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MAGNETIC

AND

HORIZONTAL LOOP ELECTROMAGNETIC

SURVEYS

FOR

BRINEX LIMITED

MANITOUWADGE PROJECT

GRID: LOWER BOBCAT LAKE, A-E-6

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Peter T. George, P.Eng. Consulting Geologist July 1978

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GRID: BOBCAT LAKE, A-E-6

INTRODUCTION:

The following report describes the results of ground geophysical surveys completed for Brinex Limited, Manitouwadge Project, Ontario. Line cutting and geophysical surveys were completed during the period June 1 to June 30, 1978.

PROPERTY DESCRIPTION:

The property consists of sixteen contiguous, unpatented mining claims designated as follows:

P501182 to P501191 inclusive P501208, P501209 P516742 to P516744 inclusive P516920

PROPERTY LOCATION AND ACCESS:

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The property is located in Lessard Township, Porcupine Mining Division, Ontario, approximately 4900 feet west southwest of Bobcat Lake. Access to the property is via aircraft from Hornepayne, Ontario, a distance of approximately four air miles.

GEOPHYSICAL SURVEYS:

Mangetic and horizontal loop electromagnetic surveys were completed on the property.

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The magnetic survey was carried out utilizing a Scintrex MP-2 Proton Magnetometer capable of reading total field values to an accuracy of \pm 1 gamma. Readings were taken at 100 foot intervals on all base lines and cross lines. Base stations were established at 100 foot intervals along all base lines and tie lines. Diurnal variation was corrected for by tieing in to the base stations at time intervals generally less than one half hour and in no case greater than one hour.

The horizontal loop electromagnetic survey was carried out utilizing an Apex Parametrics Max Min II HEM. The HEM unit measures the in-phase and quadrature components of the secondary field developed in the vicinity of conductive material. The measurements are accurate to \pm 1%. Readings were taken at 444 Hz. and 1777 Hz. frequencies utilizing a 400 foot reference cable.

Conductivity-width and depth of overburden determinations are presented on the 444 Hz. HEM maps.

REGIONAL GEOLOGY:

The Manitouwadge-Hornepayne area is underlain by Archean metavolcanic and metasedimentary rocks and high grade metamorphic rocks of probably metavolcanic and metasedimentary origin. Regional deformation, metamorphism, and granitic intrusive activity occurred during the Kenoran orogeny. In the Manitouwadge area base metal mineralization occurs within felsic volcanic rocks. A zone of iron formation occurs near the top of the felsic volcanic unit. The iron formation can be traced for some distance to the east and west of the Manitouwadge area utilizing aeromagnetic data. The iron formation generally outlines the stratigraphic interval having the greatest potential in the area for base metal mineralization.

PROPERTY GEOLOGY AND PREVIOUS WORK:

No previous exploration work has been carried out in the vicinity of the property.

The property is probably underlain by migmatitic biotitequartz-feldspar gneiss.

GEOPHYSICAL RESULTS:

MAGNETIC SURVEY (Map 4C, in pocket)

Maximum magnetic relief on the property is 14,100 gammas. The magnetic data displays very high magnetic relief except in the north central sector of the property where the relief is generally less than 500 gammas.

The magnetic relief is caused by a series of narrow, elongate magnetic anomalies. The anomalies have an east-west strike direction and are probably due to magnetite bearing horizons within gneissic rocks.

Depths to bedrock based on the magnetic data in the vicinity of the HEM anomalies are as follows: Line/Station Depth to Bedrock 4W/11N 120 16W/12+50N 20 28W/15N 30 00/23+50N 75

ELECTROMAGNETIC SURVEY (Maps 4A, 4B, 4D, 4E, in pocket)

Three electromagnetic anomalies were located during the survey.

Anomaly A

Anomaly A occurs from line 32E to line 28W and probably extends off the property to the west. The zone displays intermittent response at 444 Hz. The response at 444 Hz outlines a thin to 130 feet wide zone that varies in conductivity-width from very low to 240 mhos along strike. Depth of burial varies from 20 to 240 feet.

Detailed coverage of Anomaly A on lines 8W, 20W, 20E, and 24E provides the following data:

Line/Station	Width (Feet)	Conductivity- Width (Feet)	Depth of Burial
8W/12+25N	25	185	20
20W/16N	80	165	20
20E/12+50N	20	230	40
24E/12+50N	60	260	10

The conductive zone occurs along the north flank of a 2000 to 5000 gamma magnetic anomaly.

