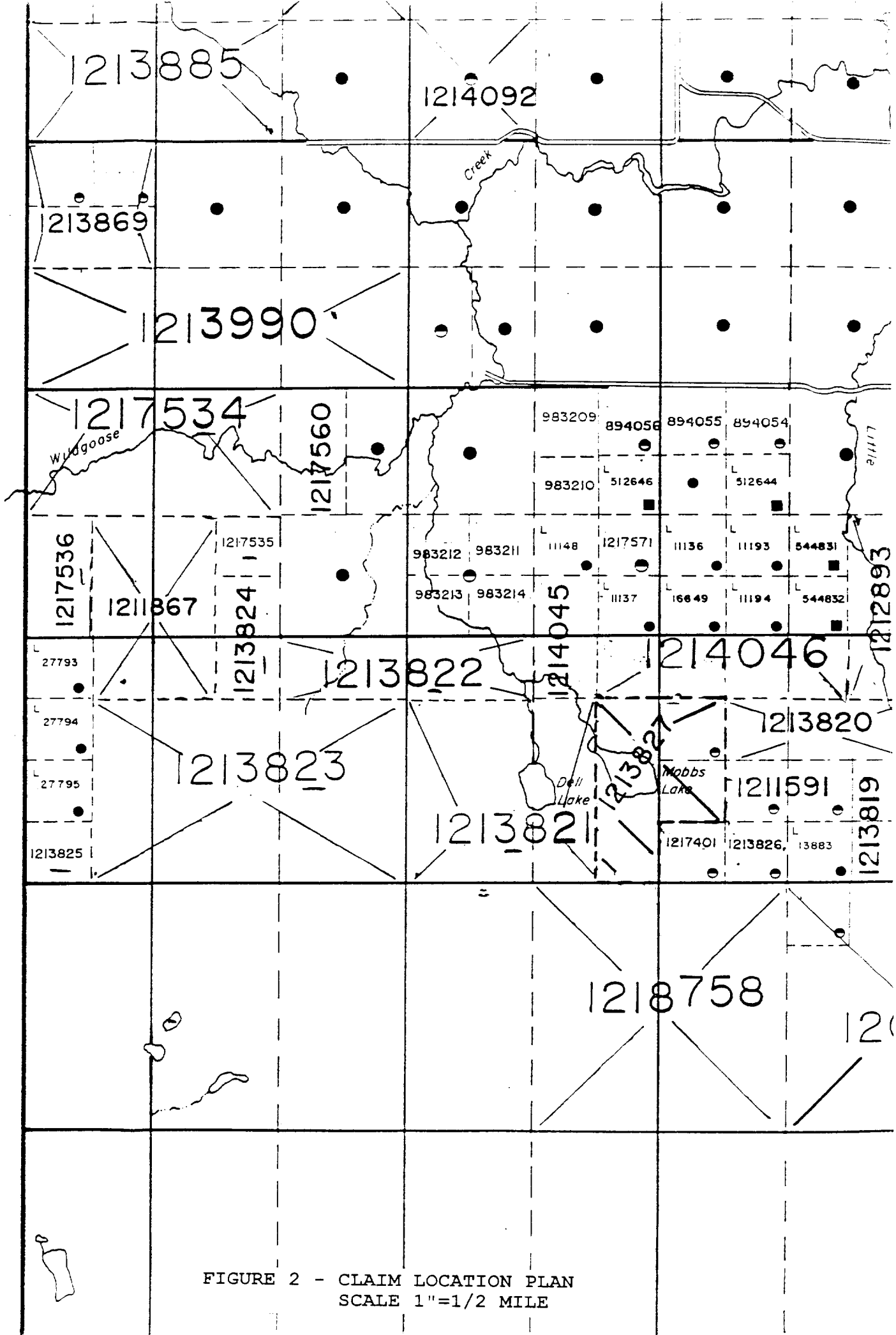


FIGURE 2 - CLAIM LOCATION PLAN
SCALE 1"=1/2 MILE

1990: W. Weisflock/L. Salo staked seven claims over the main showing area. Their work included Total Field Magnetism survey, blasting and sampling. Assays as high as 5 gms/tonne Au were returned.

PROPERTY GEOLOGY

Geological mapping by Jensen (1989), Jensen and Baker (1986) and by Johnston and Steele (1989) indicates that the trenched area is underlain by weakly metamorphosed east southeast striking, steeply dipping and south facing fine to medium-grained massive, pillowed and feldspar phyric tholeiitic basalt of the Kinojevis Group. The occurrence is about 12.5 kilometres southwest of the Porcupine-Destor Fault Zone and occupies the north limb of the east striking and east plunging Blake River Synclinorium. Intrusive rocks in the area include narrow generally north striking diabase dikes and small mafic and alkalic intrusive bodies with minor felsic syenite.

Detailed mapping by Sherwin Mines indicates that in the trenched area, narrow east striking dikes of porphyry are present.

A. Bath suggests that the vein system and mineralization may be associated with either a north to northeast striking fold axis of a gentle convex north bedrock fold or a fault. The mineralization, as described by Bath comprises fine quartz veins and stringers with pervasive silicification and pyrite mineralization of the host volcanics. His best sample, which assayed 0.431 oz/ton is described as a sheeted white quartz vein mineralized with 3-5% pyrite. Another sample from a different

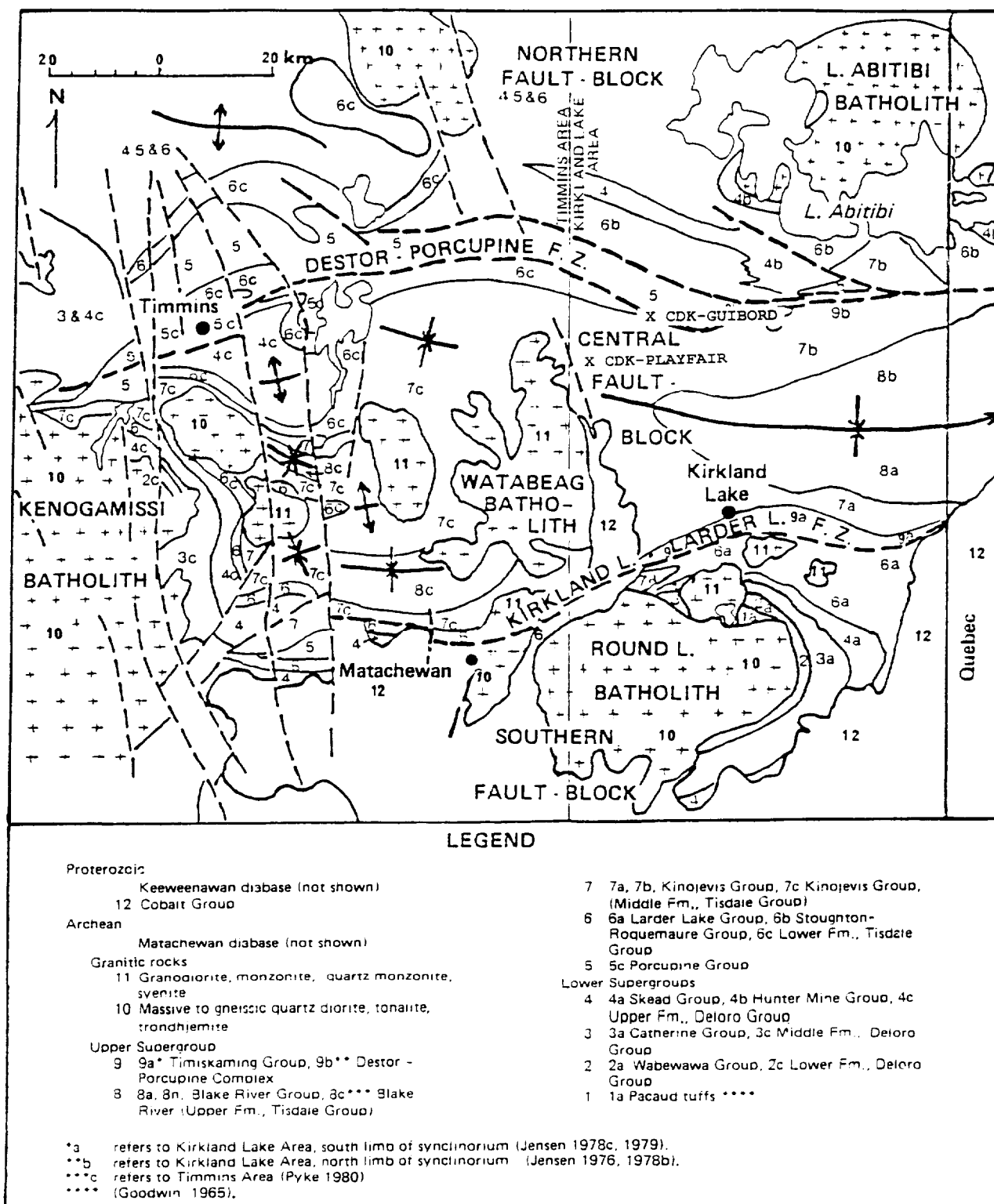


FIGURE 3 - REGIONAL GEOLOGY
 (FROM JENSEN AND LANGFORD, 1985)

trench which assayed 0.232 oz/ton is described as light grey to mauve coloured, pervasively silicified, non-magnetic mineralized with 7-10% fine pyrite cubes.

1996 EXPLORATION PROGRAM

Following the recommendations by OGS geologist A. Bath, a grid was cut over the trenched areas comprising a 1.3 km baseline with 13 cross lines cut at 100 metre centres. The original OPAP proposal included gridding, mapping and VLF-EM surveys. Although the grid was started in early October, it was not finished until mid January due to delays with the contractor. It was thus not feasible to map the property. The VLF survey could not be completed because the Annapolis NSS VLF station was de-commissioned during the summer.

TOTAL FIELD MAGNETICS SURVEY

The total field magnetics survey was completed by B. Madill using a Geometrics G-816 Proton Magnetometer. Readings were taken at 12.5 metre centres with diurnal corrections made using a base station (Line 0N, 0+00) read throughout the day. The readings were then contoured at a 50nT interval by this author.

Two distinct magnetic patterns are present. South of line 7+00N the magnetic response is flat indicating a possible intermediate to felsic intrusive up to 400 metres in width open to the east. North of line 7+00N the magnetics are much higher and

irregular indicating mafic volcanics (Fe-tholeiites). The irregular magnetic response may be due in part to the orientation of the grid with cross lines following the stratigraphy. There does not appear to be any evidence of a north-south striking structure. A west northwest striking magnetic low centred on line 8+00N, 2+00W to 4+00W may be a strike fault or syenite dike.

The trenches and early diamond drilling are located approximately on line 9+00N, 0+00 and within a magnetic high. There does not appear to be any observable trend associated with the trenches.

SUMMARY AND CONCLUSIONS

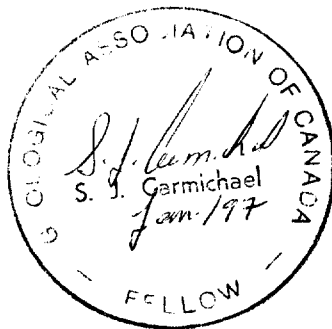
The ground magnetics survey does not appear to show any discernable trend associated with gold mineralization over the trenched area. The survey has identified at least two magnetic features which should be further explored. If the magnetic low is caused by a felsic intrusive, the contact area around the intrusive could contain gold mineralization as well as the dike or fault located on line 8+00N.

The geometry of the vein system is still not clear. Although Bath suggests the vein system is north-south dipping shallowly to the west, he also points out that the trenches are for the most part overgrown.

Although the gold mineralization appears to be associated with silicification and pyrite mineralization, the presence of magnetite

in the volcanics could interfere with a normal Time Domain or Phase Induced Polarization survey. Spectral Time Domain I.P. may be able to distinguish magnetite from disseminated sulfides.

Additional work should consist of an initial program of stripping and washing over the main showing area. The orientation of the vein system should then be resolved. An Induced Polarization survey should follow both over the showing area as well as the remainder of the grid. If the vein orientation is east-west along stratigraphy rather than north-south, the area of interest should be re-grided prior to surveying.



SECTION 2 - CDK-GUIBORD GOLD PROPERTY**INTRODUCTION**

The original OPAP proposal included gridding, Total Field magnetics and Induced Polarization surveys over the single-unit claim 1211778. As stated in the proposal, additional key claims came open for staking during the summer and three additional claims (5 units) were staked. These claims are very important and excess funds from the Playfair project as well as funds above the OPAP grant were allocated to the Guibord project. The additional funds allowed gridding, Total Field magnetics and Induced Polarization surveys to be completed over two of the additional claims.

PROPERTY LOCATION AND ACCESS

The property comprises two non-contiguous staked blocks, one single unit claim (1211778) and 3 contiguous claims containing 5 units. The two blocks are separated by a single unit claim which may be open for staking this summer.

Access to the single unit claim from Kirkland Lake is by Highway 11 north 39 kilometres to the town of Ramore. Regional Highway 572 leads from Ramore to the town of Holtyre. The single unit claim is located 400 metres north of Holtyre along the east side of the highway. The remaining claims are located 400 metres to the east along the Conc. II-III line. Both claim blocks are

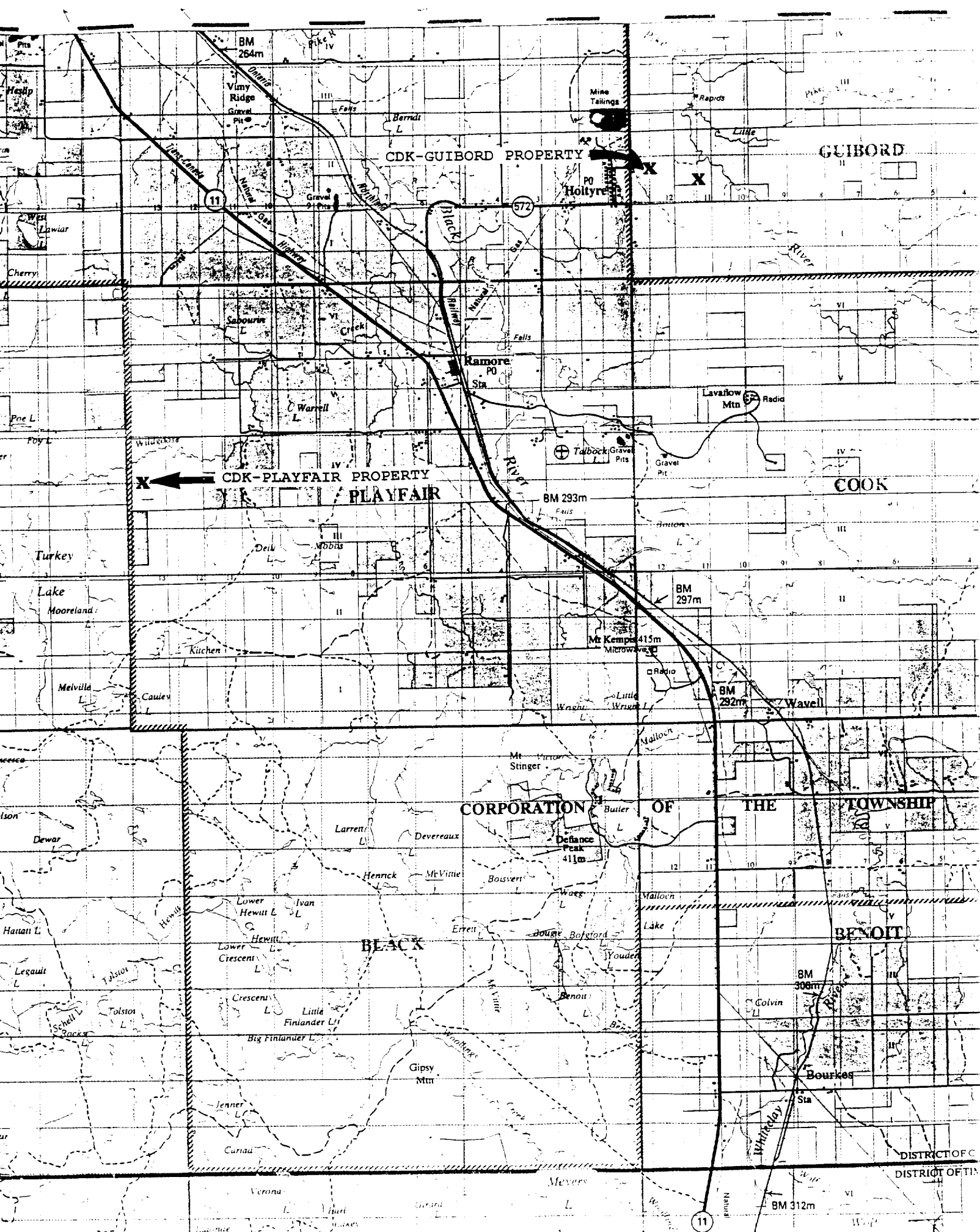


FIGURE 1 - GENERAL LOCATION PLAN
SCALE 1:100 000

entirely covered by glacial deposits, are flat and covered by stunted black spruce. The Pike River runs through the central portion of claim 1217445 of the East Block.

