

REPORT ON
GEOPHYSICAL WORK

2.81501

ON

GRIDS 'B', 'C' AND 'D'
CAVELL TOWNSHIP

NTS: 41-O/08

PROJ # :

for
WALLBRIDGE MINING COMPANY LIMITED

FEBRUARY 2005

D. LONDRY
TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

An HLEM survey was carried out on Grids 'B', 'C' and 'D', Cavell Township, for Wallbridge Mining Company Limited in January of 2005.

The HLEM survey detected four zones of very good conductivity. Conductor A is very shallow on Lines 800 and 850 East and the source of the conductivity could likely be determined by trenching. It is recommended that conductor D is tested by diamond drilling on Line 450 East. Conductors B and C are both very small zones, low priority targets and should be re-evaluated after A and D have been further investigated.

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GRIDS 'C' AND 'D'

1. HLEM Results, 222 Hz, 150 Metre Coil Separation
2. HLEM Results, 444 Hz, 150 Metre Coil Separation
3. HLEM Results, 888 Hz, 150 Metre Coil Separation
4. HLEM Results, 1777 Hz, 150 Metre Coil Separation

INTRODUCTION

A horizontal loop electromagnetic (HLEM) survey was run on Grids 'B', 'C' and 'D', Cavell Township, for Wallbridge Mining Company Limited in January of 2005. The purpose of the work was to locate conductivity outlined in an 2004 airborne survey.

The property is located 150 kilometres northwest of the city of Sudbury and 33 kilometres east southeast of the village of Sultan in the northeast part of Cavell Township, Porcupine Mining Division (Figure 1(a)). It was accessed by travelling south from the Sultan Industrial Road towards the village of Ramsay.

The survey covered parts of 3 mining claim (Figure 1(b)) which are comprised of a total of 36, forty acre claim units (Table 1).

The survey was carried out by J. derWeduwen and S. Polson.

CLAIM #	# of UNITS	RECORDING DATE	RECORDED HOLDER	DESCRIPTION	TOWNSHIP
3003858	8	Sep 22, 2004	Wallbridge Mining Company Limited		Cavell
3003859	16	Sep 22, 2004	Wallbridge Mining Company Limited		Cavell
3015072	12	Feb 18, 2004	Wallbridge Mining Company Limited		Cavell

Table 1 : Property Description

GENERAL GEOLOGY

The geology of Cavell township is presented on map P237 (Giblin et al, 1977) at a scale of 1 inch to 2 miles and map 2419 (Giblin, 1979) at a scale of 1 inch to 4 miles. The geology of the townships directly to the south of Cavell Township was mapped by the Ontario Department of Mines in 1959 and is presented on map 2013 at a scale of 1 inch to 1 mile (Rogers D.P., 1962). A belt of Archean metasediments and