Anomaly B

Anomaly B occurs from line 4W to line 28W and may extend off the property to the west. The zone displays intermittent response at 444 Hz. The 444 Hz/400 foot cable data outlines a thin conductive zone with a conductivity-width of 0 to 115 mhos and a depth of burial of 100 to 230 feet.

Detailed coverage on line 20W with a 100 foot reference cable indicates a conductive zone 50 feet wide with a conductivitywidth of 230 mhos and a depth of burial of 15 feet.

The zone is non magnetic.

Anomaly C

Anomaly C occurs from line 8W to line 24E. The 444 Hz/400 foot cable data indicates a conductive zone that varies in width from thin to 40 feet with a conductivity-width of 18 to 173 mhos and a depth of burial of 50 to 250 feet.

Detailed coverage of Anomaly C on lines 0 and 4E indicates a conductive zone 30 feet wide with a conductivity-width of 50 to 140 mhos and a depth of burial of 35 to 50 feet.

The conductive zone occurs along the south flank of a 2000 to 9000 gamma magnetic anomaly.

CONCLUSIONS AND RECOMMENDATIONS:

The property is probably underlain by a sequence of migmatitic biotite-quartz-feldspar gneisses. The elongate magnetic

anomalies on the property are probably due to magnetite bearing meta-iron formation.

Three electromagnetic anomalies were located during the survey. All warrant follow-up by diamond drilling. Initial drill holes should be located as follows:

Anomaly	Line/Station	Bearing	Dip
A	20W/15+75N	180 ⁰	-50 ⁰
В	20W/15+75N	0 ⁰	-50 ⁰
с	4E/21+00N	00	-50 ⁰

Respectfully submitted,

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Peter T./George, P.Eng. Consulting Geologist



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MAGNETIC

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HORIZONTAL LOOP ELECTROMAGNETIC

SURVEYS

FOR

BRINEX LIMITED

MANITOUWADGE PROJECT

GRID: LINBARR LAKE, A-E-1,2

Peter T. George, P.Eng. Consulting Geologist

July 1978

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GRID: LINBARR LAKE, A-E-1,2

INTRODUCTION:

The following report describes the results of ground geophysical surveys completed for Brinex Limited, Manitouwadge Project, Ontario. Line cutting and geophysical surveys were completed during the period June 1 to June 30, 1978.

PROPERTY DESCRIPTION:

The property consists of eight contiguous, unpatented mining claims designated as follows:

P501192 to P501197 inclusive

P516741, P516740

PROPERTY, LOCATION AND ACCESS:

The property is located in Foch Township, Porcupine Mining Division, Ontario, approximately 800 feet west of Linbarr Lake. Access to the property is via aircraft from Hornepayne, Ontario, a distance of approximately ten air miles.

GEOPHYSICAL SURVEYS:

Mangetic and horizontal loop electromagnetic surveys were completed on the property.

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The magnetic survey was carried out utilizing a Scintrex MP-2 Proton Magnetometer capable of reading total field values to an accuracy of \pm 1 gamma. Readings were taken at 100 foot intervals on all base lines and cross lines. Base stations were established at 100 foot intervals along all base lines and tie lines. Diurnal variation was corrected for by tieing in to the base stations at time intervals generally less than one half hour and in no case greater than one hour.

The horizontal loop electromagnetic survey was carried out utilizing an Apex Parametrics Max Min II HEM. The HEM unit measures the in-phase and quadrature components of the secondary field developed in the vicinity of conductive material. The measurements are accurate to \pm 1%. Readings were taken at 444 Hz. and 1777 Hz. frequencies utilizing a 400 foot reference cable.

Conductivity-width and depth of overburden determinations are presented on the 444 Hz. HEM maps.

REGIONAL GEOLOGY:

The Manitouwadge-Hornepayne area is underlain by Archean metavolcanic and metasedimentary rocks and high grade metamorphic rocks of probably metavolcanic and metasedimentary origin. Regional deformation, metamorphism, and granitic intrusive activity occurred during the Kenoran orogeny. In the Manitouwadge area base metal mineralization occurs within felsic volcanic rocks. A zone of iron formation occurs near the top of the felsic volcanic unit. The iron formation can be traced for some distance to the east and west of the Manitouwadge area utilizing aeromagnetic data. The iron formation generally outlines the stratigraphic interval having the greatest potential in the area for base metal mineralization.