LAND TENURE AND OWNERSHIP

The CDK-Guibord property comprises two non-contiguous staked blocks, one single unit claim (1211778) and 3 contiguous claims containing 5 units. The two blocks are separated by a single unit claim which may be open for staking this summer. Ownership is held by S. Carmichael (50%) and M. Dymont/J.Kidston (50%).

The status and ownership is described in the following table:

CDK GUIBORD GROUP				
WEST BLOCK				
CLAIM No.	RECORDED DATE	#UNITS	APPLIED ASSESSMENT	ASSESSMENT DUE
1211778	Jan. 5/96	1	\$0.00	\$400.00 by Jan. 5/98
EAST BLOCK				
CLAIM No.	RECORDED DATE	#UNITS	APPLIED ASSESSMENT	ASSESSMENT DUE
1214395	June 17/96	1	\$0.00	\$400.00 by June 17/98
1214398	June 17/96	2	\$0.00	\$800.00 by June 17/98
1217445	June 17/96	2	\$0.00	\$800.00 by June 17/98

PREVIOUS WORK

In 1941, as part of an option by the Ross Mine (Hollinger Mines Ltd.), two surface diamond drill holes were completed on the East Block single-unit claim 1211778 following a total field magnetics survey. Both holes intersected interesting gold values including 0.31 oz/ton over 2.0 feet and 0.17 oz/ton over 5.0 feet.

FIGURE 2 - CLAIM LOCATION PLAN
SCALE 1"=1/2 MILE

FIGURE 2 - CLAIM LOCATION PLAN
SCALE 1"=1/2 MILE

It is not clear whether two parallel zones were intersected or one zone between the two holes.

Work on the 5 unit West Block includes 5 complete and one partial drill on present claims 1214398 and 1217445. Four of these holes were drilled as a fence sequence and intersected a layered sequence of greywacke sediments volcanics comprising mafic flows and explosive fragmentals. Some of the volcanics are described as being serpentized indicating that ultramafic chemistry may be present. An assay of 0.18 oz/ton Au over 2.0' was reported from hole #13. The description and assaying indicates that the hole was re-logged and sampled after the drilling. Hole #17 reported silicification and mariposite (green carbonate) over a core length of 49 ft. This hole would have been located along the south boundary of present claim 1214398. (see compilation plan)

PROPERTY GEOLOGY

Mapping by ODM geologist V.K. Prest (1951) indicates that both properties are underlain by west northwest trending sequences of intercalated sediments and acid volcanics intruded by conformable lenses of diorite gabbro. The diorite gabbro lenses, as described in the South Porcupine Syndicate drill logs are likely medium-grained ultramafic flows locally serpentized and altered to weakly fuchsitic green carbonate. The sediments likely belong to the Porcupine Group, the volcanics to the Stoughton Roquemaure Group. Interpretation of the property geology is based on the South

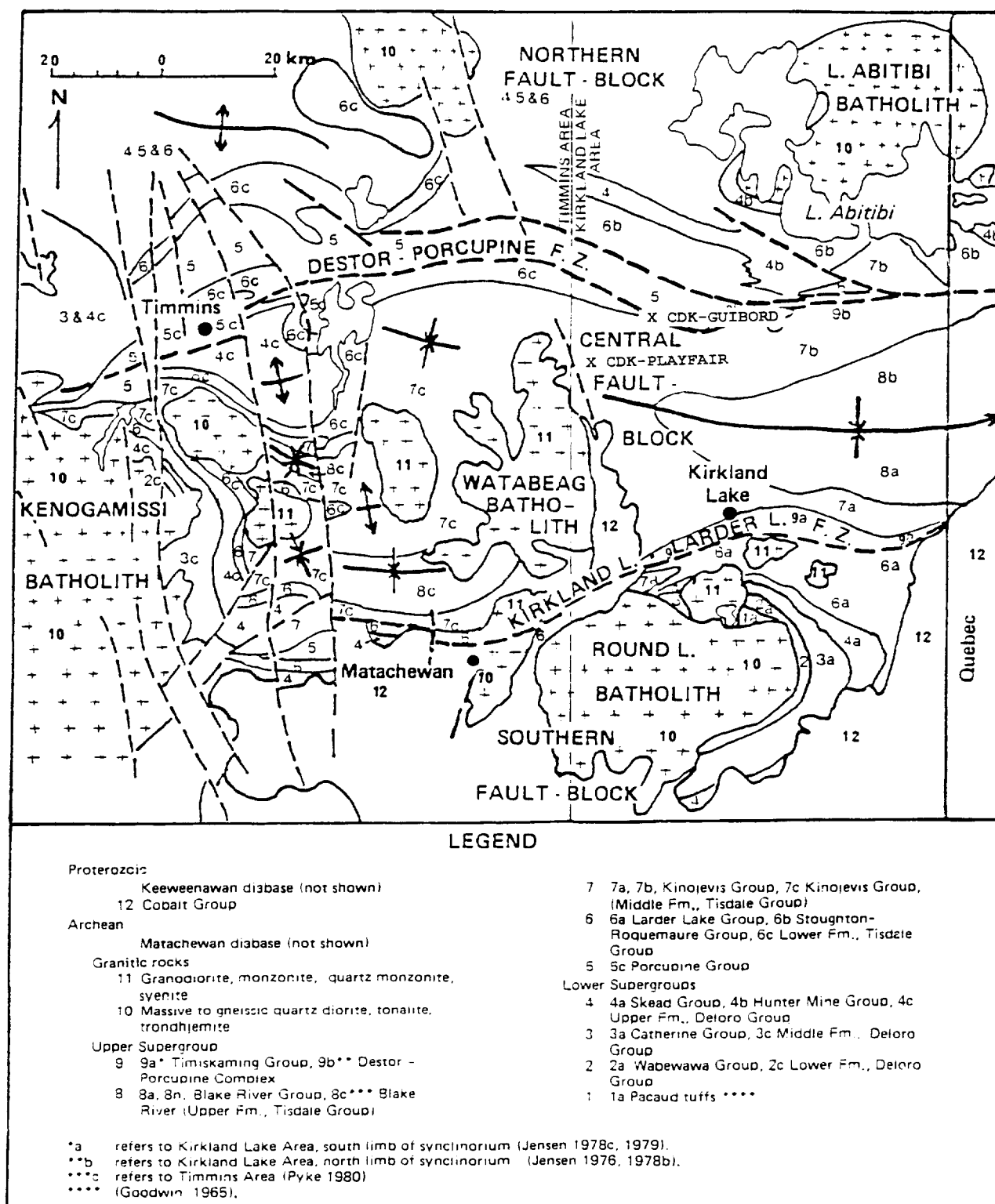


FIGURE 3 - REGIONAL GEOLOGY
 (FROM JENSEN AND LANGFORD, 1985)

Porcupine Syndicate drilling and surface magnetics surveys as no bedrock outcrops are present.

The South Branch of the Destor Porcupine Fault Zone is located approximately 2 kilometres north of the property. The Ross Gold Mine, which produced 609,259 oz Au from 1936-68 is located approximately 600 metres west of the West Block and within the same geological trend.

1996 EXPLORATION PROGRAM

The original OPAP proposal included gridding at 50 metre centres followed by Total Field Magnetics and Phase I.P. Three important additional claims (5 units) were staked in June and it was decided to expand the gridding and geophysical surveys over a portion of these claims as well.

TOTAL FIELD MAGNETICS SURVEY

The total field magnetics survey was completed by B. Madill using a Geometrics G-816 Proton Magnetometer. Readings were taken at 12.5 metre centres with diurnal corrections made using a base station (Line 0N, 0+00) read throughout the day. Grid lines were cut at 50 metre intervals over the west claim (1211778) and at 100 metre centres over east claims 1214398, 1217445. The readings were then contoured at a 25nT interval by this author.

The magnetics over the west claim show two magnetic trends.

Lower flat magnetics north of line 3+00S are interpreted as representing Porcupine Group sediments. Higher magnetics to the south are likely mafic or ultramafic volcanic flows. There does not appear to be any linear magnetic depressions caused by possible faulting.

The west block shows a much more irregular magnetic pattern and interpretation is aided by the South Porcupine Syndicate drilling. A wide band of sediments are interpreted over the northeast portion of claim 1214298 extending southeast onto claim 1217445. The sediments intersected in the drilling do not show a definite magnetic trend, however, the magnetic lows along the baseline at line 3+00S as well on lines 4+00S and 5+00S may be narrow bands of greywacke. The circular magnetic feature on line 5+00S, 0+25E is likely a mafic intrusive. The slightly lower magnetics ($<58,000$ nT) located over the southwest portion of claim 1214398 correlates with altered fragmental volcanics, sediments and porphyry intersected in diamond drilling. The one gold assay reported from hole #13 (0.18 oz/ton over 2.0') would lie within this relative magnetic low close to a massive basalt contact.

INDUCED POLARIZATION SURVEY

A total of 5.1 kilometres of Phase Induced Polarization survey was completed over the two blocks including 1.7 kilometres over the north grid and 3.4 kilometres over the south grid. The field work was completed by R. Belanger Geophysics and the report by G.

Lambert. The survey was completed using a 25 metre dipole configuration and in hindsight, a 50 metre configuration would have been better suited because of high overburden depths. The interpretation is therefore based on the N=4 to N=6 depth. A detailed description of the survey is included in Appendix III in this report.

In general a number of zones of conductivity were detailed, most of which are over the East Block. The highest zones of conductivity are located along the base line on sections 3+00S and 4+00S and are likely caused by graphitic sediments. The weaker anomalies, and in particular the continuous anomaly north of the base line from lines 4+00S to 8+00S also show some correlation with sediments intersected by the South Porcupine Prospecting Syndicate. It should be noted that there are no references to graphitic sediments in the logs.

Anomalies over the West Block are less continuous, however, the strong anomaly located on line 4+00S appears to lie within the volcanics and may represent sulphide mineralization. The other three weaker anomalies appear to lie within the sediments and may represent narrow graphitic horizons.

SUMMARY AND CONCLUSIONS

Ground geophysics over the CDK-Guibord property has identified a number of volcanic/sedimentary contacts which historically represent potential areas of gold mineralization. Previous diamond

drilling, both by Hollinger Gold Mines on the West Block and by the South Porcupine Prospecting Syndicate on the East Block intersected broad zones of alteration with significant though narrow gold mineralization. None of the zones of gold mineralization show a definite geophysical expression, however, it is highly unlikely that all of the core was assayed. A number of I.P. anomalies were detailed and although most of them may be graphitic in origin, there is no reference to graphite in any of the holes. It is therefore recommended that the West Block anomaly located on line 4+00S be tested by diamond drilling as well as the earlier gold mineralization intersected by Hollinger Gold Mines.

At least two diamond drill holes are required to evaluate the I.P. anomalies on the East Block as well as testing the gold intersection in the South Porcupine Prospecting Syndicate hole #13.

Respectfully submitted,

Stewart Carmichael
 Stewart Carmichael, B.Sc. FGAC
 S. J. Carmichael
 FELLOW

APPENDIX I

Certificate of Qualifications

I, Stewart J. Carmichael, of the Town of Kirkland Lake, in the District of Timiskaming, in the Province of Ontario, Canada, do hereby certify that:

1) I am a consulting geologist with address 42 Rand Avenue East, Kirkland Lake, Ont. P2N 1X1.

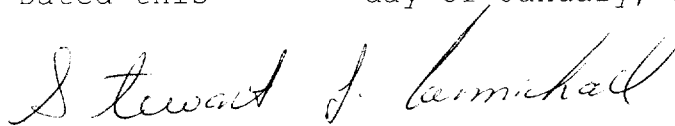
2) I am a graduate of McMaster University, Hamilton, Ontario, having received the degree of Bachelor of Science, Geology from the Faculty of Science in 1982. I have since practised in the field of mineral exploration continuously since graduation.

3) I am a Fellow of the Geological Association of Canada.

4) I hold a direct 50% direct interest in both the CDK-Playfair and CDK-Guibord properties.

5) In addition to my personal knowledge of the area, I have made use of the records of the Ministry of Natural Resources of Ontario in the preparation of this report.

Dated this 29 day of January, 1997



Stewart J. Carmichael, B.Sc., FGAC

Qual. #

APPENDIX II
SOURCES OF INFORMATION

1. Bath, A.C. 1990. Mineral occurrences, deposits, and mines of the Black River-Matheson area; Ontario Geological Survey, Open File Report 5735, 1883p.
2. Jensen, L.S., and Langford, F.F.
1985: Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area, Ontario; Ontario Geological Survey, Miscellaneous Paper 123, 130p.
3. MERQ-OGS
1983: Lithostratigraphic Map of the Abitibi Subprovince; Ontario Geological Survey/Ministere de l'Energie et des Ressources, Quebec; 1:500,000; catalogued as "Map 2484" in Ontario and "DV 83-16" in Quebec.
4. Prest, V.K.
1951: Geology of Guibord Township, Ontario Department of Mines, Vol. LX, Part IX, 1951, Map 1951-6
5. Prest, V.K.
1956: Geology of Hislop Township, Ontario Department of Mines, Vol. LXV, Part 5, 1956, Map 1955-5

Assessment Files Located At The Resident Geologist Office,
Kirkland Lake

KL-3518 - Salo, Larry - Playfair Township
KL-3100 - Weisflock, W., Salo, Larry - Playfair Township
KL-2646 - Temple GML - Playfair Township
KL-2548 - Spar Holdings and Explorations - Playfair Township
KL-2488 - Sherwin Minerals Ltd. - Playfair Township
KL-2544 - South Porcupine Syndicate - Guibord Township

APPENDIX III
STATEMENT OF EXPENDITURES

1) CDK-PLAYFAIR PROJECT

Line Cutting, 11.5 km @ \$250.00/km.....	\$2,874.25
Total Field Magnetics, 11.5 km @ \$100.00/km.....	1,150.00
TOTAL.....	\$4,024.25

2) CDK-GUIBORD Single Claim

Line Cutting, ^{3.63} 6.7 km @ \$250.00/km.....	^{907.50} \$1,675.00
Total Field Magnetics, ^{3.63} 6.7 km @ \$100.00/km.....	363.00
I.P. Survey, 1.7 km @ \$1,000.00/km.....	1,700.00
TOTAL.....	\$4,045.00 2,970.50 MD.