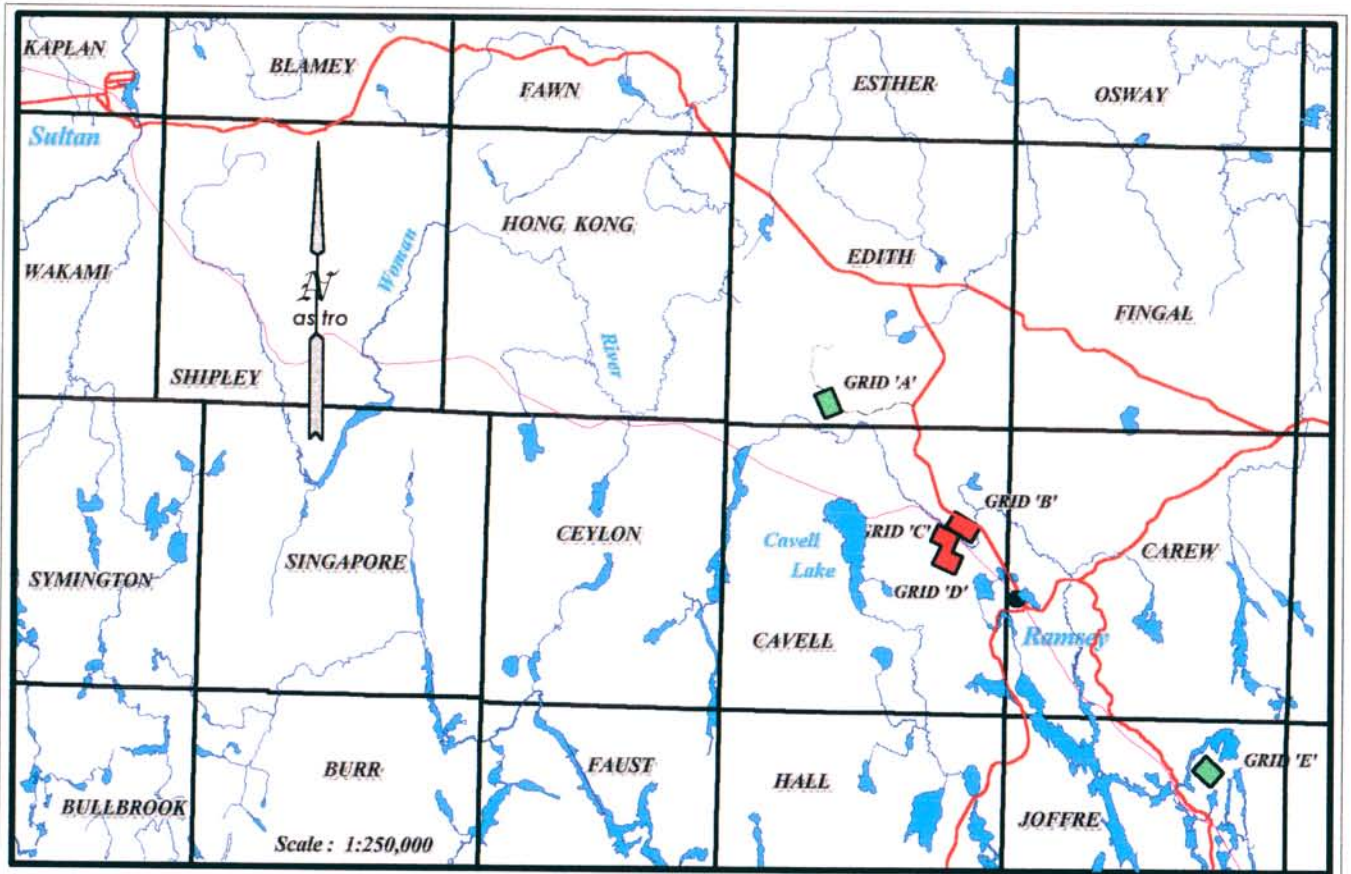


Figure 1(a) : Location Map

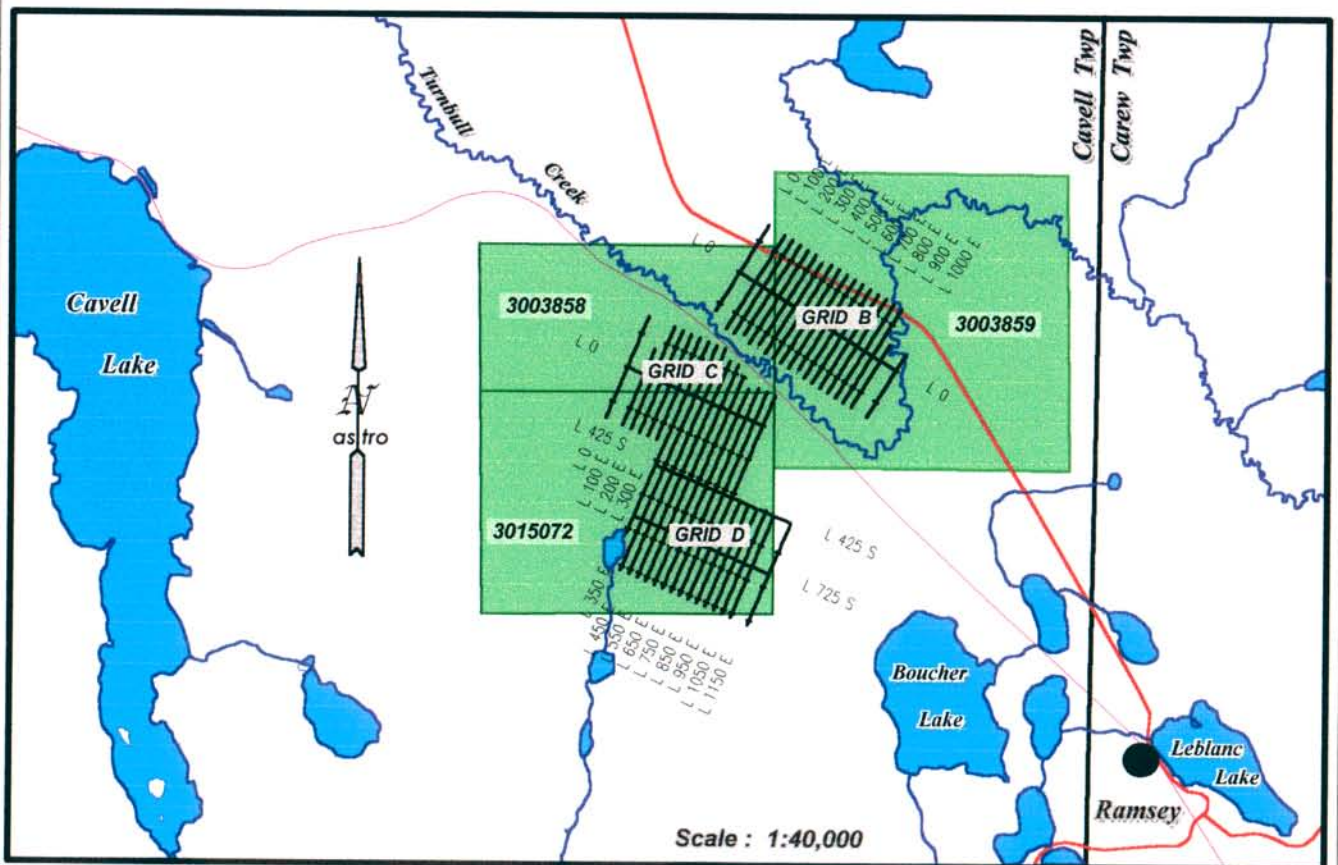


Figure 1(b) : Claim Map

metavolcanics strikes northwest from the village of Biscotasing to the village of Ramsay and likely continues through the area in which grids 'B', 'C' and 'D' are located. Granites are present to the east and west of the volcanics and the volcanics are divided into two parts by a granodiorite intrusive. An outcrop of serpentized peridotite directly to the north of grid 'E' suggests that the volcanics have also been intruded by ultrabasic and basic bodies. Rogers (1962) suggests that the volcanics are synclinal in structure.

PREVIOUS WORK

There has been very little previous work filed for assessment credits in Cavell Township (Table 2).

In 1996, **Goldcorp Inc.** carried out an exploration program on 2 claim blocks, one in Edith Township, to the northwest of Grid 'A' and the other in Edith and Cavell Townships, to the north of Grid 'B'. The program included magnetic, HLEM, soil geochemical and geological surveys along 88 kilometres of grid lines. The surveys were conducted along grid lines oriented N55°E and spaced every 80 metres on the east claim block and grid lines oriented N65°E and spaced every 80 metres on the west claim block. The HLEM survey was run with a coil separation of 100 feet and frequencies of 444, 1777 and 3555 Hertz.

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	TIMMINS/ERMES FILES
1996	Goldcorp Inc.	Mag, HLEM		41O09SW2001
2004	Wallbridge Mining Company Limited	Amag, AEM		T-5032

Table 2. Summary of previous assessment work.

In 2004, **Wallbridge Mining Company Limited** flew magnetic and VTEM surveys over two blocks

in the area. One block, centered in the northeast corner of Joffre Township, was covered with flight lines spaced every 50 metres at an orientation of N55°E. The second block, in Edith and Cavell Townships, was flown with lines spaced every 100 metres at an orientation of N55°E.

SURVEY DESCRIPTIONS

Grid 'B' consists of lines oriented at N32°E, spaced every 50 metres and picketed every 25 metres.

Grids 'C' and 'D' consist of lines oriented at N23°E, spaced every 50 metres and picketed every 25 metres.

The horizontal loop EM survey was carried out with the Apex Parametrics MaxMin I-5 and MMC datalogger. This instrument measures the in-phase and quadrature components of the secondary field as a percentage of the primary field; the depth of penetration is approximately one half of the coil separation. Readings were taken every 25 metres using a coil separation of 150 metres and frequencies of 222, 444, 888 and 1777 Hertz. A total of 376 stations were sampled along 11.9 kilometres of line on Grid 'B' and 748 stations were read along 21.8 kilometres of line on Grid 'C' and 'D'. Two lines on Grid 'B' were detailed using a 50 metre cable; 18 readings were taken along 300 metres of line.

The coils were kept co-planar throughout the survey; tilts were measured with a Suunto clinometer where necessary. There were no corrections made for short cable.

EM RESULTS

The results of the HLEM survey are profiled on maps 1 to 4 at a scale of 1:2500; the profile scale used for all of the frequencies is 1 cm = 20 %. The results using 444 Hertz are also presented in Figure 2 at a scale of 1:10,000.

Anomaly 'A' strikes between east-west and northwest-southeast on Lines 650 East to 1000 East,

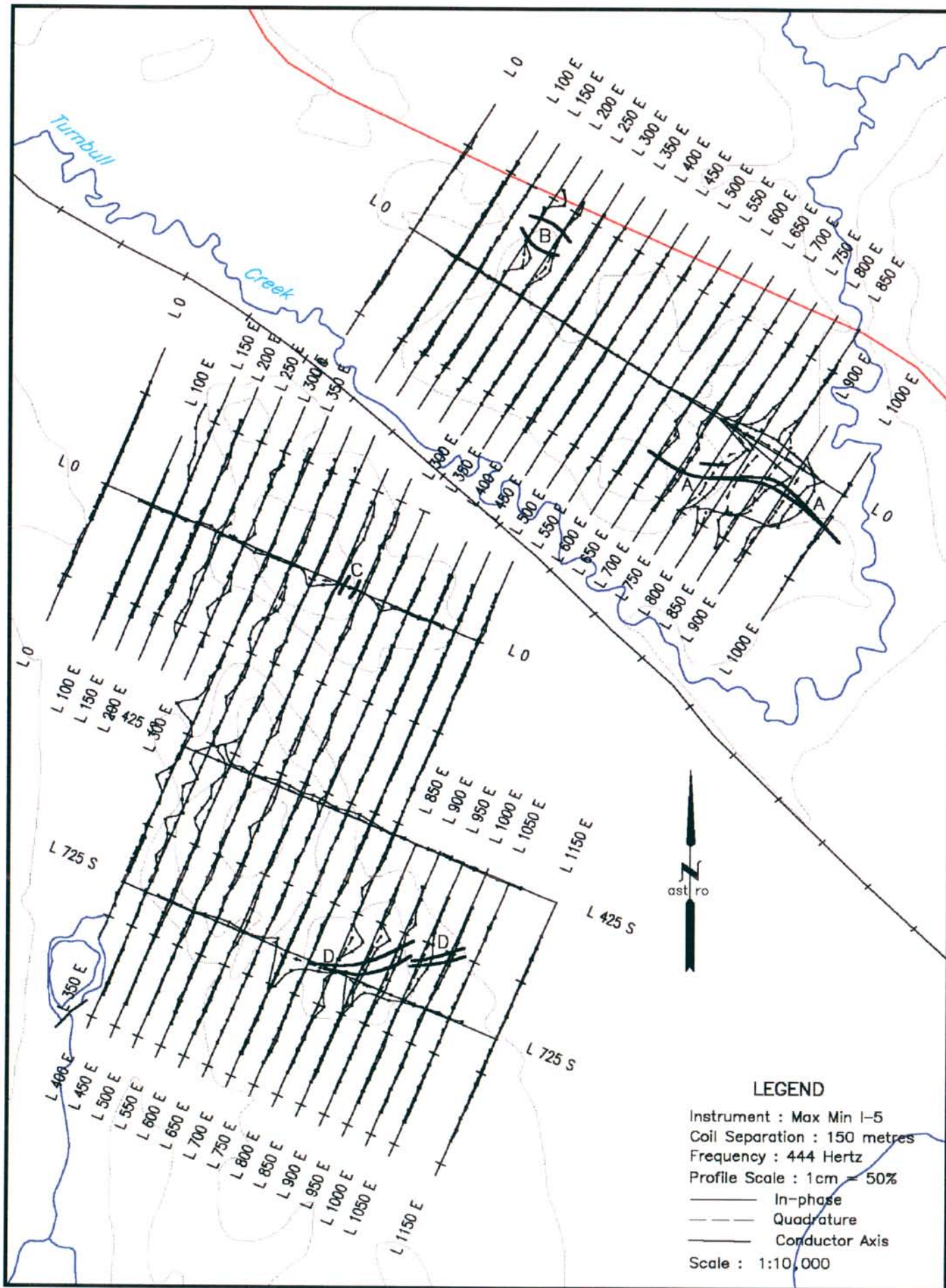


Figure 2 : HLEM Survey, 444 Hertz, Grids 'B', 'C' and 'D'

Grid 'B', for a strike length of at least 350 metres. The source of the anomaly is very good conductivity. The depth is very shallow on Lines 800 and 850 East and increases to the east and west (Table 3). The width is up to 25 metres, on Line 750 East, and the dip is to the north on Lines 650 East to 800 East and to the south on Line 850 East. The dip can not be determined on Lines 900 and 1000 East because the anomaly is incomplete to the north on these lines; it is difficult to interpret any parameters on Line 1000 East because of the low amplitude.

LINE	ANOMALY CENTER	ANOMALY WIDTH (m)	IP (%)	Q (%)	DEPTH (m)	CONDUCTIVITY THICKNESS (mhos)	COMMENTS
650 E	130 S	narrow	6	3	81	38	N dip
700 E	130 S	narrow	5	4	72	23	N dip
750 E	100 S	25	16	9	42	28	N dip
800 E	87.5 S	5	45	8	15	151	N dip
850 E	62.5 S	10	50	8	<15	167	S dip
900 E	55 S	10	23	4	44	151	
1000 E	75 S	narrow	?	?	?	?	