PROPERTY GEOLOGY AND PREVIOUS WORK:

No previous exploration work has been carried out in the vicinity of the property.

The property is underlain by migmatitic biotite-quartzfeldspar gneiss with approximately 50% granitic and pegmatitic material. Gneissosity on the property has a generally eastwest strike with steep dips.

GEOPHYSICAL RESULTS:

MAGNETIC SURVEY (Map 1C, in pocket)

Maximum magnetic relief on the property is 4,270 gammas. The magnetic data displays generally high magnetic relief north of the base line due to the occurrence of a number of narrow, elongate, east-west trending magnetic anomalies. South of the base line the magnetic data displays moderate to low magnetic relief with the exception of a 500 to 1000 gamma magnetic anomaly that crosses the south edge of the property.

The narrow magnetic anomalies are probably due to magnetite bearing horizons within the gneisses that underlie the property.

Depth to bedrock estimates for a number of areas of the property are as follows:

Line/Station	Depth to Bedrock (feet)
12W/6N	75
24W/5N	30
32W/6N	125
4W/7S	50
00/175	50
20W/16S	50
36W/17+50S	80

The depth to bedrock estimates obtained from the magnetic data is in general approximately 50 percent less than the depth estimates obtained from the 444 Hz. HEM data (Map 1A, in pocket).

ELECTROMAGNETIC SURVEY (Maps 1A, 1B, 1D, 1E, in pocket):

Two electromagnetic anomalies were located during the survey.

ANOMALY A

Anomaly A occurs from line 12W to 20W. The 444 Hz data for 400 foot and 600 foot cables indicates a conductive zone up to 80 feet wide with a depth of burial of 140 to 220 feet.

The 200 foot cable data indicates the presence of two thin, parallel conductors with a depth of burial of 40 to 60 feet. The shorter cable data provides better definition and is probably a better indication of the nature of the conductor.

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The depth estimates correlate closely with those obtained from the magnetic data.

An 1800 to 3800 gamma magnetic anomaly occurs along the south flank of the HEM anomaly.

ANOMALY B

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Anomaly B crosses the south part of the property and probably extends off the property to the east and west.

The best response is on line 8W. Detailed HEM work utilizing a 200 foot cable indicates a conductive zone 60 feet wide with a depth of burial of 60 feet and a conductivity-width in excess of 350 mhos.

The 400 foot cable data indicates a zone that varies from thin to 60 feet wide, with a depth of burial of 115 to 240 feet. The conductivity-width data ranges from 18 to 135 mhos.

The conductive zone is basically non magnetic with the exception of lines 4W and 16W where there are weak (50 to 125 gamma) coincident magnetic anomalies.

CONCLUSIONS AND RECOMMENDATIONS:

The property is underlain by migmatitic biotite-quartzfeldspar gneiss. The narrow, elongate magnetic anomalies that occur on the property are probably due to magnetite bearing metairon formation.

Anomaly A occurs along the north flank of an inferred iron formation. The conductivity is probably due to two thin bands of sulphides within or immediately adjacent to the iron formation.

Anomaly B is non-magnetic and probably is caused by a thin sulphide horizon. The sulphide horizon may contain some pyrrhotite in the vicinity of lines 4W and 16W.

It is recommended that one drill hole be planned to evaluate Anomaly B. The hole should be spotted on line 8W at station 9+50S bearing true north at a dip of -50° .

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Respectfully submitted,

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Peter T/George, P.Eng. Consulting Geologist



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MAGNETIC AND HORIZONTAL LOOP ELECTROMAGNETIC SURVEYS FOR BRINEX LIMITED

MANITOUWADGE PROJECT

GRID: VISON LAKE, A-E-4

Peter T. George, P.Eng., Consulting Geologist July 1978

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GRID: VISON LAKE, A-E-4

INTRODUCTION:

The following report describes the results of ground geophysical surveys completed for Brinex Limited, Manitouwadge Project, Ontario. Line cutting and geophysical surveys were completed during the period June 1 to June 30, 1978.

PROPERTY DESCRIPTION:

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The property consists of five contiguous, unpatented mining claims designated as follows:

P501198 to P501201 inclusive P516917

PROPERTY LOCATION AND ACCESS:

The property is located in Lessard Township, Porcupine Mining Division, Ontario, approximately 4000 feet north of Vison Lake.