2) CDK-GUIBORD East Block

Line Cutting, ^{5.45} 9.4 km @ \$250.00/km.....	^{1,362.50} \$850.00
Total Field Magnetics, ^{5.45} 9.4 km @ \$100.00/km.....	545.00
I.P. Survey, 3.4 km @ \$1,000.00/km.....	3,400.00
TOTAL.....	\$4,590.00 5,307.50 MD.

APPENDIX IV
REPORT ON INDUCED POLARIZATION SURVEYS
CDK-GUIBORD PROPERTY
BY
GERARD LAMBERT



C D K

C D K GUIBORD PROJECT

Guibord Township, Ont.

N.T.S. 42 A/8

Report on Induced Polarization surveys



42A08NW0023 2.17049 GUIBORD

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Rouyn-Noranda, Québec

January 20, 1997

Gérard Lambert, P.Eng.

Consulting Geophysicist

TABLE OF CONTENTS

Introduction	2
Property description, location, access	2
Description of the I.P. surveys	4
Results and interpretation	6
Conclusion and recommendations	8

Appended:

	<u>Scale</u>
Resistivity / I.P. pseudo-sections	1:2,500
Apparent resistivity contour map with I.P. anomalies superimposed	1:2,500
Polarization (I.P.) contour map with I.P. anomalies superimposed	1:2,500



Introduction

In December 1996, ground geophysical investigations, consisting namely of Induced Polarization (I.P.) surveys, were carried out the CDK-Guibord property, for **C D K group**.

The purpose of these surveys was to provide additional geoscientific information about the underlying lithologies and to map with a better accuracy the distribution of disseminated and stringer sulfides in the bedrock, these sulfides being potentially of economic interest if they are found to carry significant concentrations of base and/or precious metals. Considering the paucity of bedrock exposure and the non-existent I.P. survey coverage from previous work, the present I.P. surveys were also meant to complement the geophysical compilation of the property.

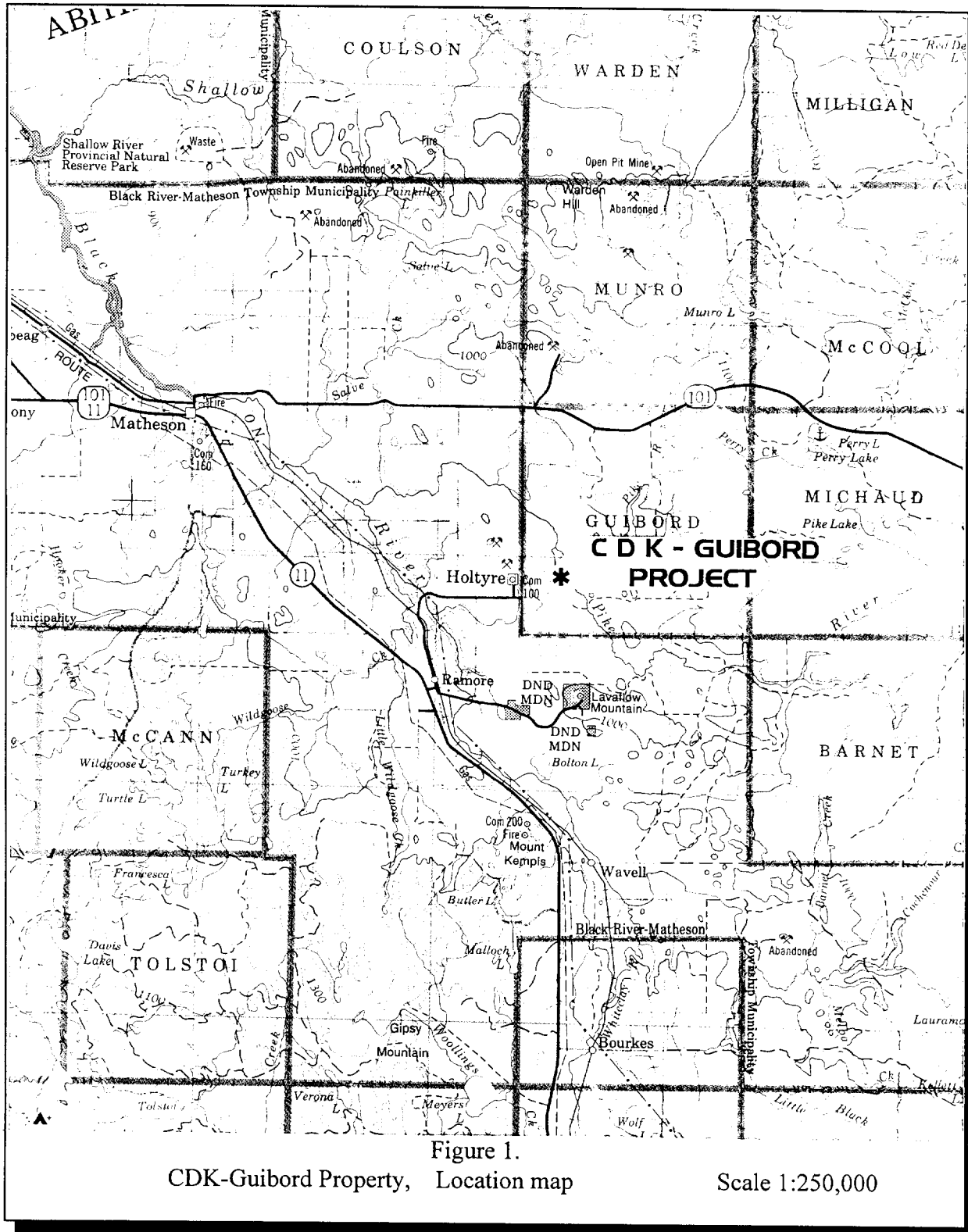
This report describes the work done, discusses the results obtained as well as the interpretation of the data. Recommendations for any future work are presented in the conclusion.

The I.P. survey was carried out by crews of Rémy Bélanger Geophysics, of Rouyn-Noranda, Québec.

Property description, location and access

The **CDK-Guibord** property is located in the southwest quadrant of **Guibord** township, in northeastern Ontario, just 17 km to the southeast of Matheson and 40 km to the NNW of Kirkland Lake (NTS 42 A/8).

The survey area is accessible by vehicle, using secondary roads leading north and east from Holtyre. Please refer to Figure 1., showing a location map of the property at 1:250,000 scale.



The **CDK-Guibord** property consists of two blocks of claims, staked in the southwest part Guibord Twp. Claim numbers are: 1211778 (north grid), ~~1214378~~ and ~~1217445~~ (south grid). A claim map is shown on Figure 2, next page. The geophysical surveys covered claims 1211778 and ~~1214378~~. The plan maps at 1:2,500 scale appended to this report also show the claims and their numbers in addition to the grid lines.

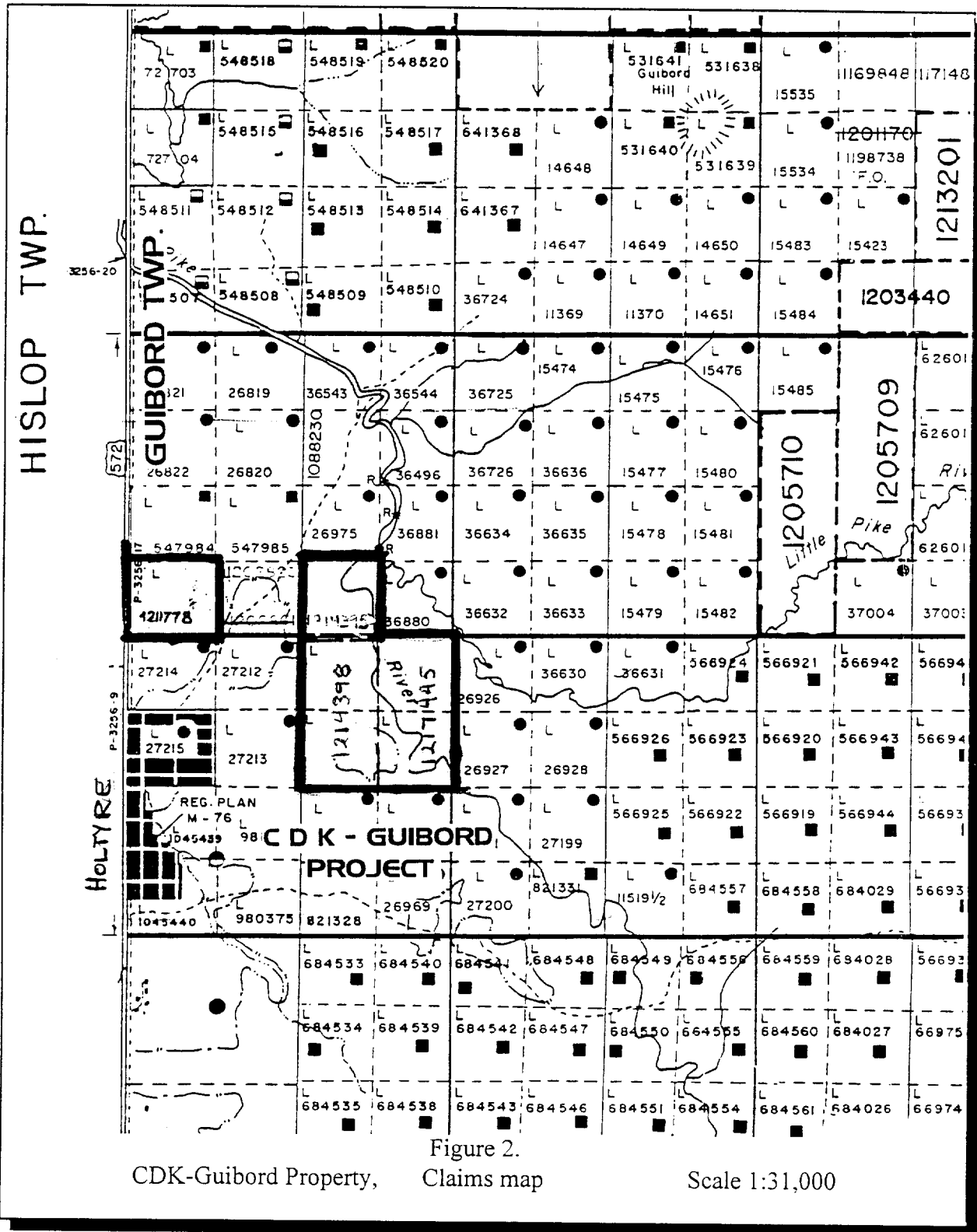
Description of the I.P. surveys

The Induced Polarization survey was carried out on two grids, along previously cut survey lines, oriented at 060° , spaced every 100 meters and chained every 25 meters. Two base lines (B.L. 0+00N), striking at 330° , were used to set off the grids. On the south grid, the survey lines go from L3+00mS to L8+00mS. , whereas on the smaller north grid, the survey lines go from L1+00mS to L4+00mS.

The **I.P. survey** was conducted using a dipole-dipole electrode configuration. The dipole dimension was 25 meters and successive separations at multiples of $n=1$, $n=2$, $n=3$, $n=4$, $n=5$ and $n=6$ times the dipole dimensions were used, in order to investigate at depth.

A total of approximately **5.1 line-km** of I.P. data was thus gathered by Rémy Bélanger of Rouyn-Noranda.

The I.P. equipment consisted of 1°) a **Phoenix IPT-1** transmitter operating at 1.0 Hz, powered by a 1 kW MG-1 motor generator. The phase angle (in milliradians) between the transmitted current and the received voltage was measured by 2°) a **Phoenix Turbo V-5** phase I.P. receiver, measuring also the apparent resistivity of the earth at each "n". The phase angle is a direct measure of the polarization of the underlying earth.



The results of the I.P. surveys are presented in the appendix, namely in the form of pseudo-sections of the apparent resistivities and the measured phase angle, at the scale 1:2,500 and also on plan maps at 1:2,500, showing the **contours of the apparent resistivity** at $n=4$ and the **contours of the polarization** at $n=4$, both with the interpretation of the I.P. anomalies superimposed, using symbols whose meaning is explained in the accompanying legend.

Results and interpretation

The Induced Polarization method is probably the best geophysical prospecting tool when investigating for base or precious metals in geological environments such as the CDK-Guibord property area. The I.P. technique is capable of mapping most types of metallic sulfides, even when they do not conduct, which is often the case with structure-hosted gold mineralization associated with disseminated and stringer sulfides in fractures. Furthermore, the I.P. technique can also discriminate between "poor" conductors associated with electrolytic conductivity such as porous shear zones and overburden depressions, and "poor" conductors caused by low-conductivity metallic mineralization, such as stringer sulfides. It is occasionally hampered by conductive cover such as lacustrine clays, which is the case in the present survey.

In this particular case, a 25-meter dipole dimension was chosen because of its normally better lateral resolution and its ability to delineate narrow mineralized zones, often important in gold exploration. The overburden layer is however quite deep and conductive, within the survey area and, as will be seen, the I.P. survey has barely penetrated this layer and barely reached bedrock. In retrospect, a 50-meter dipole configuration would have provided better penetration.

· Resistivity

The resistivity pattern, as contoured on the 1:2,500 plan map (resistivity at $n=4$) and as shown on the pseudo-sections, provides a faithful image of the overburden's cover and of the bedrock surface's relief. About half of the survey area is characterized by low apparent resistivities (< 150 ohm-meters), indicating that thick and conductive overburden conditions are prevailing over these areas. Overburden thicknesses of up to 30 meters are expected in these areas, particularly in the south grid area. That is the main reason why we chose to display the $N=4$ data on the plan maps, as very little bedrock contribution is observed in the $n=1$ to $n=3$ data.

The north grid has less overburden, probably 10 to 20 meters and there may even be some bedrock outcrop near the east end of line 2+00S, owing to higher resistivities in that area. It would be advisable to visit this high resistivity zone in the field, as there is a slight chance that new bedrock outcrops will be discovered.

· Polarization (I.P.)

The polarization measurements show the presence of four anomalous I.P. trends, and some isolated I.P. responses. Referring to the I.P. pseudo-sections and the Phase I.P. contour map and its accompanying legend, the I.P. anomalies were classified according to their "strength" (i.e. the probable "massiveness" of the causative metallic material) and their definition (a well-defined I.P. anomaly is one which displays a clear, unambiguous triangular shape on a pseudo-section), as well as according to the behavior of the apparent resistivity. Conductive, semi-massive and massive metallic mineralization (massive sulfides, graphite) will typically cause a **decrease** in the resistivity in addition to a strong I.P. anomaly.

The symbols used in the interpretation of the results are explained on the compilation maps and on the pseudo-sections.

The most significant I.P. responses are located on the south grid, on lines 3+00S and 4+00S. There are two “strong” I.P. responses with coincident resistivity decrease, most likely caused by conductive graphitic beds (with possibly some pyrrhotite) at 30 to 40 meters depth, probably in sediments. These anomalous trends strike at 135°.