Table 3: Anomaly 'A' Interpretation, 444 Hz, 150 metre coil separation.

Part of Lines 800 and 850 East were re-surveyed with a 50 metre cable in order to obtain a more accurate depth determination (Figures 3 and 4). The survey on Line 800 East indicates a south dip compared to the north dip indicated in the deeper survey. The depth to the conductor on both lines is less than 5 metres (Table 4). The survey did not extend far enough on Line 850 East to cover the north shoulder and so the dip can not be determined on this line.

Anomaly 'B' is centered at 130 North on Lines 200 and 250 East, Grid 'B'. The source of the anomaly is a 50 metre wide zone of very good conductivity at a depth of 42 metres on Line 200 East and

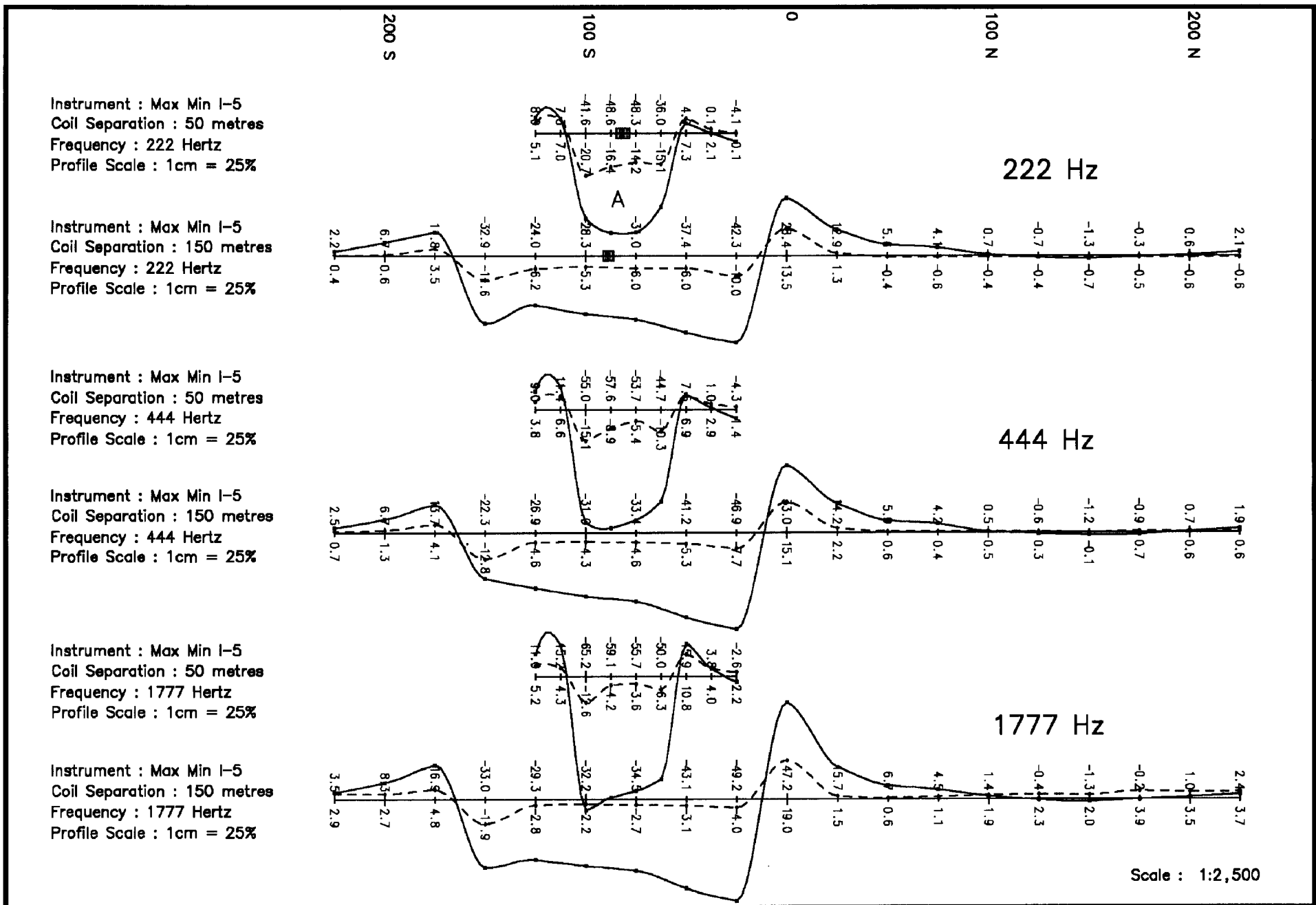


Figure 3 : Geophysics Compilation, Line 800 East, Grid 'B'

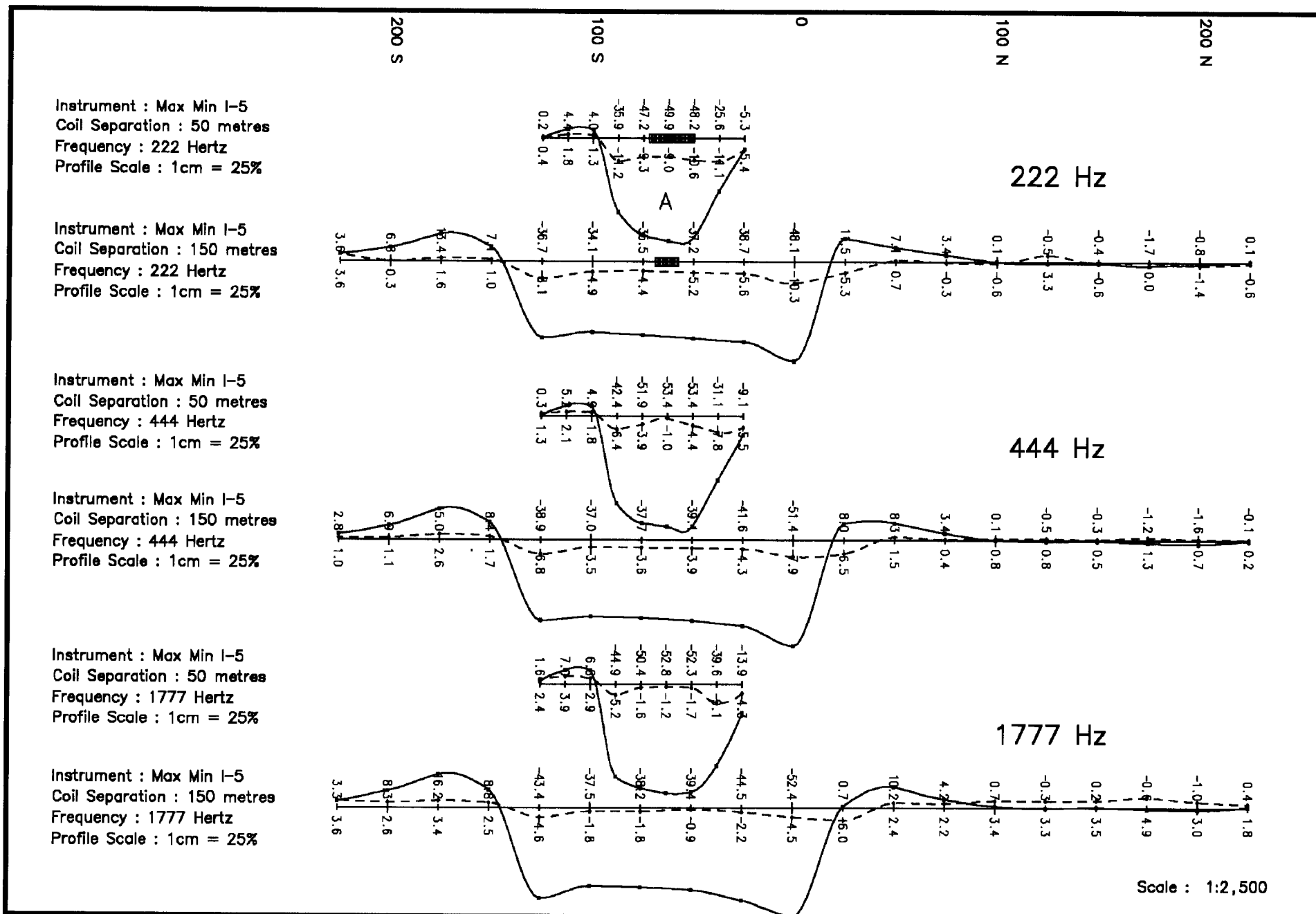


Figure 4 : Geophysics Compilation , Line 850 East, Grid 'B'

LINE	ANOMALY CENTER	ANOMALY WIDTH (m)	IP (%)	Q (%)	DEPTH (m)	CONDUCTIVITY THICKNESS (mhos)	COMMENTS
800 E	87.5 S	5	47	21	<5	142	S dip
850 E	62.5 S	20	49	12	<5	370	

Table 4: Anomaly 'A' Interpretation, 444 Hz, 50 metre coil separation.