Access to the property is via aircraft from Hornepayne, Ontario, a distance of approximately eight air miles.

GEOPHYSICAL SURVEYS:

Mangetic and horizontal loop electromagnetic surveys were completed on the property.

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The magnetic survey was carried out utilizing a Scintrex MP-2 Proton Magnetometer capable of reading total field values to an accuracy of \pm 1 gamma. Readings were taken at 100 foot intervals on all base lines and cross lines. Base stations were established at 100 foot intervals along all base lines and tie lines. Diurnal variation was corrected for by tieing in to the base stations at time intervals generally less than one half hour and in no case greater than one hour.

The horizontal loop electromagnetic survey was carried out utilizing an Apex Parametrics Max Min II HEM. The HEM unit measures the in-phase and quadrature components of the secondary field developed in the vicinity of conductive material. The measurements are accurate to \pm 1%. Readings were taken at 444 Hz. and 1777 Hz. frequencies utilizing a 400 foot reference cable.

Conductivity-width and depth of overburden determinations are presented on the 444 Hz. HEM maps.

REGIONAL GEOLOGY:

The Manitouwadge-Hornepayne area is underlain by Archean metavolcanic and metasedimentary rocks and high grade metamorphic rocks of probably metavolcanic and metasedimentary origin. Regional deformation, metamorphism, and granitic intrusive activity occurred during the Kenoran orogeny. In the Manitouwadge area base metal mineralization occurs within felsic volcanic rocks. A zone of iron formation occurs near the top of the felsic volcanic unit. The iron formation can be traced for some distance to the east and west of the Manitouwadge area utilizing aeromagnetic data. The iron formation generally outlines the stratigraphic interval having the greatest potential in the area for base metal mineralization.

PROPERTY GEOLOGY AND PREVIOUS WORK:

No previous exploration work has been carried out in the vicinity of the property.

The property is underlain dominantly by biotite-quartzfeldspar gneiss. A zone of rusty weathering biotite gneiss crosses the north part of the property. Gneissosity on the property has a generally east-west strike with steep dips.

GEOPHYSICAL RESULTS:

MAGNETIC SURVEY (Map 2C, in pocket)

Maximum magnetic relief on the property is 4000 gammas. The magnetic data displays moderate to high magnetic relief with a definite east-west to east-southeast strike trend. A prominent 2000 to 4000 gamma anomaly crosses the central part of the property.

The narrow, elongate magnetic anomalies are probably due to magnetite bearing horizons within the gneissic rocks that underlie the property.

Depth to bedrock estimates for the central sector of the property are as follows:

Line/Station	Depth to Bedrock (feet
4E/0+50S	80
12E/3+50S	110
20E/3+00S	30

ELECTROMAGNETIC RESULTS (Maps 2A, 2B, 2D, in pocket)

One electromagnetic anomaly was located during the survey. The anomaly crosses the central part of the property and probably extends off the property to the east and west.

Coverage of the property (Maps 2A and 2B) utilizing a 400 foot reference cable indicates a conductive zone that is generally thin except in the vicinity of lines 12E, 16E, and 20E where the zone is 40 feet wide.

Detailed coverage on line 16E (Map 2D, in pocket) indicates a conductive zone 35 feet wide with a depth of burial of approximately 20 feet and a conductivity-width in excess of 230 mhos.

The anomaly is probably caused by a sulphide horizon within or adjacent to a magnetite bearing meta-iron formation. The electromagnetic anomaly correlates with a 2000 to 4000 gamma magnetic anomaly.

CONCLUSIONS AND RECOMMENDATIONS:

The property is underlain by biotite-quartz-feldspar gneiss. The linear, narrow, magnetic anomalies that occur on the property are probably due to magnetite bearing meta-iron formation.

The electromagnetic anomaly on the property is probably due to a sulphide bearing horizon within or adjacent to magnetite bearing iron formation.

Because of the close association of base metal mineralization and iron formation in the Manitouwadge area, the electromagnetic anomaly should be tested by a drill hole. The initial drill hole should be collared on line 16E at station 5+00S, bearing true north at a dip of -50° .