There are two other anomaly trends on the south grid, characterized by not-so-strong I.P. responses and less prominent resistivity decreases. These anomalies stand a chance of being due to stringer sulfides or disseminated sulfides in the bedrock, at a depth of 40 to 50 meters. A detail I.P. survey using 50m dipoles would however be necessary before attempting to drill-test these anomalies.

Only one I.P. anomaly is worth mentioning on the north grid, it is situated at 0+75E on line 2+00S. It is probably due to stringer sulfides at a depth of less than 20 meters.

Conclusion and recommendations

The Induced Polarization surveys which were recently completed on the **CDK-Guibord** property, for **C D K group** have successfully defined four viable I.P. anomaly trends caused by metallic material in the bedrock. Depending on the knowledge of the property’s geology, some of these anomalies may be written off as being due to known graphitic horizons in sedimentary sequences. Analysing the ground magnetic map will help on that matter.

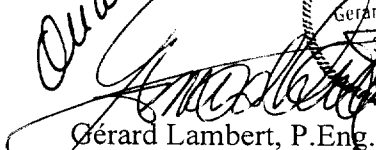
It is difficult, from a geophysical point of view alone, to rate the I.P. anomalies in terms of their economic potential, especially when one is exploring for gold. But it is highly probable

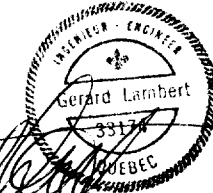
that the "strongest" I.P. anomalies (particularly those identified with solid black and with thick-walled squares on the maps) will be caused by semi-massive *metallic* mineralization such as graphite or pyrite (with possibly accessory pyrrhotite or sphalerite) in the bedrock, at depths of no more than 50 meters below ground surface.

At any rate, it is recommended to eventually find the cause of all the I.P. anomalies and they should be drill-tested at the -100m vertical level. The causative sources are probably sub-vertical, so the direction of drilling is not critical. From a geophysical standpoint, all the I.P. responses certainly deserve further investigation by means of some detail work using larger dipoles (50m would be fine) in order to confirm the validity of their signature.

The choice of drilling priorities will however require some input from other sources of geoscientific information, such as compilations of past work, presence of nearby showings and mineralized intersections, as well as an analysis of the magnetic map in conjunction with a regional geological compilation.

Rouyn-Noranda, Québec
January 20, 1997

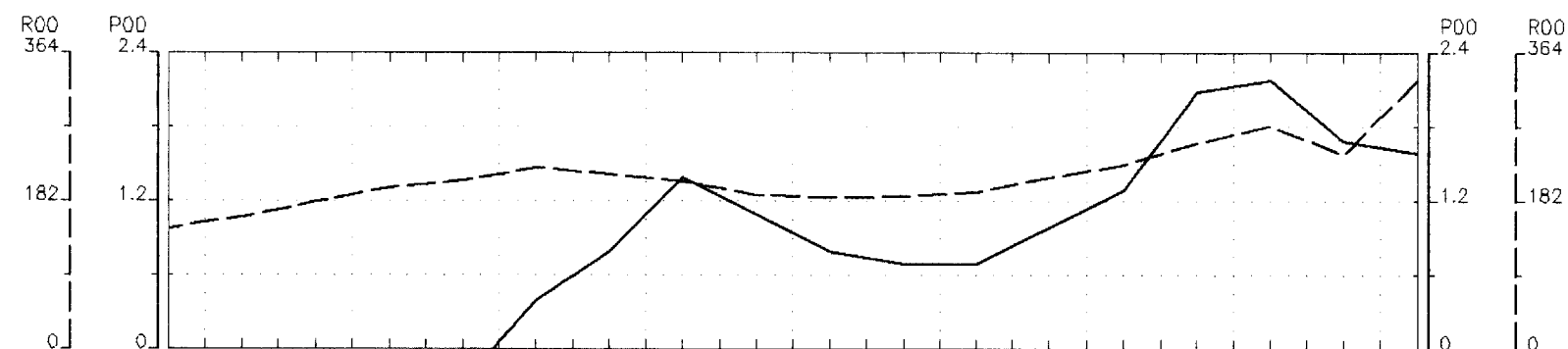
Qual. #

Gérard Lambert, P.Eng.
Consulting Geophysicist



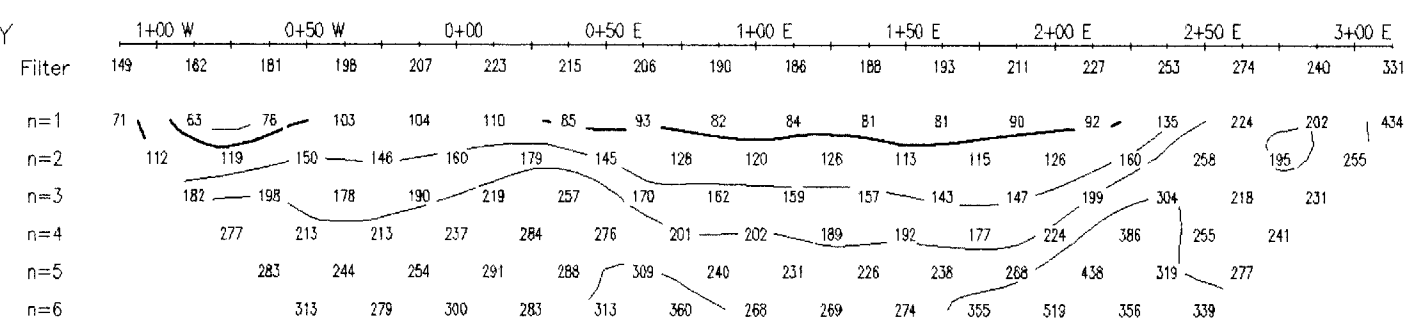
C D K

CDK-Guibord Project, I.P. surveys

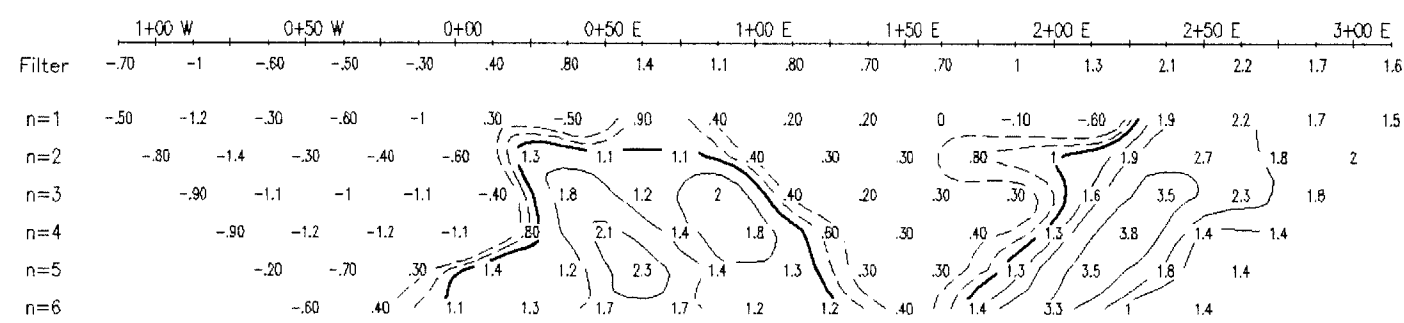
I.P. PSEUDO-SECTIONS, NORTH GRID



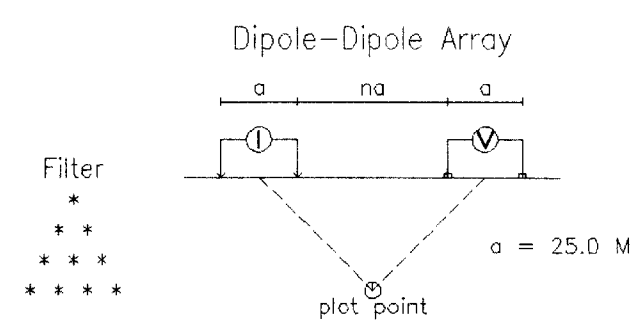
APPARENT RESISTIVITY
OHM-METERS



PHASE
(mRadians)



Line 200 S



Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- ▣ Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

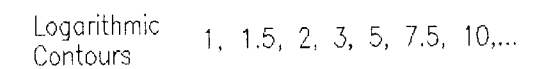
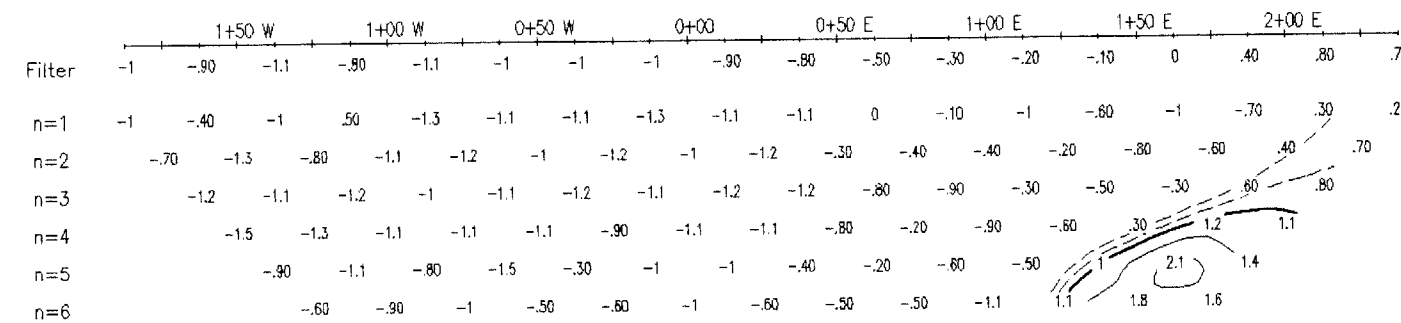
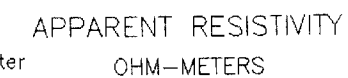
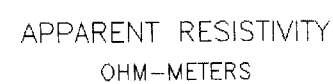
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25 0 25 50 75 100 125
(metres)

CDK

INDUCED POLARIZATION SURVEY
CDK GUIBORD PROJECT
GUIBORD TOWNSHIP - HOLTYRE - ONTARIO

Date: 96/12/31
Interpretation: GERARD LAMBERT P.ENG.

REMY BELANGER (GEOPHYSICAL CONTRACTOR) .V-5 PHOENIX RX



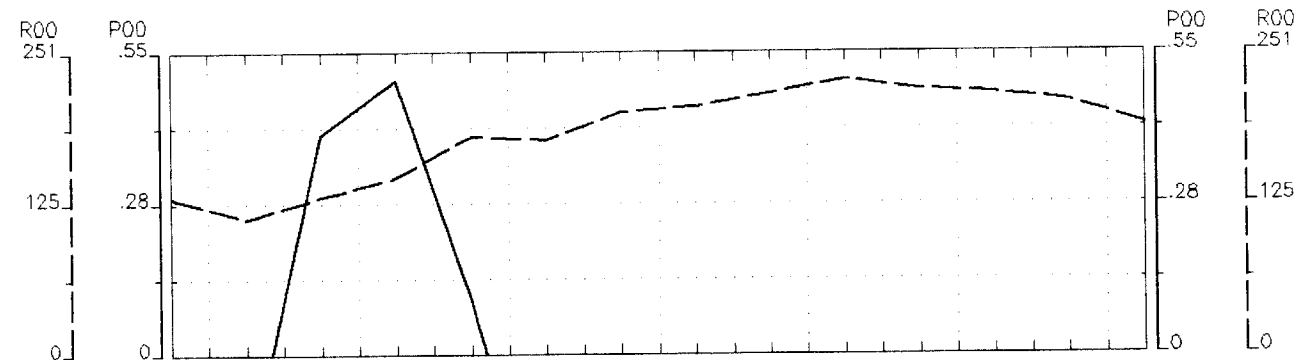
- Strong increase in polarization accompanied by marked decrease in resistivity.
- ▣ Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

C D K

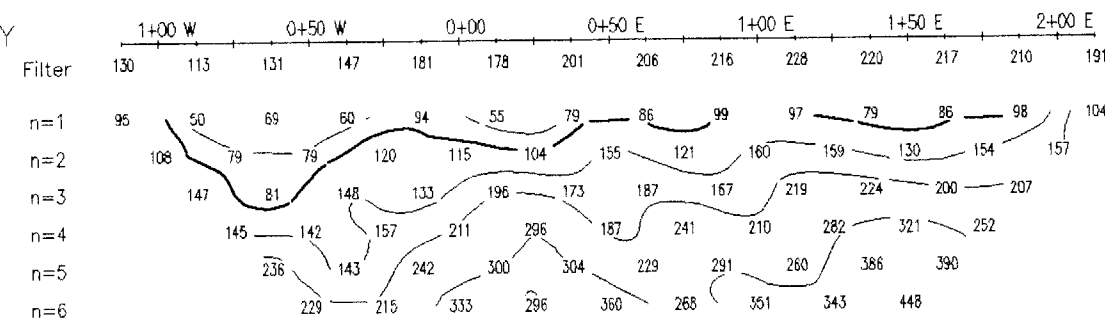
INDUCED POLARIZATION SURVEY
CDK GUIBORD PROJECT
GUIBORD TOWNSHIP — HOLTYRE — ONTARIO

Date: 96/12/31
Interpretation: GERARD LAMBERT P.ENG.