66 metres on Line 250 East (Table 5). The fact that the field is only negative when the transmitter or receiver is over the conductor, suggests that the source is small, probably with little depth extent.

LINE	ANOMALY CENTER	ANOMALY WIDTH (m)	IP (%)	Q (%)	DEPTH (m)	CONDUCTIVITY THICKNESS (mhos)	COMMENTS
200 E	130 S	50	11	10	42	17	
250 E	130 S	50	9	5	66	32	

Table 5: Anomaly 'B' Interpretation, 444 Hz, 150 metre coil separation.

Anomaly 'C' is a one line anomaly centered at 525 East on Base Line 0 North, Grid 'C'. The source is a 25 metre wide zone of good conductivity at a depth of 49 metres (Table 6). This anomaly is also only negative when the transmitter or receiver is close to the conductor, again suggesting a small source.

LINE	ANOMALY CENTER	ANOMALY WIDTH (m)	IP (%)	Q (%)	DEPTH (m)	CONDUCTIVITY THICKNESS (mhos)	COMMENTS
BL 0 N	525 E	25	139	8	49	27	

Table 6: Anomaly 'C' Interpretation, 444 Hz, 150 metre coil separation.

Anomaly 'D' strikes east northeast between 775 East on Tie Line 725 South and 610 South on Line 1000 East, Grid 'D', for a strike length of approximately 300 metres. The source of the anomaly is a wide zone of very good conductivity (Table 7). The depth to the conductor increases from 18 metres at the west end, to 94 metres at the east end. The profiles on Lines 725 South to Line 900 East suggest that the conductor has a limited depth extent in this area. The dip is close to vertical.

LINE	ANOMALY CENTER	ANOMALY WIDTH (m)	IP (%)	Q (%)	DEPTH (m)	CONDUCTIVITY THICKNESS (mhos)	COMMENTS
725 S	775 E	25	43	8	18	151	
800 E	718 S	12.5	15	5	55	76	
850 E	700 S	25	13	3	64	132	
900 E	655 S	37	5	2	87	63	
950 E	645 S	12.5	9	2	78	132	
1000 E	610 S	20	2	1	94	53	

Table 7: Anomaly 'D' Interpretation, 444 Hz, 150 metre coil separation.

The erratic, positive in-phase readings, mainly on Lines 250 East to 450 East between 0 and 600 South, are due to a short cable caused by rugged topography. The negative in-phase response on Lines 500 and 550 East are interesting, however they are believed to be due to coil misalignment because of the lack of a quadrature response.

Jan 19, 2006
Date


D. Londry
Timmins Geophysics Ltd.

REFERENCES

Giblin P.E., Leahy E.J., Thurston P.C., Siragusa G.M. and Sage R.P.

1977: Geological Compilation of the Rocky Island-Biscotasing Sheet, Districts of Algoma and Sudbury; Ontario Geological Survey Prelim. **Map P.237** (1977 Revision), Geological Compilation Series, scale 1:126,720 or 1 inch to 2 miles. Compilation by P.E. Giblin, E.J. Leahy, R.P. Sage, G.M. Siragusa and P.C. Thurston 1970-71, 1974-76.

Giblin P.E., Leahy E.J., and Robertson, J.A.

1979: Sault Ste. Marie-Elliot Lake Sheet, Districts of Algoma, Manitoulin and Sudbury; Ontario Geological Survey, **Map 2419**, Geological Compilation Series, Scale 1 inch to 4 miles.

Rogers, D.P.

1962: Geology of the Biscotasing area, District of Sudbury; Ontario Department of Mines Geological Report No. 7. Accompanied by **Map 2013** at a scale of 1 inch to 1 miles.

REPORT ON
GEOPHYSICAL WORK

ON

GRID 'A'
EDITH TOWNSHIP

2.31501

NTS: 41-O/08

PROJ# :

for
WALLBRIDGE MINING COMPANY LIMITED

FEBRUARY 2005

D. LONDRY
TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

An HLEM survey was carried out on Grid 'A', Edith Township, for Wallbridge Mining Company Limited in January of 2005.

The survey detected one zone of good conductivity. The indicated small size of the conductor makes it a low priority drill target.

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4. HLEM Results, 1777 Hz, 150 Metre Coil Separation

INTRODUCTION

A horizontal loop electromagnetic (HLEM) survey was run on Grid 'A', Edith Township, for Wallbridge Mining Company Limited in January of 2005. The purpose of the work was to locate conductivity outlined in an 2004 airborne survey.

The property is located 155 kilometres northwest of the city of Sudbury and 27 kilometres east southeast of the village of Sultan, in the south central part of Edith Township, Porcupine Mining Division (Figure 1(a)). It was accessed by travelling south from the Sultan Industrial Road towards the village of Ramsey and then by snowmobile along a bush road which cuts through the northern half of the grid.

The survey covered part of 3 mining claims (Figure 1(b)) which are comprised of 36, forty acre claim units (Table 1).

The survey was carried out by S. Polson and the author of this report.

CLAIM #	# of UNITS	RECORDING DATE	RECORDED HOLDER	DESCRIPTION	TOWNSHIP
3011678	16	Sep 22, 2004	Wallbridge Mining Company Limited		Edith
3011679	4	Sep 22, 2004	Wallbridge Mining Company Limited		Edith
3015075	16	Feb 18, 2004	Wallbridge Mining Company Limited		Edith/Cavell

Table 1 : Property Description

GENERAL GEOLOGY

Edith Township is located along the southern edge of the Swayze greenstone belt. The geology of the township is presented on map 2221 (Thurston, 1976) and map 2419 (Giblin, 1979), both at a scale of 1 inch to 4 miles.