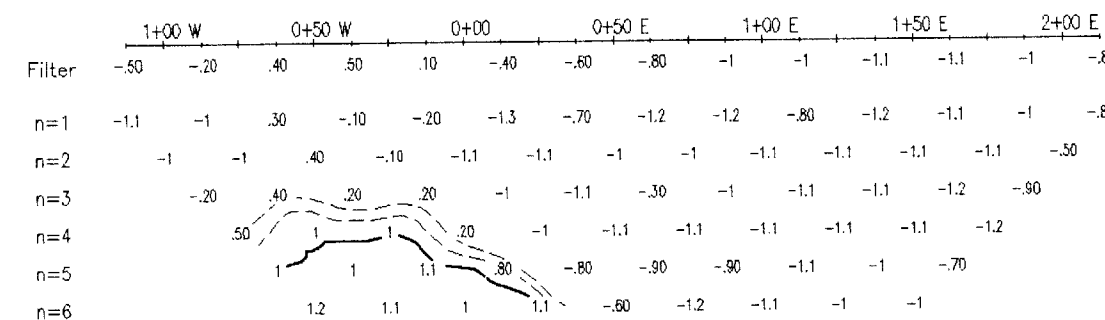
REMY BELANGER (GEOPHYSICAL CONTRACTOR) V-5 PHOENIX RX



APPARENT RESISTIVITY
OHM-METERS



PHASE
(mRadians)



APPARENT RESISTIVITY
OHM-METERS

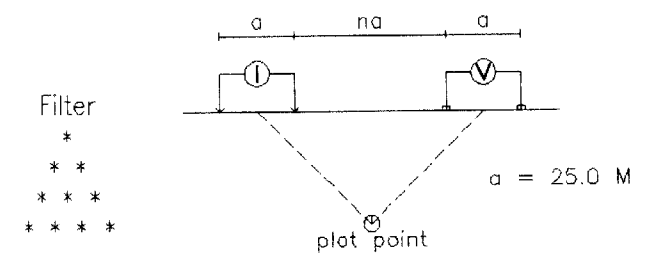
Filter
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n=3
n=4
n=5
n=6

PHASE
(mRadians)

Filter
n=1
n=2
n=3
n=4
n=5
n=6

Line 400 S

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

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- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:2500
25 0 25 50 75 100 125
(metres)

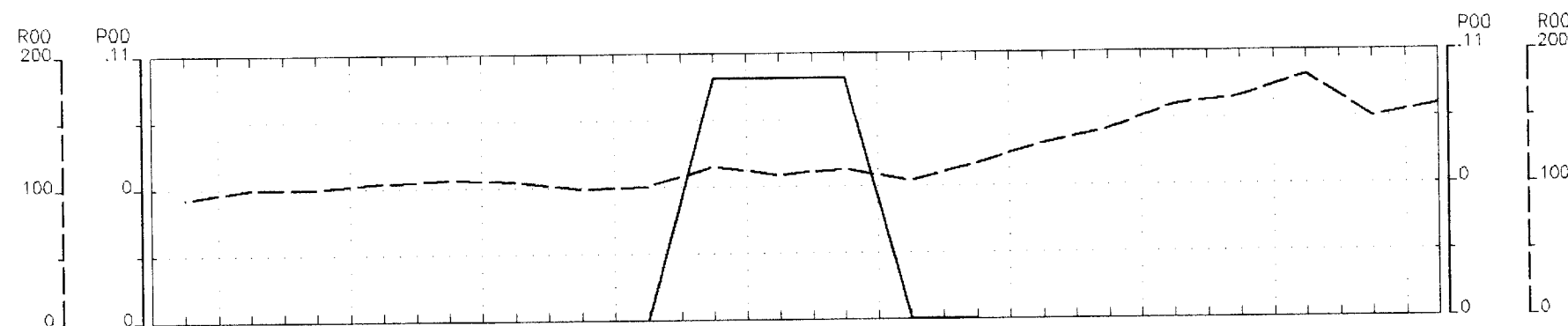
CDK

INDUCED POLARIZATION SURVEY
CDK GUIBORD PROJECT
GUIBORD TOWNSHIP — HOLTYRE — ONTARIO

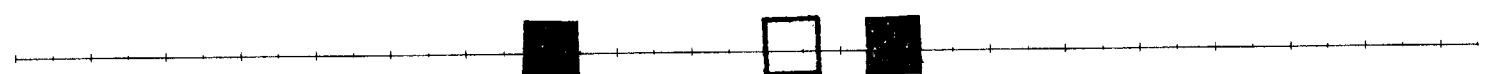
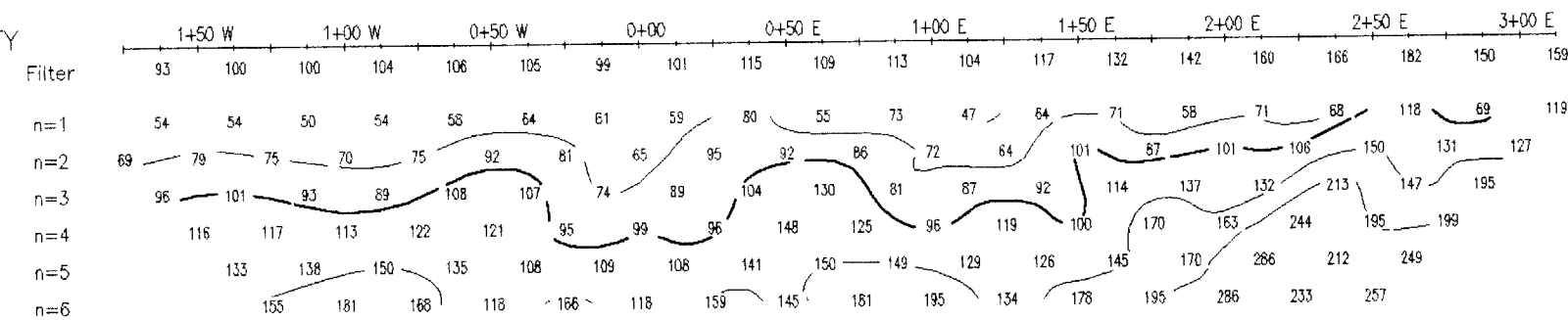
Date: 96/12/31
Interpretation: GERARD LAMBERT P.ENG.

REMY BELANGER (GEOPHYSICAL CONTRACTOR) V-5 PHOENIX RX

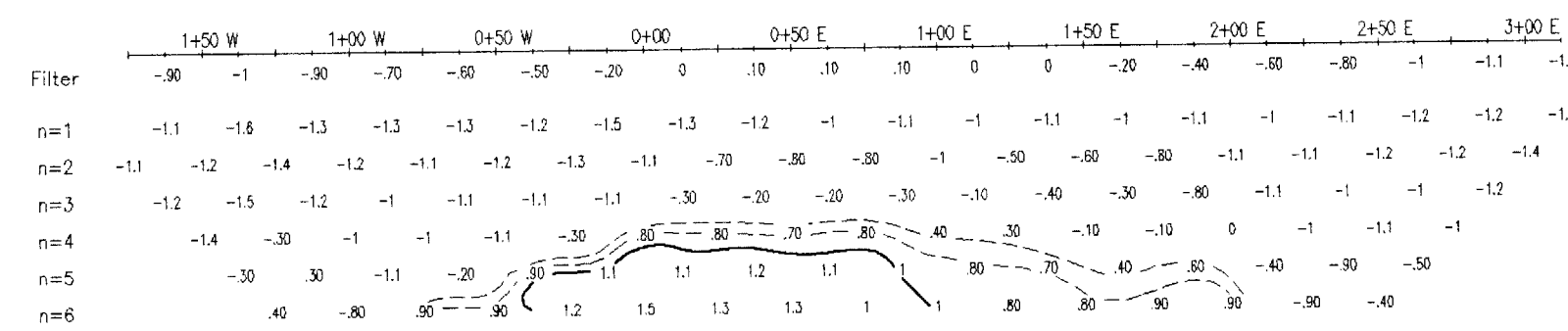
I.P. PSEUDO-SECTIONS, SOUTH GRID



APPARENT RESISTIVITY
OHM-METERS



PHASE
(mRadians)



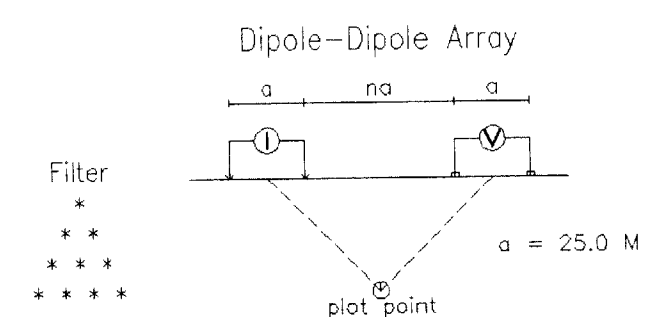
APPARENT RESISTIVITY
OHM-METERS

Filter
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n=2
n=3
n=4
n=5
n=6

PHASE
(mRadians)

Filter
n=1
n=2
n=3
n=4
n=5
n=6

Line 400 S



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

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- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

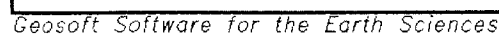
Scale 1:2500
25 0 25 50 75 100 125 (metres)

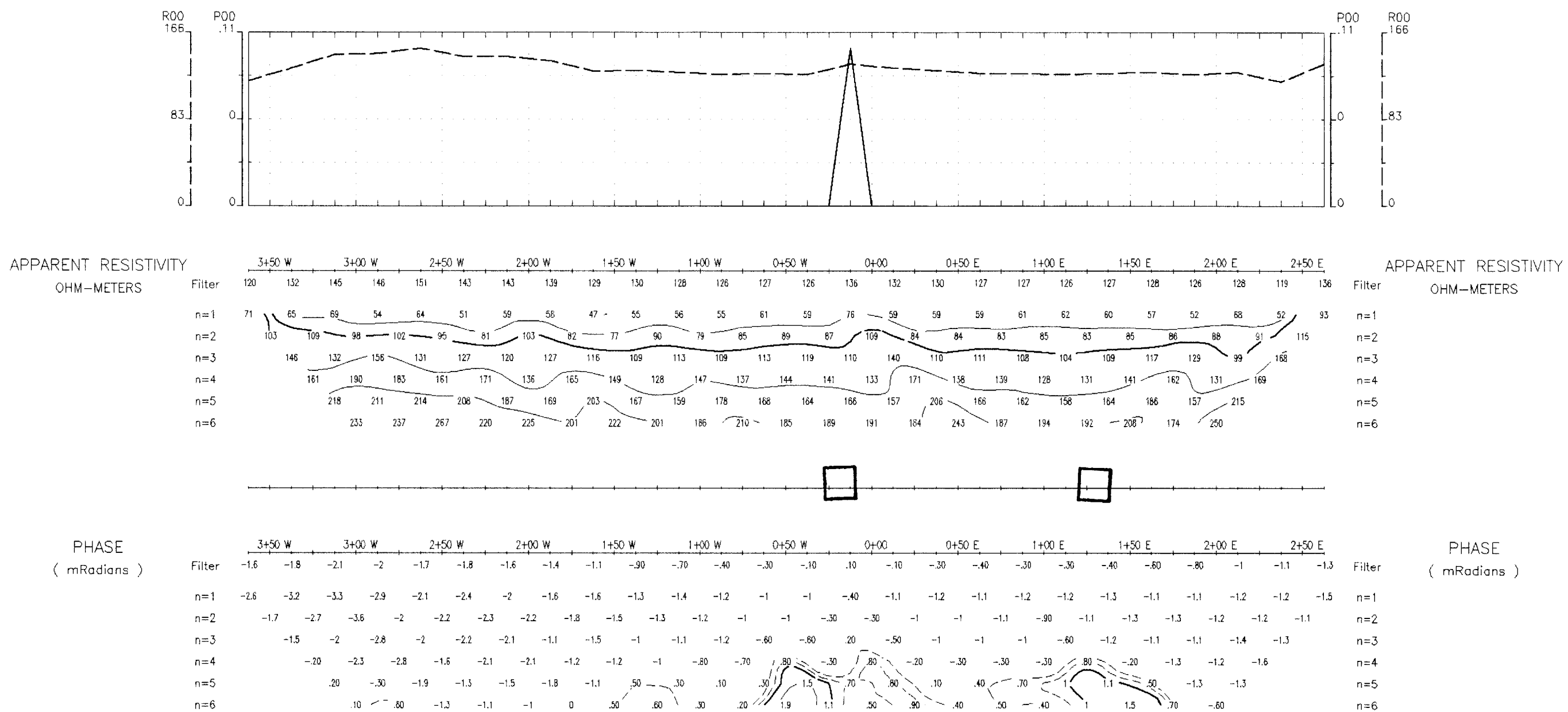
CDK

INDUCED POLARIZATION SURVEY
CDK GUIBORD PROJECT
GUIBORD TOWNSHIP — HOLTYRE — ONTARIO

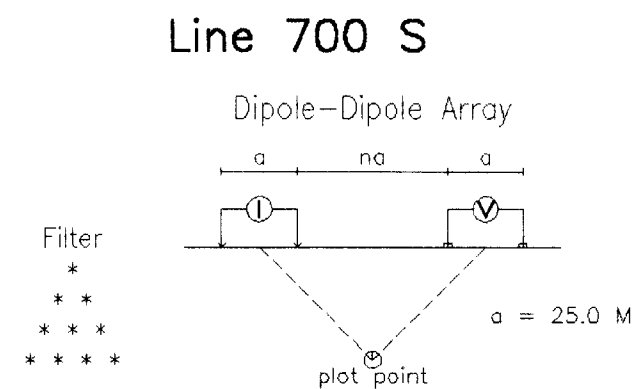
Date: 97/01/02
Interpretation: GERARD LAMBERT P.ENG.

REMY BELANGER (GEOPHYSICAL CONTRACTOR) V-5 PHOENIX RX





Geosoft Software for the Earth Sciences

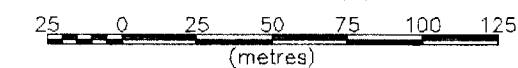


Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

INTERPRETATION

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- ▣ Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:2500



C D K

INDUCED POLARIZATION SURVEY
CDK GUIBORD PROJECT
GUIBORD TOWNSHIP — HOLTYRE — ONTARIO

Date: 96/12/30
Interpretation: GERARD LAMBERT P.ENG.

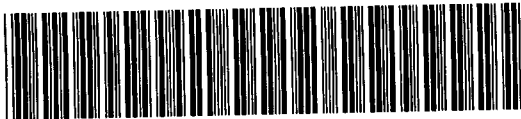
REMY BELANGER (GEOPHYSICAL CONTRACTOR) .V-5 PHOENIX RX

Declaration of Assessment Work
Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

W 9780-00089
Transaction Number (office use)
Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information must be accurate and correspond with the mining land holder. Questions about this form should be directed to the Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey La



42A08NW0023 2.17049 GUIBORD

900

2.17049
claim, use form 0240.

Instructions

1. Recorded holder(s) (Attach a list if necessary)

Name	L.M. DYMENT } JOINT TENANTS J.A. KIDSTON }	Client Number	128504
Address	Box 66	Telephone Number	705-642-3062
	SWASTIKA, ONT POK ITO	Fax Number	
Name	S CARMICHAEL	Client Number	115973
Address	42 RAND AVE	Telephone Number	705-567-7287
	KIRKLAND LAKE, ONT P2N 1X1	Fax Number	

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☒ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☐ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type	LINECUTTING - MAGNETOMETER SURVEY		Office Use
Dates Work Performed	From	To	Commodity
	6 Day 11 Month 96 Year	16 Day 1 Month 97 Year	Total \$ Value of Work Claimed 4824.00
Global Positioning System Data (if available)	Township/Area	NTS Reference	
	PLAYFAIR		Mining Division Kirkland Lake
	M or G-Plan Number	Resident Geologist District	Kirkland Lake
	M-381		

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assessing work;
- include two copies of your technical report.

RECEIVED

FEB 12 1997

3. Person or companies who prepared the technical report (Attach a list if necessary)

MINING LANDS BRANCH

Name	S CARMICHAEL	Telephone Number	705-567-7287
Address	42 RAND AVE, KIRKLAND LAKE	Fax Number	
Name	B.H. MADILL GEOTECHNICAL SERVICES	Telephone Number	705-567-6137
Address	142 CARTER AVE KIRKLAND LAKE	Fax Number	
Name		Telephone Number	RECEIVED
Address		Fax Number	KIRKLAND LAKE MINING DIVISION

FEB 7 1997

1253.

4. Certification by Recorded Holder or Agent

I, L. MIKE DYMENT (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	Date
	FEB 5/97
Agent's Address	Telephone Number
Box 66 SWASTIKA, ONT. POK ITO	705-642-3062
	Fax Number

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous to the mining land where work was performed, at the time work was performed. A map showing the contour must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value to be distributed at a future date.
eg	TB 7827	16 ha	\$26, 825	N/A	\$24,000	\$2,825
eg	1234567	12	\$24,000	\$24,000	0	0
eg	1234568	2	\$ 8, 892	\$ 4,000	0	\$4,892
1	1211867	6	4824	4824	2.17049	
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Column Totals			4824	4824	—	—

I, _____, do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing

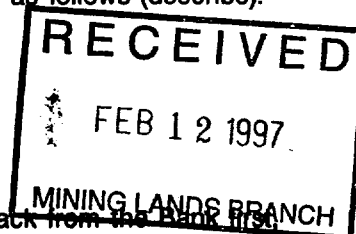
Date

FEB 5/97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☒ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):



Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first followed by option number 2 if necessary.