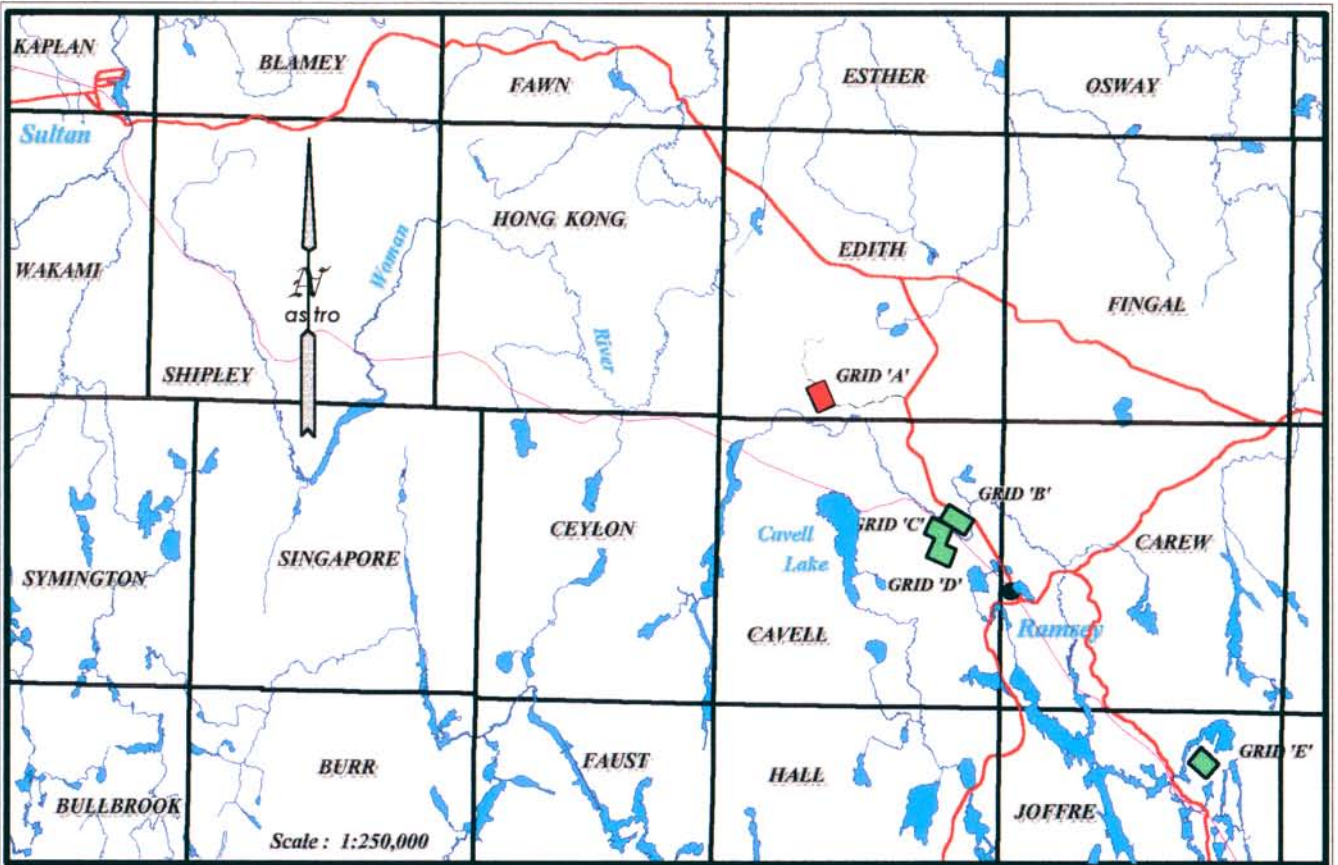


Figure 1(a) : Location Map

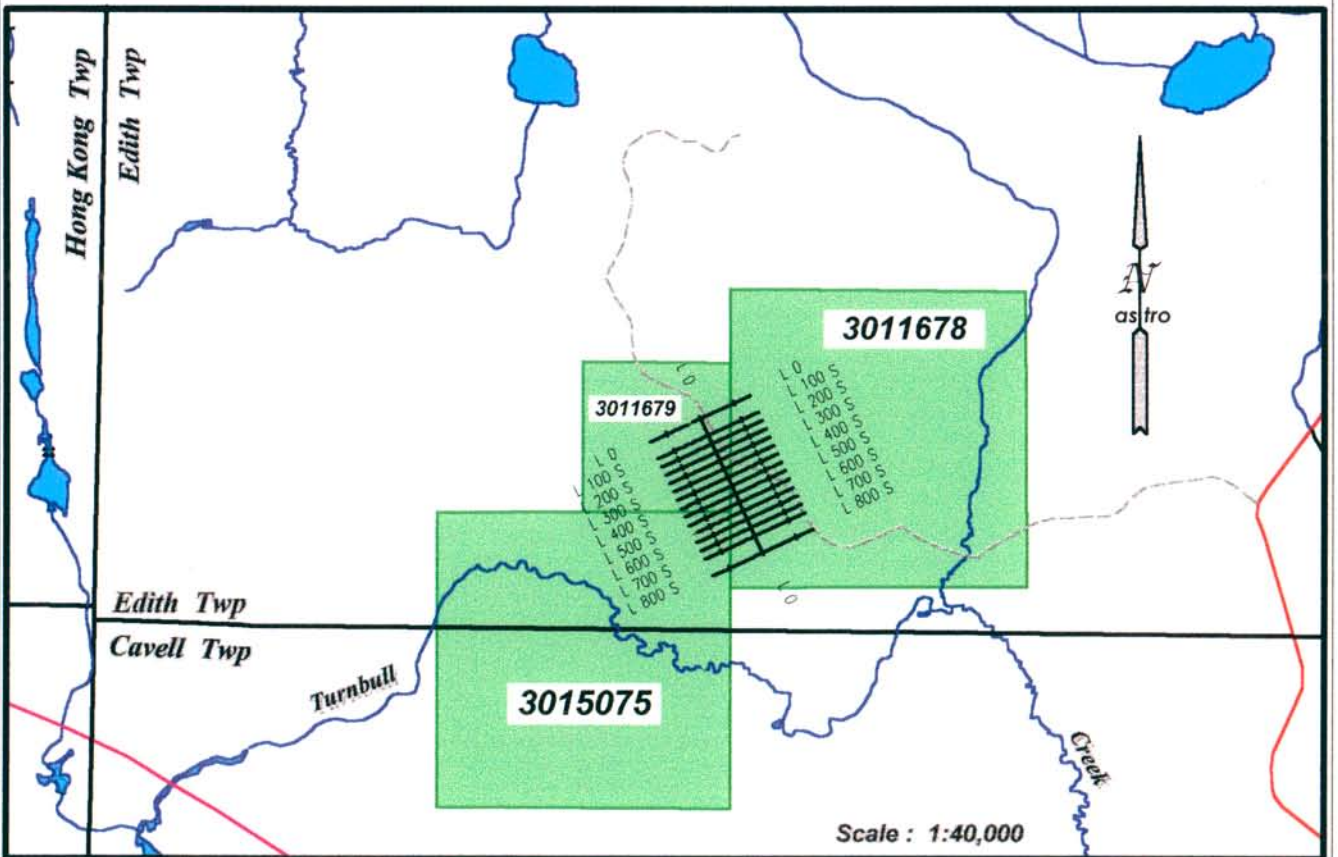


Figure 1(b) : Claim Map

The regional geology maps suggest that the property is underlain granites and intermediate to mafic metavolcanics of Archean age.

PREVIOUS WORK

There has been very little previous work filed for assessment credits in Edith Township (Table 2).

In 1972, **Hudson Bay Exploration and Development Company Limited** ran magnetic and HLEM surveys over a block of 43 claims which straddled the Edith-Hong Kong township line to the northwest of Grid 'A'. The surveys were conducted along grid lines oriented N20°E and spaced every 400 feet over the western half and every 200 feet over the eastern half. The magnetic survey was run with a vertical field, fluxgate magnetometer and the HLEM survey was run with a coil separation of 300 feet at a frequency of 1600 Hertz. The EM survey mapped poor conductivity associated with a sulphide showing; at least two holes were drilled to test the EM anomaly.

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	TIMMINS/ERMES FILES
1972	Hudson Bay Exploration & Development Co Ltd			41O09SW0010
1996	Goldcorp Inc.	Mag, HLEM		41O09SW2001
2004	Wallbridge Mining Company Limited	Amag, AEM		T-5032

Table 2. Summary of previous assessment work.

In 1996, **Goldcorp Inc.** carried out an exploration program on 2 claim blocks, one in Edith Township, to the northwest of Grid 'A' and the other in Edith and Cavell Townships, to the north of Grid 'B'. The program included magnetic, HLEM, soil geochemical and geological surveys along 88 kilometres of grid lines. The surveys were conducted along grid lines oriented N55°E and spaced every 80 metres on the

east claim block and grid lines oriented N65°E and spaced every 80 metres on the west claim block. The HLEM survey was run with a coil separation of 100 feet and frequencies of 444, 1777 and 3555 Hertz.

In 2004, **Wallbridge Mining Company Limited** flew magnetic and VTEM surveys over two blocks in the area. One block, centered in the northeast corner of Joffre Township, was covered with flight lines spaced every 50 metres at an orientation of N55°E. The second block, in Edith and Cavell Townships, was flown with lines spaced every 100 metres at an orientation of N55°E.

SURVEY DESCRIPTIONS

The grid on the property consists of lines oriented at N65°E, spaced every 50 metres and picketed every 25 metres.

The horizontal loop EM survey was carried out with the Apex Parametrics MaxMin I-5. This instrument measures the in-phase and quadrature components of the secondary field as a percentage of the primary field; the depth of penetration is approximately one half of the coil separation. Readings were taken every 25 metres using a coil separation of 150 metres and frequencies of 222, 444, 888 and 1777 Hertz. A total of 312 stations were sampled along 9.8 kilometres of line. A total of 23 readings along 325 metres of line were read using a coil separation of 50 metres and 27 readings along 425 metres of line were read using a coil separation of 100 metres.

The coils were kept co-planar throughout the survey; tilts were measured with a Suunto clinometer where necessary. There were no corrections made for short cable.

EM RESULTS

The results of the HLEM survey are profiled on maps 1 to 4 at a scale of 1:2500; the profile scale used for all of the frequencies is 1 cm = 20 %. The results using 444 Hertz are also presented in Figure 3

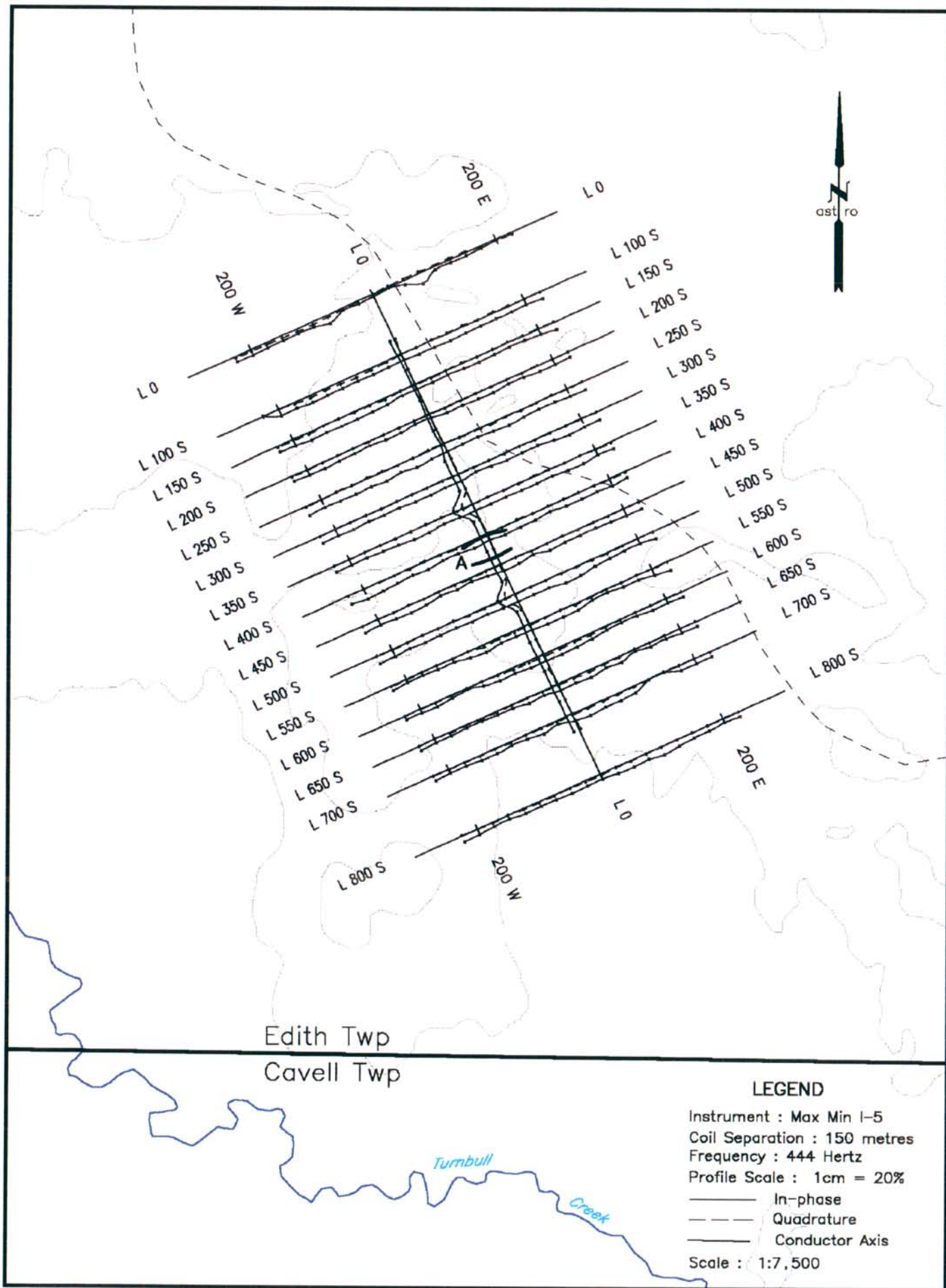


Figure 2 : HLEM Survey, 444 Hertz, Grid 'A'

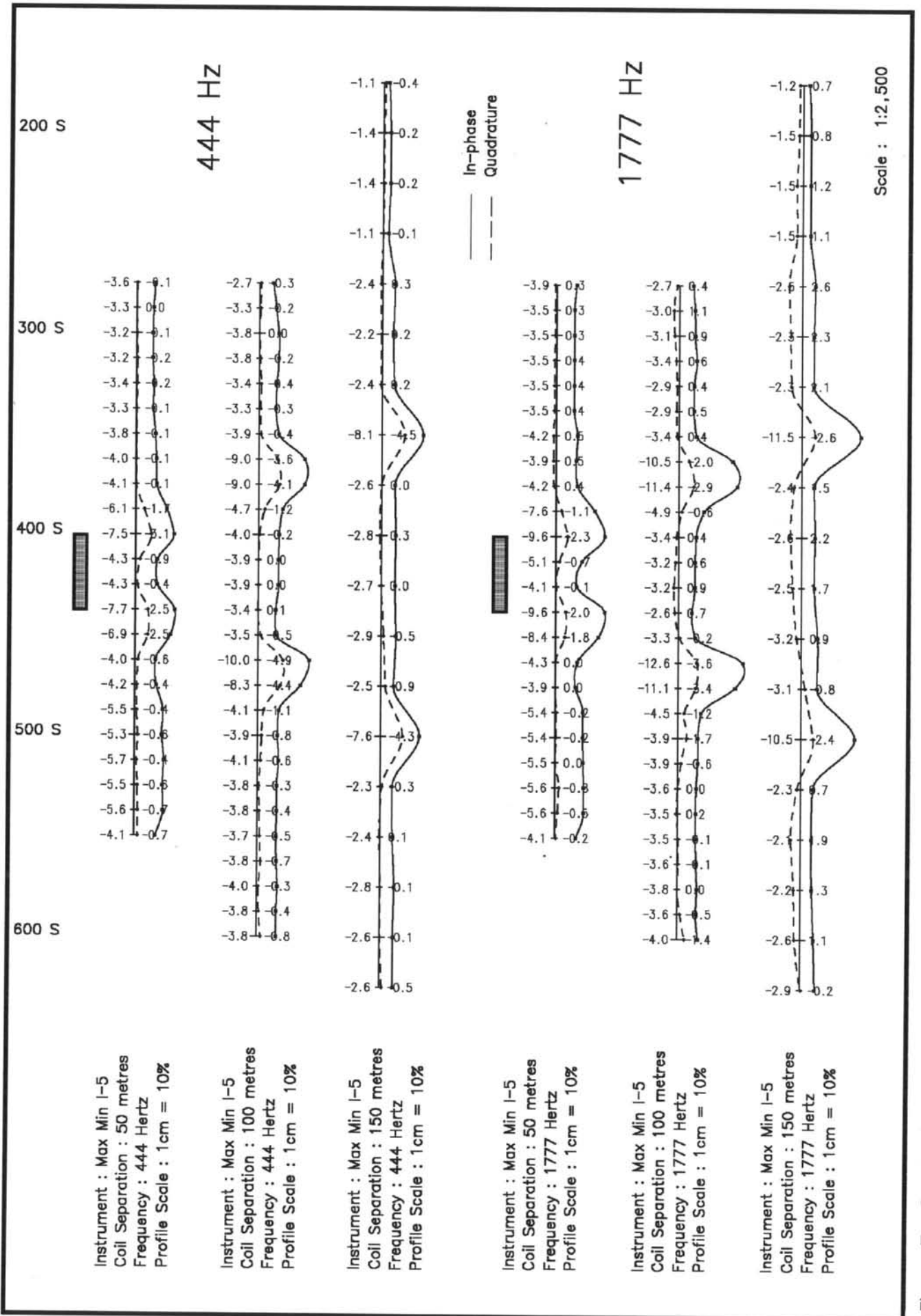


Figure 3 : Geophysics Compilation, Base Line 0 East, Grid 'A'

at a scale of 1:7,500.

Anomaly 'A' is a one line response centered at 418 South on Base Line 0 East. It was detailed with a 50 and 100 metre coil separation to get a more accurate depth(Figure 3). The source is a 37 metre wide zone of good conductivity at a depth of 21 metres (Table 3). The anomaly is only negative when the receiver or transmitter is over the conductor (even with the 50 metre coil separation) indicating a limited size.

LINE	ANOMALY CENTER	ANOMALY WIDTH (m)	IP (%)	Q (%)	DEPTH (m)	CONDUCTIVITY THICKNESS (mhos)	COMMENTS
0 E	418 N	37	3	3	21	34	

Table 3: Anomaly 'A' Interpretation, 444 Hz, 50 metre coil separation.

LINE	ANOMALY CENTER	ANOMALY WIDTH (m)	IP (%)	Q (%)	DEPTH (m)	CONDUCTIVITY THICKNESS (mhos)	COMMENTS
0 E	418 N	37	6	4	51	39	

Table 4: Anomaly 'A' Interpretation, 444 Hz, 100 metre coil separation.

LINE	ANOMALY CENTER	ANOMALY WIDTH (m)	IP (%)	Q (%)	DEPTH (m)	CONDUCTIVITY THICKNESS (mhos)	COMMENTS
0 E	418 N	37	7	4	75	34	

Table 5: Anomaly 'A' Interpretation, 444 Hz, 150 metre coil separation.

Jan. 19, 2006
Date


D. Londry
Timmins Geophysics Ltd.

REFERENCES

Giblin, P.E., Leahy, E.J., and Robertson, J.A.

1979: Sault Ste. Marie-Elliot Lake Sheet, Districts of Algoma, Manitoulin and Sudbury; Ontario Geological Survey, **Map 2419**, Geological Compilation Series, Scale 1 inch to 4 miles.

Rogers, D.P.

1962: Geology of the Biscotasing area, District of Sudbury; Ontario Department of Mines Geological Report No. 7. Accompanied by **Map 2013** at a scale of 1 inch to 1 miles.

Thurston, P.C., Sage, R.P., and Siragusa, G.M.

1976: Chapleau-Foleyet Sheet, Districts of Algoma, Cochrane and Sudbury; Ontario Division of Mines, **Map 2221**, Geological Compilation Series, Scale 1 inch to 4 miles.

REPORT ON
GEOPHYSICAL WORK

ON

GRID E
JOFFRE TOWNSHIP

2.31501

NTS: 41-O/08

PROJ #:

for
WALLBRIDGE MINING COMPANY LIMITED

FEBRUARY 2005

D. LONDRY
TIMMINS GEOPHYSICS LTD.

SUMMARY AND RECOMMENDATIONS

An HLEM survey was carried out on Grid 'E', Joffre Township, for Wallbridge Mining Company Limited in January of 2005.

The HLEM survey detected one zone of very good conductivity. It is recommended that it is tested by diamond drilling on Line 450 East where the conductivity is the best.

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3. HLEM Results, 888 Hz, 150 Metre Coil Separation
4. HLEM Results, 1777 Hz, 150 Metre Coil Separation

INTRODUCTION

A horizontal loop electromagnetic (HLEM) survey was run on Grid 'E', Joffre Township, for Wallbridge Mining Company Limited in January of 2005. The purpose of the work was to locate conductivity outlined in a 2004 airborne survey.