For Office Use Only

Received Stamp

RECEIVED
LARDER LAKE
MINING DIVISION

FEB 1 1997

1253

Deemed Approved Date

97 May 8/97

Date Notification Sent

Date Approved

Total Value of Credit Approved

Approved for Recording by Mining Recorder (Signature)

[Signature]

Statement of Costs for Assessment Credit

Transaction Number (office use)

Information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond to the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
LINECUTTING	11.5 KM	250	2874.
MAG SURVEY	11.5 KM	100	1150.
SUPERVISION	2 DAYS	250	500.
MAPS & REPORTS	10 HRS	30	300.
		2.17049	
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
Total Value of Assessment Work			4824.

Calculations of Filing Discounts:

- Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
- If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK $\times 0.50 =$ Total \$ value of worked claim

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, L. MIKE DYMENT, do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as RECORDED HOLDER. I am authorized to make this certification.

RECEIVED
FEB 12 1997
MINING LANDS BRANCH

Signature [Signature] Date FEB 5/97

Declaration of Assessment Work
Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)

Assessment Files Research Imaging

Information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.17049

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name	L. MIKE DYMENT } JOINT TENANTS J. A. KIDSTON }	Client Number	128504
Address	Box 66 SWASTIKA, ONT POK ITO	Telephone Number	642-3062
		Fax Number	.
Name	S. CARMICHAEL	Client Number	115973
Address	42 RAND AVE KIRKLAND LAKE ONT P2N 1X1	Telephone Number	567-7287
		Fax Number	

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☒ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☐ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type	Office Use	
LINECUTTING, MAGNETOMETER, I.P.	Commodity	
Dates Work Performed From 1 Day 4 Month 96 Year To 5 Day 1 Month 97 Year	Total \$ Value of Work Claimed	RECEIVED
Global Positioning System Data (if available)	NTS Reference	FEB 12 1997
Township/Area	Mining Division	Larder Lake
M or G-Plan Number	Resident Geologist District	MINING LANDS BRANCH
GUIBORD		Kirkland Lake
M352		

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	S. J. CARMICHAEL	Telephone Number	705-567-7287
Address	42. RAND AVE. KIRKLAND LAKE	Fax Number	
Name	GERARD LAMBERT	Telephone Number	819-762-3182
Address	144 RUE GEORGE . C.P. 2355	Fax Number	
Name	ROYAN-NORANDA J9X 5A9	Telephone Number	RECEIVED
Address		Fax Number	LARDER LAKE MINING DIVISION

4. Certification by Recorded Holder or Agent

I, L MIKE DYMENT (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent	Date
	FEB 5/97
Agent's Address	Telephone Number
Box 66 SWASTIKA, ONT POK ITO	705-642-3062
	Fax Number

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous, the mining land where work was performed, at the time work was performed. A map showing the contiguous must accompany this form.

Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.		Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value to be distributed at a future date.
eg	TB 7827	16 ha	\$26, 825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$ 8, 892	\$ 4,000	0	\$4,892
1	1214395	1	—	878		
2	1214398	2	4259	2400	1859	
3	1217445	2	1419	2400		
4	1211778	1	3340	2000	2,170	49340
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
Column Totals			9018	7678	1859	1340

I, L. MIKE DYMENT (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing [Signature] Date FEB 7/97

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

~~1214398~~ 1217445 ONLY.
NO. 1214395

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only Received Stamp MINING DIVISION FEB 7 1997 1253	Deemed Approved Date 97	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	
	[Signature]	

Bank Value
to be distributed
at a future date

825

ious
ario

Ministry of
Northern Development
and Mines

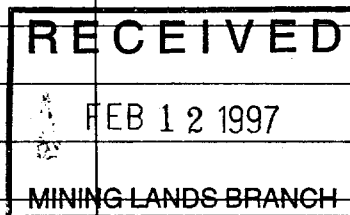
Statement of Costs
for Assessment Credit

Transaction Number (office use)

All information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

2.17049

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
SUPERVISION SINGLE CLAIM	1 day	250.00	250.00
SUPERVISION EAST GRP	1 day	250.00	250.00
Reports & Maps	4 HRS	30.00	120.00
	4 HRS	30.00	120.00
LINECUTTING SINGLE CLAIM	3.63 KM.	907.50	907.50
LINECUTTING EAST GRP	5.45 KM.	1362.50	1362.50
MAG SINGLE	3.63 KM.	100.00	363.00
MAG EAST GRP	5.45 KM.	100.00	545.00
I.P. SINGLE CLAIM	1.7 KM.	1000.00	1,700.00
I.P. EAST GRP	3.4 K.M.	1000.00	3,400.00
Associated Costs (e.g. supplies, mobilization and demobilization).			
Transportation Costs			
Food and Lodging Costs			
Total Value of Assessment Work			9018



Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK $\times 0.50 =$ Total \$ value of worked claimed.

Note:

- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, L. MIKE DYMENT (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as RECORDED HOLDER I am authorized (recorded holder, agent, or state company position with signing authority) to make this certification.

Signature [Signature] Date FEB 5/97

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

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

April 3, 1997

Roy Spooner
Mining Recorder
4 Government Road East
Kirkland Lake, ON
P2N 1A2

Dear Sir or Madam:

Submission Number: 2.17049

Status

Subject: Transaction Number(s):	W9780.00089	Deemed Approval
	W9780.00090	Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

NOTE: This correspondence may affect the status of your mining lands. Please contact the Mining Recorder to determine the available options and the status of your claims.

If you have any questions regarding this correspondence, please contact Bruce Gates by e-mail at gates_b@torv05.ndm.gov.on.ca or by telephone at (705) 670-5856.

Yours sincerely,



ORIGINAL SIGNED BY
Ron C. Gashinski
Senior Manager, Mining Lands Section
Mines and Minerals Division

Work Report Assessment Results

Submission Number: 2.17049

Date Correspondence Sent: April 03, 1997

Assessor: Bruce Gates

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9780.00089	1211867	PLAYFAIR	Deemed Approval	April 01, 1997

Section:

14 Geophysical MAG

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9780.00090	1214398	GUIBORD	Deemed Approval	April 01, 1997

Section:

14 Geophysical IP

14 Geophysical MAG

Correspondence to:

Mining Recorder
Kirkland Lake, ON

Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

LESLIE MICHAEL DYMENT
Swastika, Ontario

STEWART JAMES CARMICHAEL
KIRKLAND LAKE, ONTARIO

REFERENCES

AIEAS WITHDRAWN FROM DISPOSITION

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

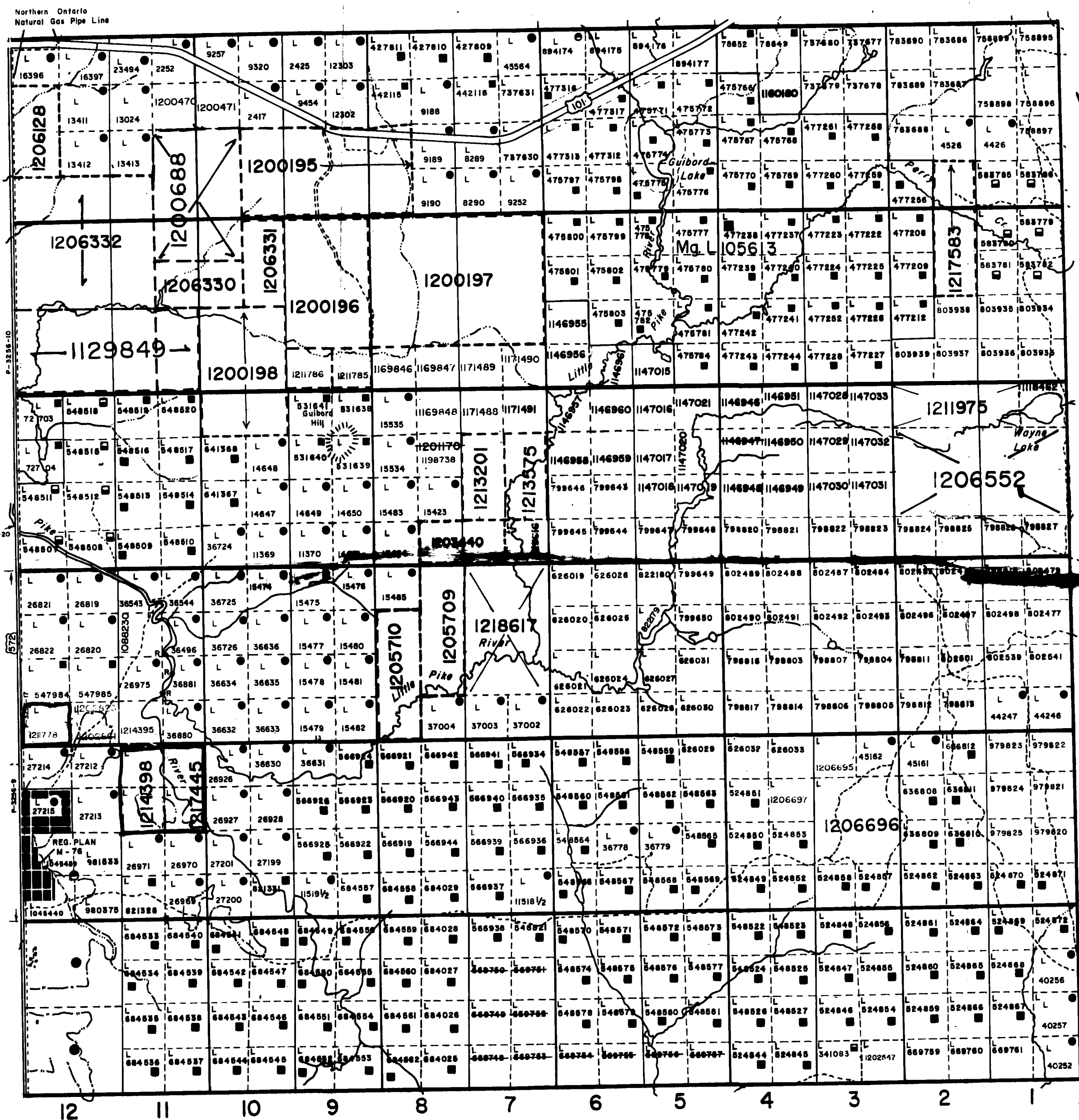
Description	Order No.	Date	Disposition	File
(R) W-L-57/95	JULY 14, 1995	M&S	WITHDRAWN	
(R) O-L-37/95NER	JAN. 2/96	M&S		

NOTES

40(FOOT (APPROX. 122 METER) SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. NO GUARANTEE IS MADE AS TO THE ACCURACY OF THE INFORMATION. CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION OF THE STATUS OF THE LANDS SHOWN HEREON.

MUNRO TWP.



COOK TWP.

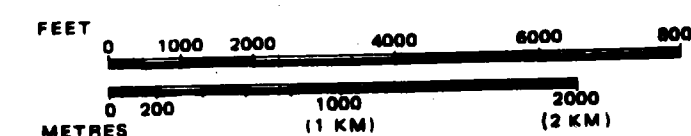
LEGEND

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



RECEIVED
FEB 12 1997
MINING LANDS BRANCH

DATE OF ISSUE

FEB 10 1997

GUIBORD

M.N.R. ADMINISTRATIVE DISTRICT

COCHRANE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

COCHRANE



Ministry of
Natural
Resources

Ministry of
Northern Development
and Mines

Date MAY 1990

Number

CIRCULATED
NOV. 23, 1993.

M.F.C.

G-3642

ARCHIVED DEC. 19/95



REFERENCES

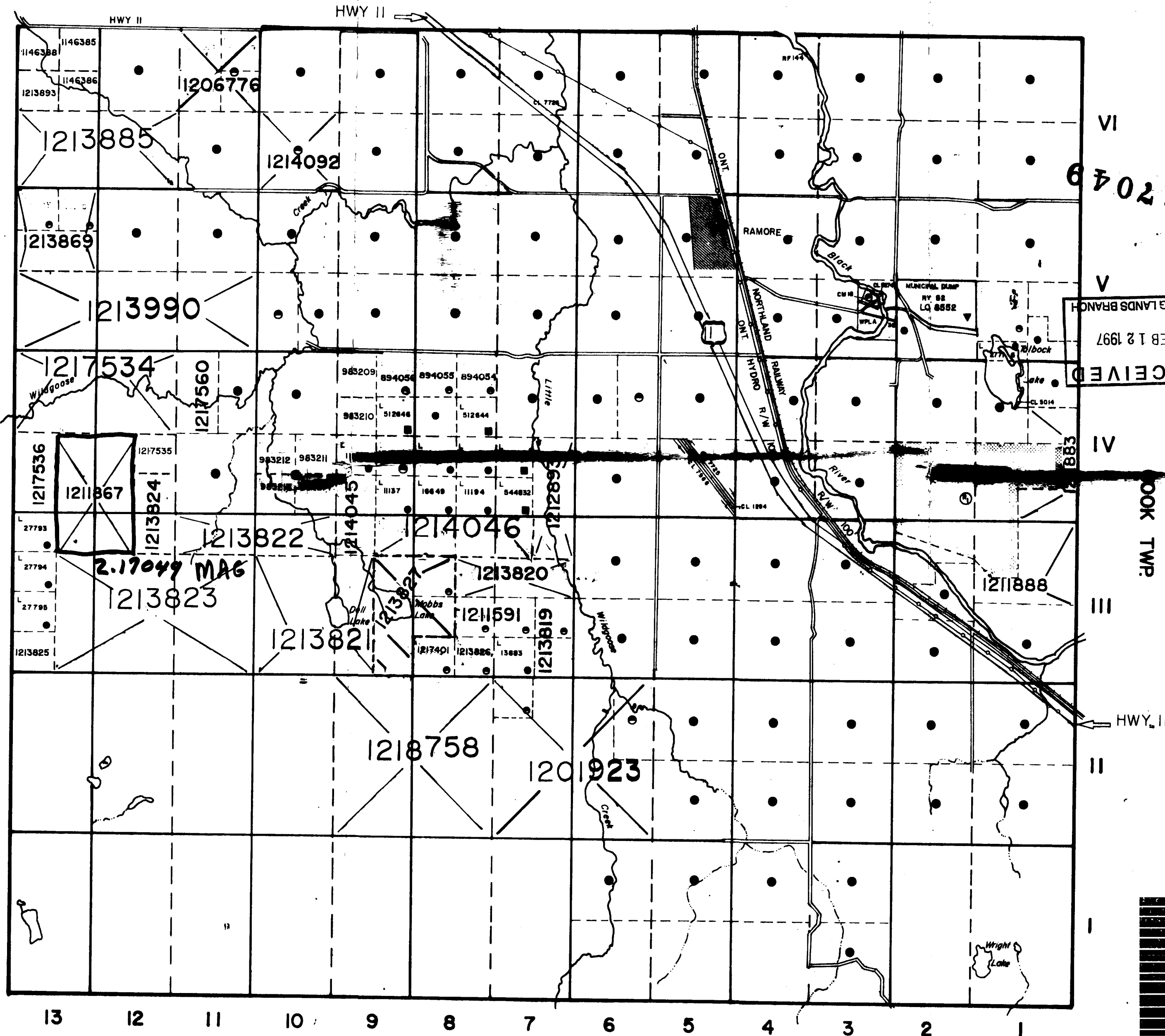
EAS WITHDRAWN FROM DISPOSITION

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

Disposition	Ord. No.	Date	Disposition	File
16/80	NR. 28/86	18/04/86	SURFACE & MINING RIGHTS WITHDRAWN	

HISLOP TWP.