The property is located 138 kilometres northwest of the city of Sudbury and 33 kilometres east southeast of the village of Sultan, in the northeast corner of Joffre Township, Porcupine Mining Division (Figure 1(a)). It was accessed by travelling south from the Sultan Industrial Road towards the village of Biscotasing which is located on the CPR railway line.

The survey covered part of 1 mining claim (Figure 1(b)) which is comprised of 15, forty acre claim units (Table 1).

The survey was carried out by J. derWeduwen and S. Polson, both of Timmins, Ontario.

CLAIM #	# of UNITS	RECORDING DATE	RECORDED HOLDER	DESCRIPTION	TOWNSHIP
3003792	15	May 06, 2004	Wallbridge Mining Company Limited		Joffre

Table 1 : Property Description

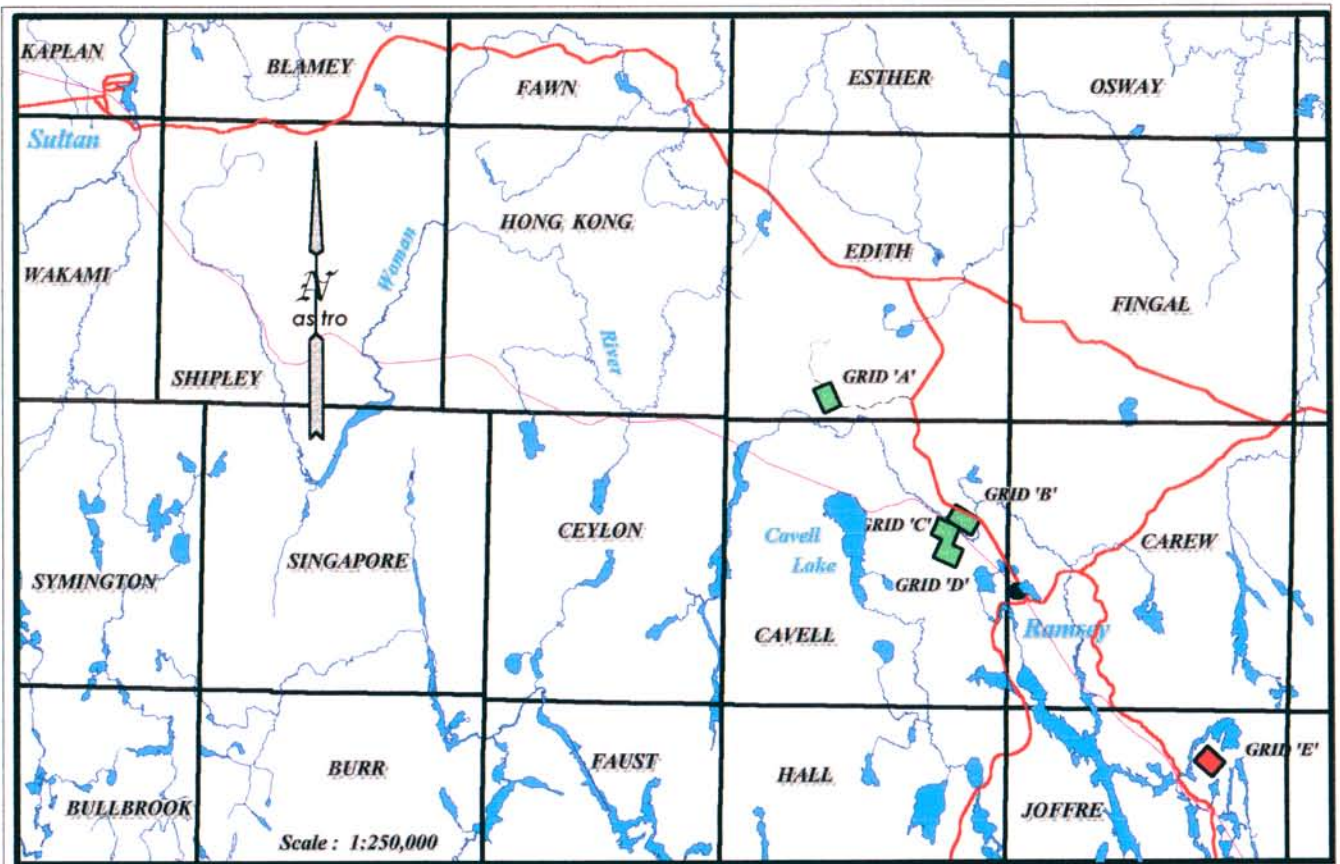


Figure 1(a) : Location Map

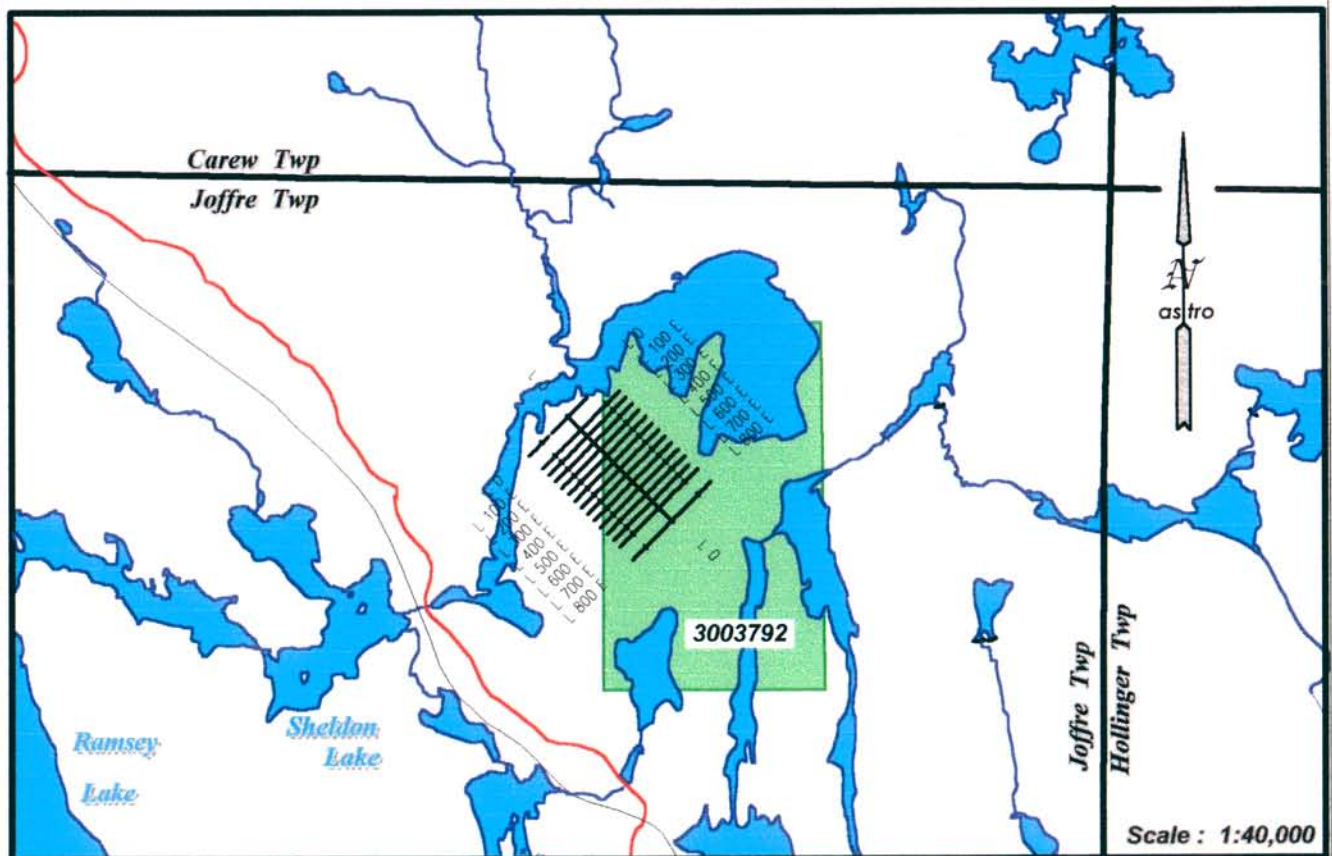


Figure 1(b) : Claim Map

GENERAL GEOLOGY

The geology of Joffre Township was mapped by the Ontario Department of Mines in 1959, along with a number of other townships in the Biscotasing area, and is presented on map 2013 at a scale of 1 inch to 1 mile (Rogers D.P., 1962). A belt of Archean metasediments and metavolcanics strikes north northwest through the middle of the township. Granites are located to the east and west of the volcanics and the volcanics are divided into two parts by a granodiorite intrusive. An outcrop of serpentized peridotite directly to the north of grid 'E' suggests that the volcanics have also been intruded by ultrabasic and basic bodies. Rogers (1965) suggests that the volcanics are synclinal in structure.

The geology of Joffre Township is also presented on map P237 (Giblin et al, 1977) at a scale of 1 inch to 2 miles and map 2419 (Giblin, 1979) at a scale of 1 inch to 4 miles.