McCANN TWP.



BLACK TWP.

IN SERVICE AUG 29/96

LEGEND

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

DISPOSITION OF CROWN LANDS

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

SCALE: 1 INCH = 40 CHAINS
 FEET 0 500 1000 2000 4000 8000
 METRES 0 200 400 600 800 1 KM 2 KM

DATE OF ISSUE

FEB 10 1997

LARDER LAKE

MINING RECOVERER'S OFFICE

TOWNSHIP

PLAYFAIR

DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

ONTARIO

MINISTRY OF NATURAL RESOURCE

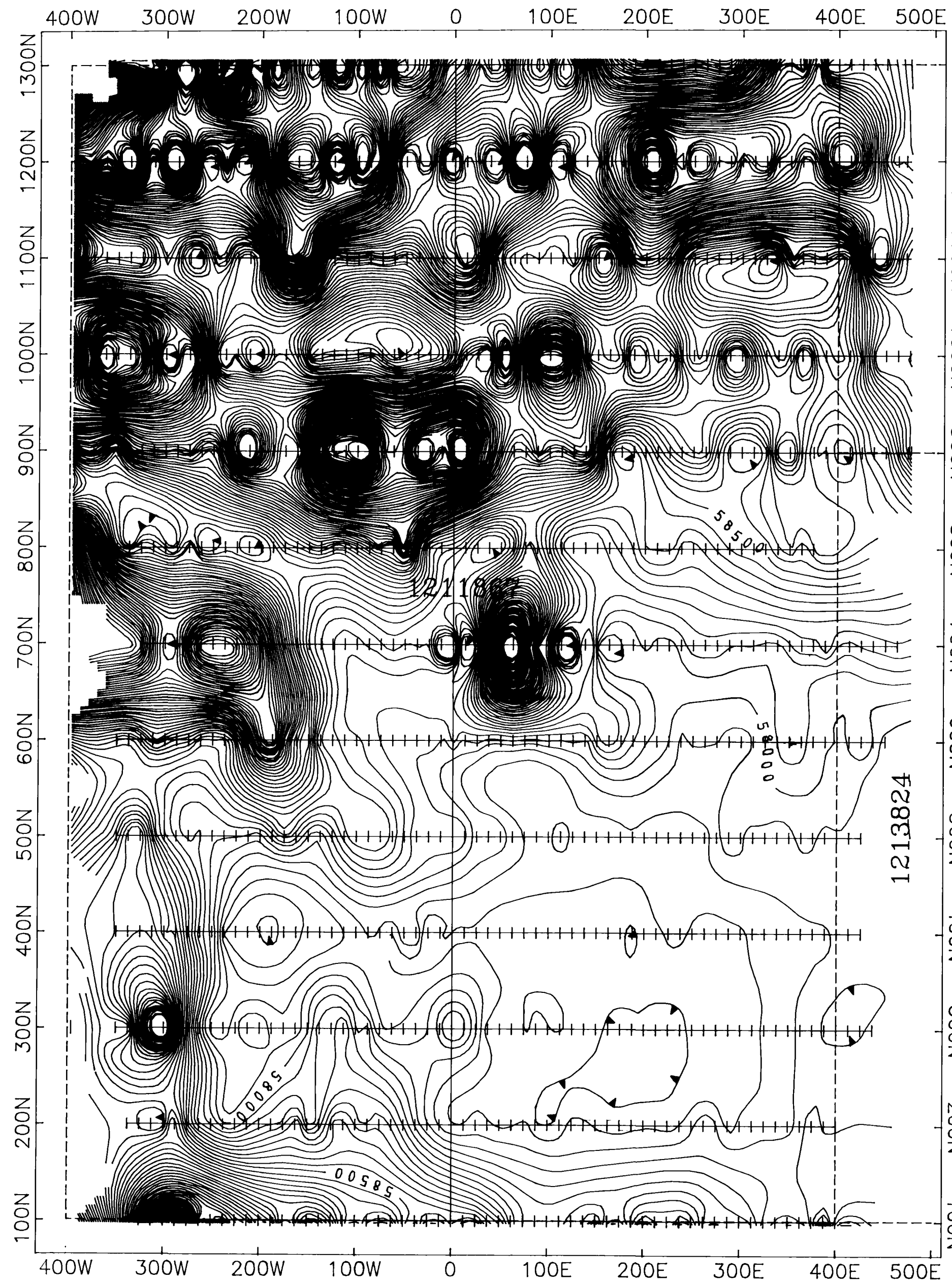
SURVEYS AND MAPPING BRANCH

Date

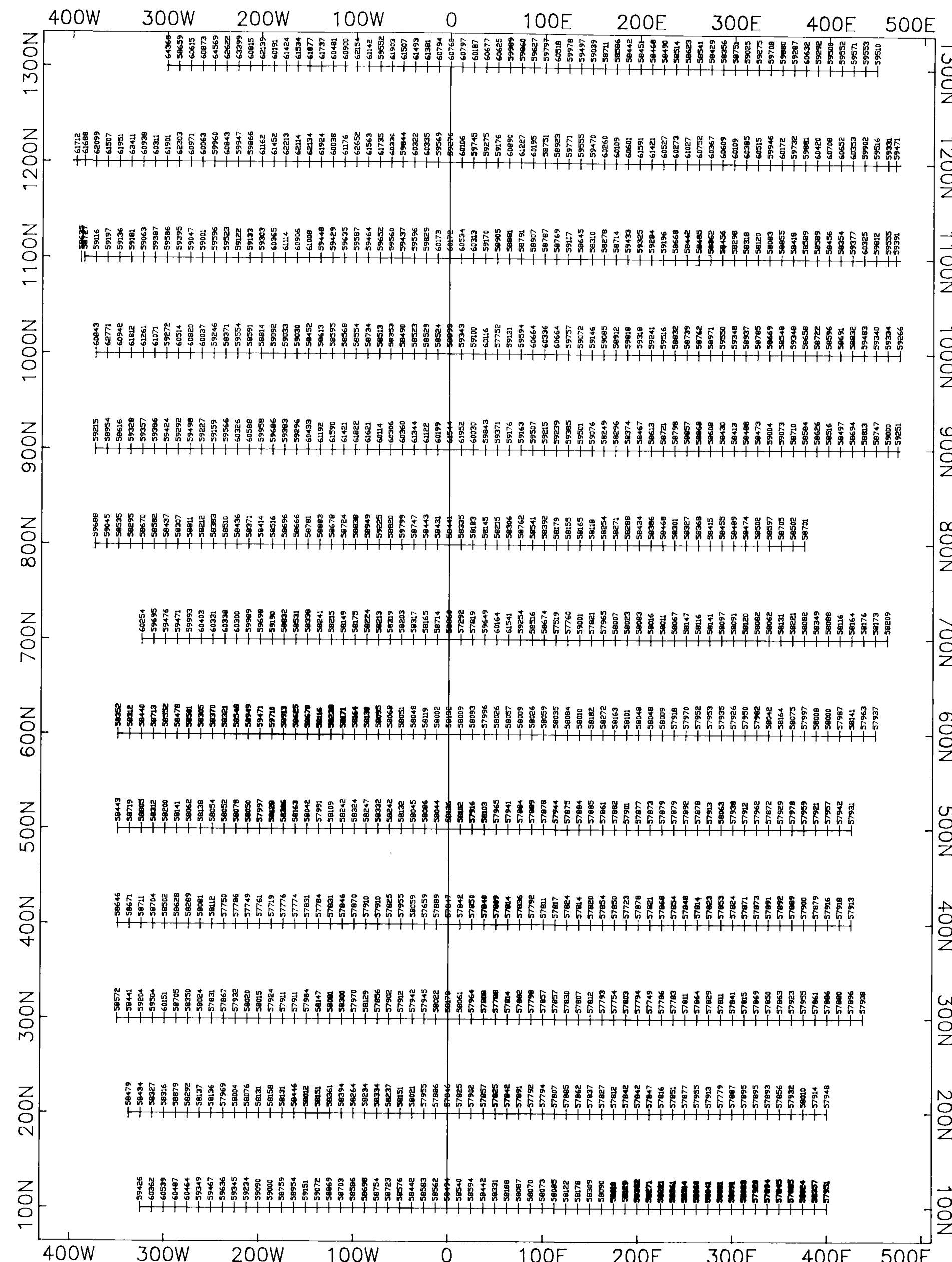
Plan No.

M-381

CLAIM 1211867



CLAIM 1211867



LEGEND

SURVEY BY: B. MADILL
INSTRUMENT: GEOMETRICS G-816 PROTON MAGNETOMETER
BASE STATION: LINE ON, 0+00 SET AT 58,494 nT
CONTOUR INTERVAL: 50 nT



220



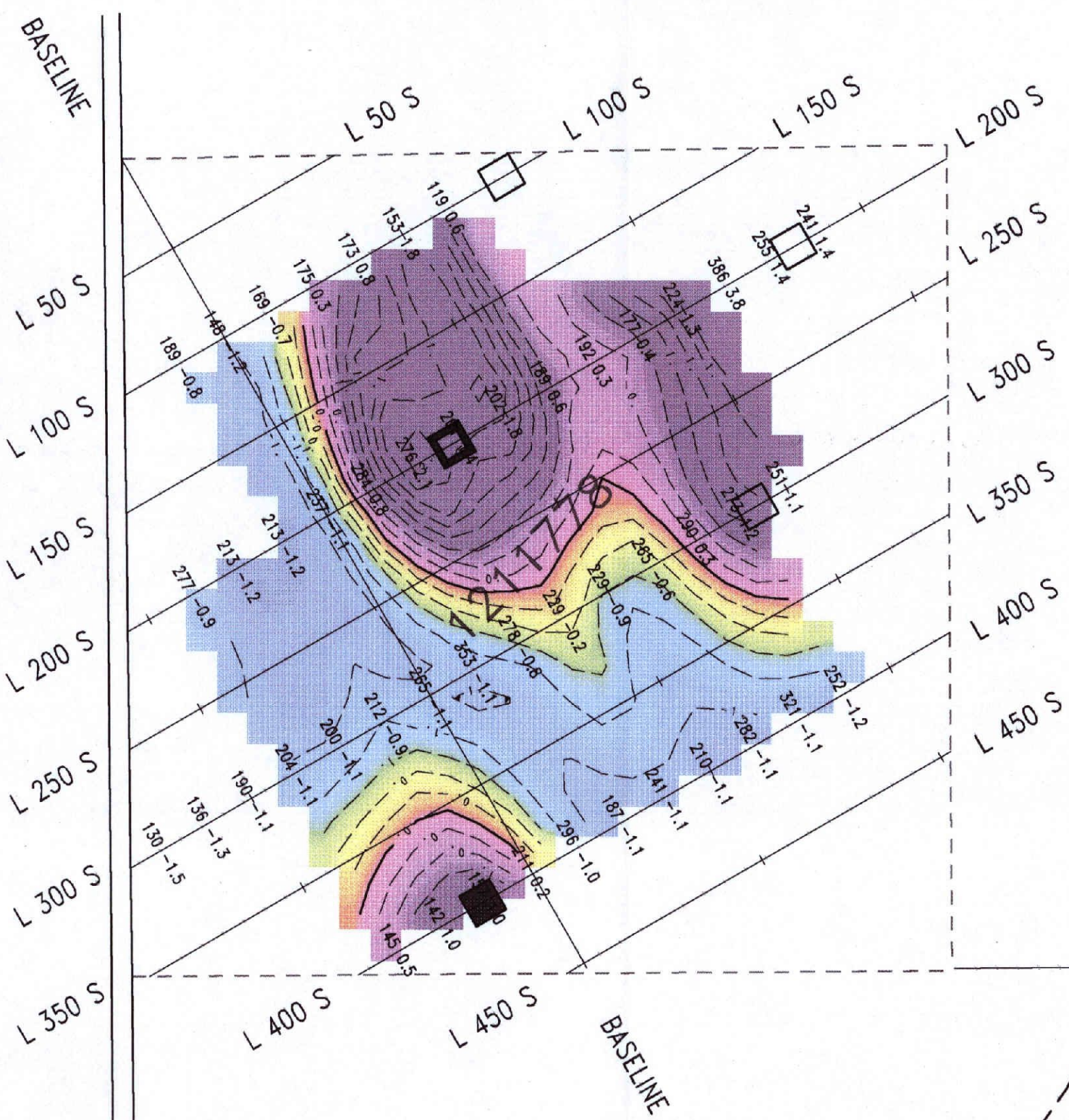
SCALE 1:4000
100 0 100
(meters)

CDK PLAYFAIR PROJECT

TOTAL FIELD MAGNETICS SURVEY
CONTOURED DATA AND POSTED DATA

PLAYFAIR TOWNSHIP
DISTRICT OF COCHRANE, ONT.
LARDER LAKE MINING DIVISION

NTS:	SCALE: 1:4000	DATE: JAN./97
PROJECT: OP88-128	DRAWN BY: S.J.C.	DRAWING No.



Highway 572

Trail

BASELINE

L 100 S

L 200 S

L 300 S

L 400 S

L 500 S

L 600 S

L 700 S

L 800 S

BASELINE

1202862

1214395

1214398

L 200 S

1217445

L 300 S

L 400 S

L 500 S

L 600 S

L 700 S

L 800 S

BASELINE

Pike

Pike

Little

Pike

River

River

River

River

River

River

River

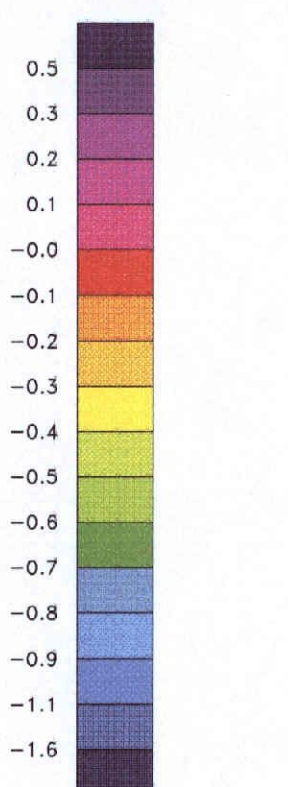
River

River

River

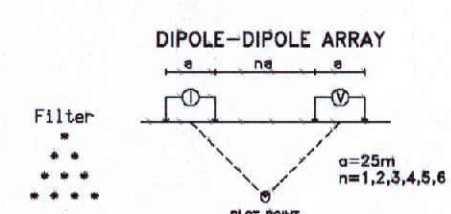
River

River



Polarization (I.P. effect)
at N=4 (milliradians)

LEGEND



Instruments: Phoenix PPT-1 Tx, Turbo V-5 Rx
Frequency: 1.0 Hz
Operator: Remy Belanger

I.P. survey by Remy Belanger
December 1996

INTERPRETATION

■ Polarization increase accompanied by a significant decrease of the apparent resistivity.
Semi-massive to massive sulphides, graphite. Normally will cause a conductor on an E.M. survey such as MaxMin or Input.

□ Polarization increase without any significant decrease of the apparent resistivity.
Disseminated to stringer to semi-massive sulphides, disseminated graphite, apatite-rich sulphides. Also altered, pyritized structures, altered dykes, magnetite, magnetite veins.