PREVIOUS WORK

There has been very little previous work filed for assessment credits in Joffre Township (Table 2). The work that has been carried out is located along the volcanics to the east and west of the granodiorite intrusion.

In 1971, **Texas Gulf Sulphur Co. Limited** ran magnetic and HLEM surveys over a block of eight claims located to the west of Grid 'E', between Sheldon Lake and the east arm of Ramsay Lake. The surveys were conducted along grid lines spaced every 300 feet and oriented N55°E. The magnetic survey was run with a vertical field, fluxgate magnetometer and the HLEM survey was run with a coil separation of 200 feet at a frequency of 1600 Hertz. The EM survey outlined two zones of very good conductivity which strike N35°W and dip to the east. The grid covered a portion of the meta-volcanics to the west of the granodiorite intrusion.

In 1972, **John Godin** did some blasting and stripping on an area of ultramafic rocks to the north of Grid 'E'.

In 1993, **Noranda Exploration Co. Ltd.** carried out magnetic and HLEM surveys over a 10 unit claim directly to the southeast of the present survey area. The surveys were conducted along east-west grid lines spaced every 200 metres. The magnetic survey was run with a total field proton, precession magnetometer and the HLEM survey was run with a coil separation of 100 feet at frequencies of 222, 888 and 3555 Hertz. The EM survey outlined three zones of poor conductivity which strike north-south, coincident with lakes on the property.

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	TIMMINS/ERMES FILES
1971	Texas Gulf Sulphur Co. Limited	Mag, HLEM		41O08NW0002
1972	John Godin	Trenching		41O08NW5003
1993	Noranda Exploration Co. Ltd.	Mag, HLEM		41O08NW0001
2004	Wallbridge Mining Company Limited	Amag, AEM		T-5032

Table 2. Summary of previous assessment work.

In 2004, **Wallbridge Mining Company Limited** flew magnetic and VTEM surveys over two blocks in the area. One block, centered in the northeast corner of Joffre Township, was covered with flight lines spaced every 50 metres at an orientation of N55°E. The second block, in Edith and Cavell Townships, was flown with lines spaced every 100 metres at an orientation of N55°E.

SURVEY DESCRIPTIONS

The grid on the property consists of lines oriented N45°E, spaced every 50 metres and picketed every 25 metres.

The horizontal loop EM survey was carried out with the Apex Parametrics MaxMin I-5. This instrument measures the in-phase and quadrature components of the secondary field as a percentage of the primary field; the depth of penetration is approximately one half of the coil separation. Readings were taken every 25 metres using a coil separation of 150 metres and frequencies of 222, 444, 888 and 1777 Hertz. A total of 304 stations were sampled along 9.6 kilometres of line.

The coils were kept co-planar throughout the survey; tilts were measured with a Suunto clinometer where necessary. There were no corrections made for short cable.

EM RESULTS

The results of the HLEM survey are profiled on maps 1 to 4 at a scale of 1:2500; the profile scale used for all of the frequencies is 1 cm = 20 %. The results using 444 Hertz are also presented in Figure 2 at a scale of 1:7,500.

Anomaly 'A' strikes north-south between 150 North on Line 250 East and 0+05 South on Line 450 East for a strike length of approximately 300 metres. The source of the anomaly is a broad area of very good conductivity at a depth which varies from 40 metres on Lines 400 and 450 East to 70 metres on Lines 250 to 350 East (Table 3). The profiles on Lines 0 North and 450 East suggest that the conductivity consists of two zones rather than one wide zone. The dip is close to vertical, except for Line 450 East where an east dip is indicated.

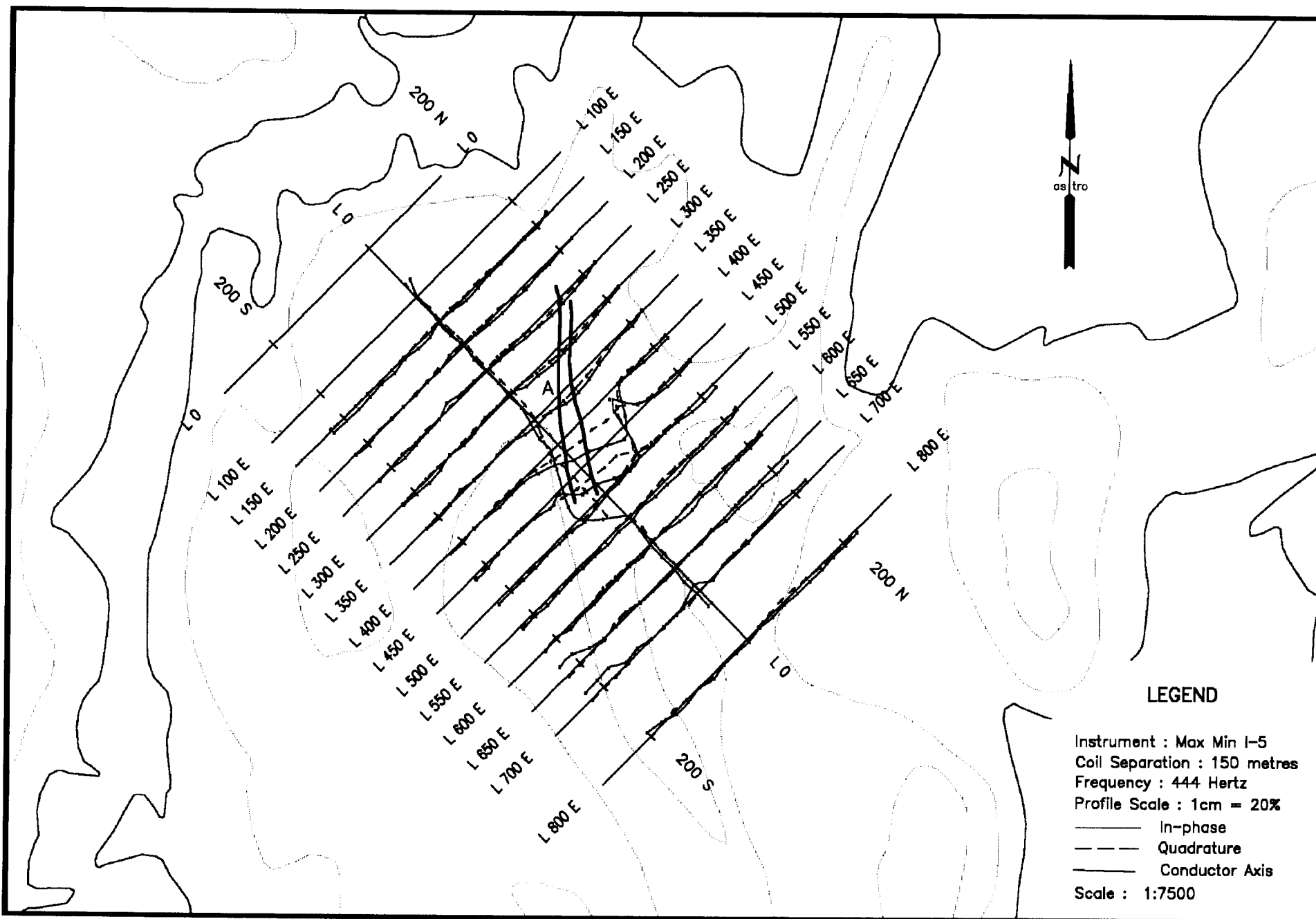


Figure 2 : HLEM Results, 444 Hertz, Grid 'E'

LINE	ANOMALY CENTER	ANOMALY WIDTH (m)	IP (%)	Q (%)	DEPTH (m)	CONDUCTIVITY THICKNESS (mhos)	COMMENTS
250 E	150 N	narrow	1	1	75	14	
300 E	112.5 N	25	2	2	75	14	
350 E	62.5 N	25	4	3	77	23	
400 E	27.5 N	37.5	16	7	48	53	
450 E	0+05 S	37.5	13	10	42	21	E dip
0 N	445 E	60	13	5	59	64	

Table 3: Anomaly 'A' Interpretation, 444 Hz, 150 metre coil separation.

Jan 19, 2006
Date


D. Londry
Timmins Geophysics Ltd.

REFERENCES

Giblin P.E., Leahy E.J., Thurston P.C., Siragusa G.M. and Sage R.P.

1977: Geological Compilation of the Rocky Island-Biscotasing Sheet, Districts of Algoma and Sudbury; Ontario Geological Survey Prelim. **Map P.237** (1977 Revision), Geological Compilation Series, scale 1:126,720 or 1 inch to 2 miles. Compilation by P.E. Giblin, E.J. Leahy, R.P. Sage, G.M. Siragusa and P.C. Thurston 1970-71, 1974-76.

Giblin P.E., Leahy E.J., and Robertson, J.A.

1979: Sault Ste. Marie-Elliot Lake Sheet, Districts of Algoma, Manitoulin and Sudbury; Ontario Geological Survey, **Map 2419**, Geological Compilation Series, Scale 1 inch to 4 miles.

Rogers, D.P.

1962: Geology of the Biscotasing area, District of Sudbury; Ontario Department of Mines Geological Report No. 7. Accompanied by **Map 2013** at a scale of 1 inch to 1 miles.