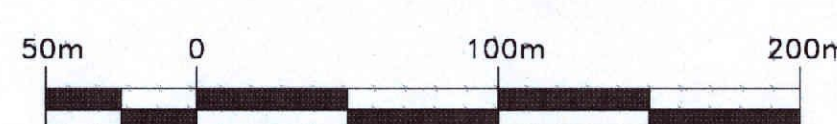
□ Poorly defined polarization increase with no apparent resistivity signature.
Small quantities of sulphides, narrow mineralized veins, sometimes silty mudstones, due to contact problems, magnetite, clay or micaceous minerals.

225.84	225.84
226.42	226.42
227.14	227.14
228.01	228.01
229.01	229.01
230.14	230.14
231.42	231.42

Resistivity (Ohm-metres)

Polarization (milliradians)

Scale 1:2,500



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MINING LANDS BRANCH

2.17049



230

C D K

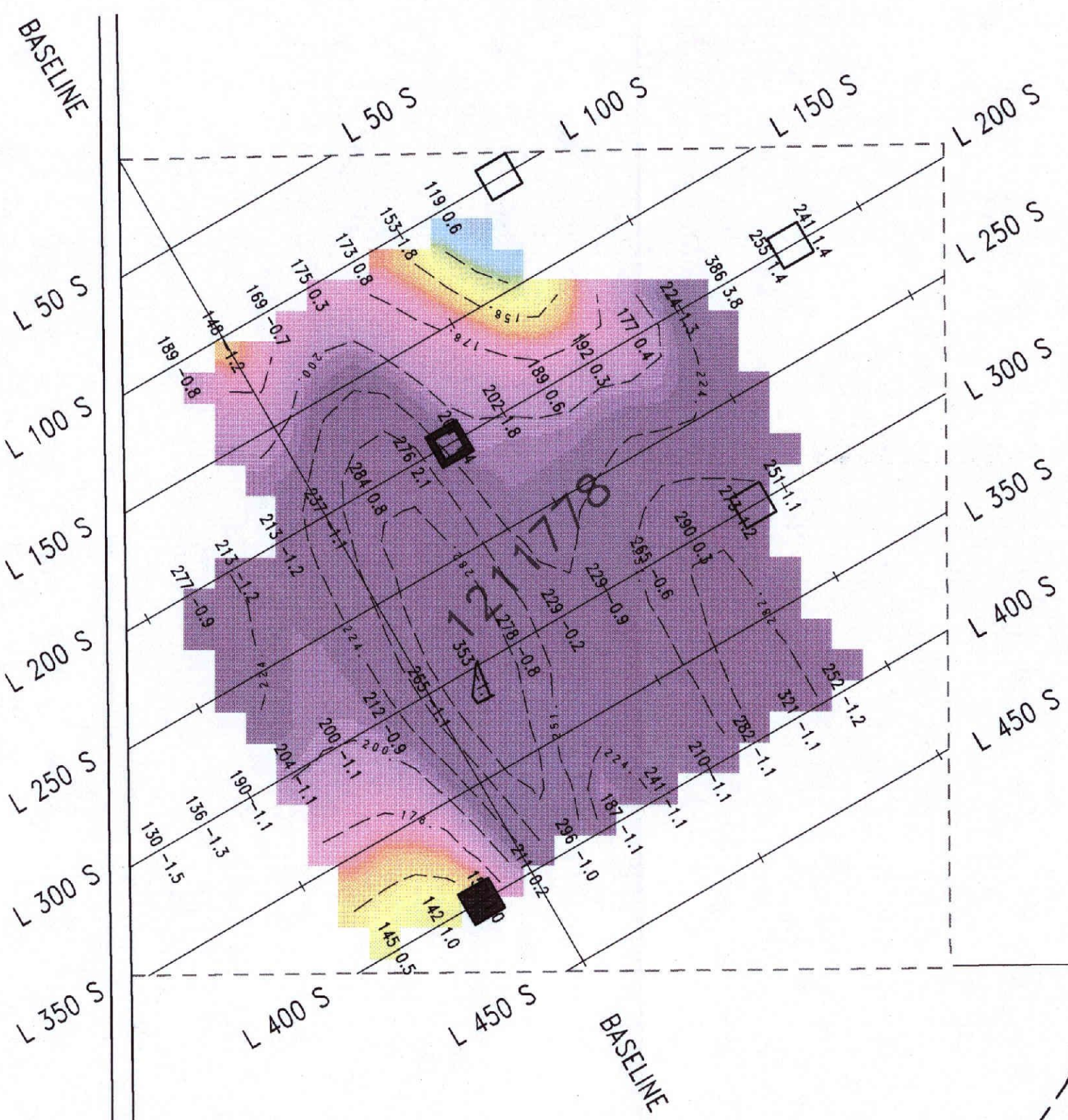
CDK GUIBORD PROJECT

INDUCED POLARIZATION SURVEY

Contours of the polarization (I.P. effect)

Data processing and interpretation by:	Guibord Twp., Ont.
Gerard Lambert, P.Eng.	Scale 1:2,500 N.T.S. 42 A/B
LAMBERT GEOSCIENCES LTD.	I.P. Survey by R. Belanger
January 1997	

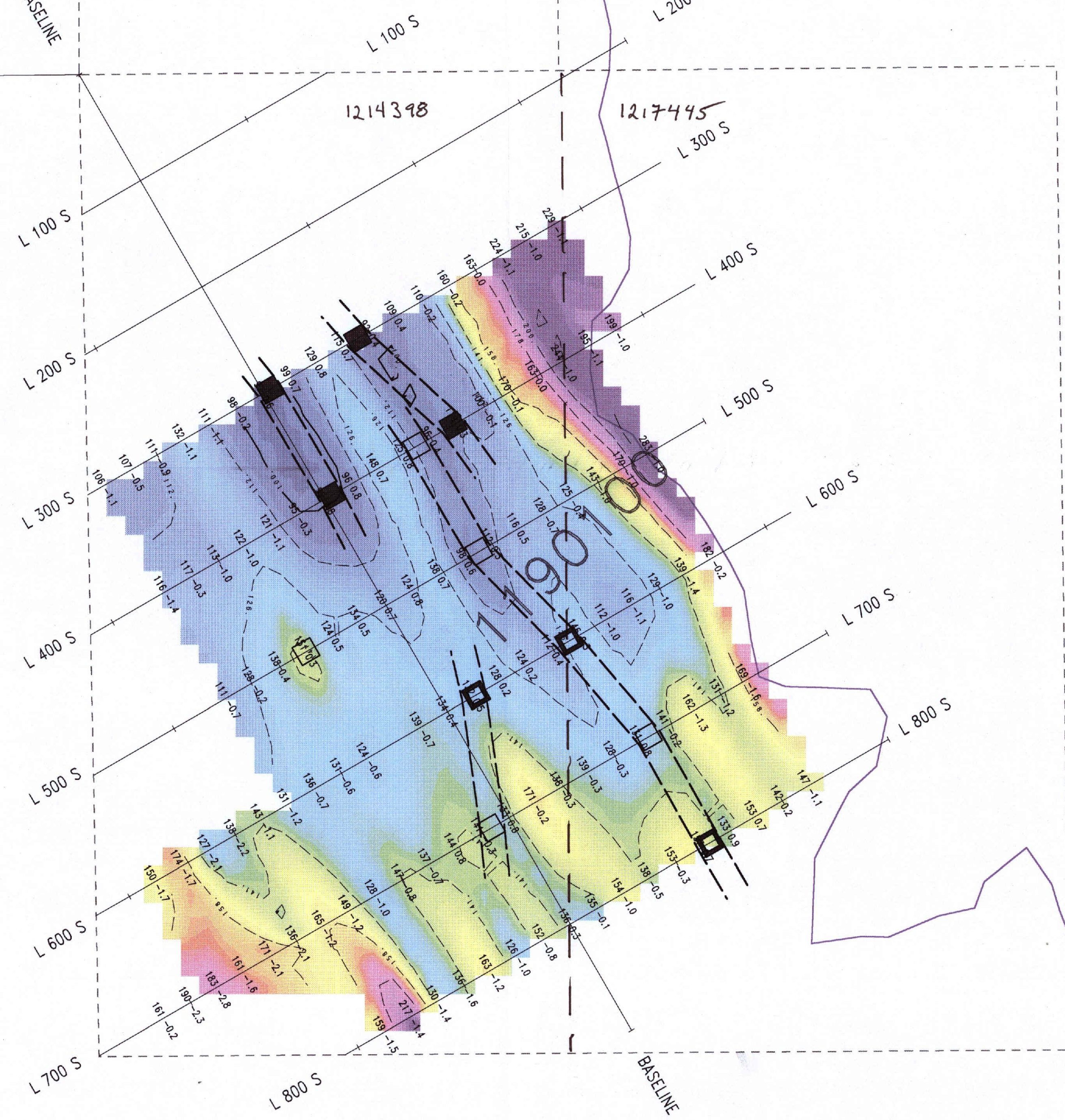




Highway 572

Trail

BASELINE



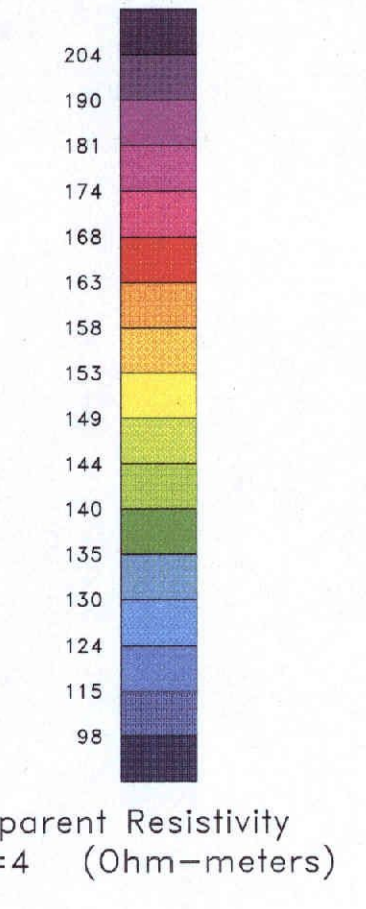
Pike

Little

Pike

River

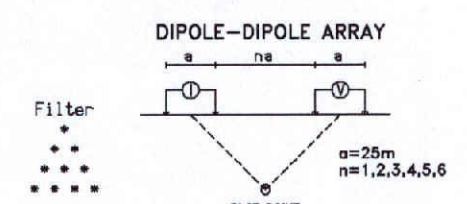
River



Apparent Resistivity
at N=4 (Ohm-meters)



LEGEND

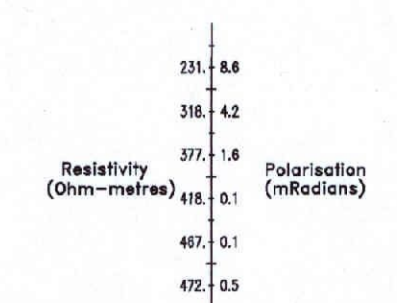


Instruments: Phoenix BPT-1 Tx, Turbo V-5 Rx
Frequency: 1.0 Hz
Operator: Remy Belanger

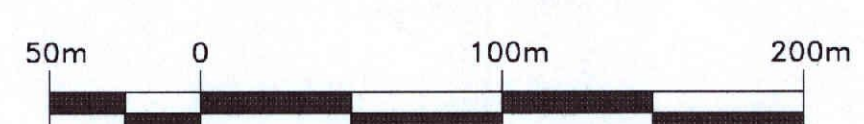
I.P. survey by Remy Belanger
December 1996

INTERPRETATION

- Polarisation increase accompanied by a significant decrease of the apparent resistivity.
Semi-passive to massive sulphides.
graphite. Normally will cause a conductor on an E.M. survey such as MaxMin or Input.
- Polarisation increase without any significant decrease of the apparent resistivity.
Disseminated to stringer to semi-massive sulphides, discontinuous graphite, sphalerite-rich sulphides. Also altered, pyritized structures, siliceous masses, waste material, asbestos veins.
- Poorly defined polarisation increase with no apparent resistivity signature.
Small quantities of sulphides, narrow mineralized veins, sometimes noisy readings due to contact problems, weathered, clay or asbestos veins.



Scale 1:2,500



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MINING LANDS BRANCH

2.17049



240

C D K

CDK GUIBORD PROJECT

INDUCED POLARIZATION SURVEY

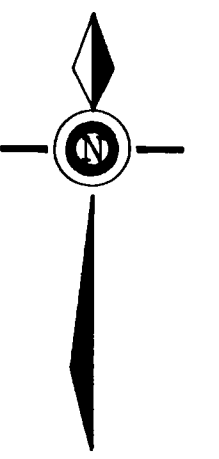
Contours of the apparent resistivity

Data processing and interpretation by:	Guibord Twp., Ont.
Gerard Lambert, P.Eng.	Scale 1:2,500 N.T.S. 42 A/8
LAMBERT GEOSCIENCES LTD.	I.P. Survey by R. Belanger
January 1997	



LOT 12

LOT 11

ASTRONOMIC NORTH

1214395

CONC. II

CONC. II

HISLOP TWP.

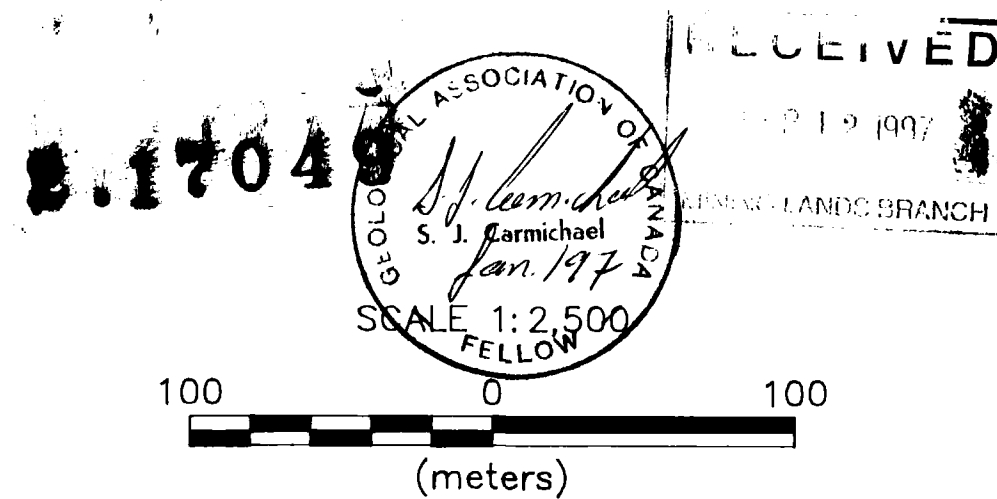
GUIBORD TWP.

LEGEND

SURVEY BY: B. MADILL
INSTRUMENT: GEOMETRICS G-816 PROTON
MAGNETOMETER
BASE STATION: CLAIM 1211778, 0+00, 0+50S
SET AT 57.987 nT
CLAIM 1214398, 0+00, 1+00S
SET AT 58,665 nT
CONTOUR INTERVAL: 25 nT



250



CDK GUIBORD PROJECT

TOTAL FIELD MAGNETICS SURVEY
CONTOURED DATA

GUIBORD TOWNSHIP
DISTRICT OF COCHRANE, ONT.
LARDER LAKE MINING DIVISION

Contour Interval: 25.000 m

NTS:	SCALE: 1: 4000	DATE: JAN./97
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PROJECT: OP96-129	DRAWN BY: S.J.C.	DRAWING No.
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