Respectfully submitted,

Peter T. George, P.Eng. Consulting Geologist

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SURVEYS

FOR

BRINEX LIMITED

MANITOUWADGE PROJECT

GRID: VISON LAKE, A-E-5

Peter T. George, P.Eng., Consulting Geologist July 1978

GRID: VISON LAKE; A-E-5

INTRODUCTION:

The following report describes the results of ground geophysical surveys completed for Brinex Limited, Manitouwadge Project, Ontario. Line cutting and geophysical surveys were completed during the period June 1 to June 30, 1978.

PROPERTY DESCRIPTION:

The property consists of eight contiguous, unpatented mining claims designated as follows:

P501202 to P501207 inclusive P516918, P516919

PROPERTY LOCATION AND ACCESS:

The property is located in Lessard Township, Porcupine Mining Division, Ontario, approximately 2600 feet south of Vison Lake. Access to the property is via aircraft from Hornepayne, Ontario, a distance of approximately eight air miles.

GEOPHYSICAL SURVEYS:

Mangetic and horizontal loop electromagnetic surveys were completed on the property.

The magnetic survey was carried out utilizing a Scintrex MP-2 Proton Magnetometer capable of reading total field values to an accuracy of \pm 1 gamma. Readings were taken at 100 foot intervals on all base lines and cross lines. Base stations were established at 100 foot intervals along all base lines and tie lines. Diurnal variation was corrected for by tieing in to the base stations at time intervals generally less than one half hour and in no case greater than one hour.

The horizontal loop electromagnetic survey was carried out utilizing an Apex Parametrics Max Min II HEM. The HEM unit measures the in-phase and quadrature components of the secondary field developed in the vicinity of conductive material. The measurements are accurate to \pm 1%. Readings were taken at 444 Hz. and 1777 Hz. frequencies utilizing a 400 foot reference cable.

Conductivity-width and depth of overburden determinations are presented on the 444 Hz. HEM maps.

REGIONAL GEOLOGY:

The Manitouwadge-Hornepayne area is underlain by Archean metavolcanic and metasedimentary rocks and high grade metamorphic rocks of probably metavolcanic and metasedimentary origin. Regional deformation, metamorphism, and granitic intrusive activity occurred during the Kenoran orogeny.

In the Manitouwadge area base metal mineralization occurs within felsic volcanic rocks. A zone of iron formation occurs near the top of the felsic volcanic unit. The iron formation can be traced for some distance to the east and west of the Manitouwadge area utilizing aeromagnetic data. The iron formation generally outlines the stratigraphic interval having the greatest potential in the area for base metal mineralization.

PROPERTY GEOLOGY AND PREVIOUS WORK:

No previous exploration work has been carried out in the vicinity of the property.

The property is underlain by granitic gneiss, biotitehornblende-quartz-feldspar gneiss, and amphibolitic to chloritic mafic volcanic rocks. A sulphide bearing gossan zone occurs within pegmatitic biotite-quartz-feldspar gneiss in the northwest sector of the property.

GEOPHYSICAL RESULTS:

MAGNETIC SURVEY (Map 3C, in pocket)

Maximum magnetic relief on the property is 9850 gammas. The magnetic data displays high magnetic relief over the whole property. The data indicates an east-west strike direction for the bedrock strata.

The numerous narrow, elongate magnetic anomalies present on the property are probably due to magnetite bearing horizons within the gneisses.

A north trending zone of very high magnetic relief occurs in the vicinity of line 36E. Readings on the line were double checked on two separate days and are valid. No geological explanation is available for this discordant feature.

Depth to bedrock estimates based on the magnetic data in the vicinity of HEM Anomaly A are as follows:

Line/Station	Depth to bedrock (feet)
12E/5N	40
20E/5N	35
28E/7N	70

ELECTROMAGNETIC RESULTS (Maps 3A, 3B, in pocket)

One electromagnetic anomaly occurs on the property from line 4E to line 36E. The zone is non magnetic but occurs along the north flank of a 2000 to 6000 gamma magnetic anomaly.

The 444 Hz HEM data indicates a zone 30 to 180 feet wide with a conductivity-width of 12 to 185 mhos. Depth of burial varies from 0 to 115 feet. The zone dips to the south at 75 to 80 degrees.

The best response is on line 8E where the data indicates a zone 50 feet wide with a conductivity-width of 185 mhos and a depth of burial of 75 feet.

The conductivity is due to a massive sulphide zone on the north flank of a magnetite bearing meta-iron formation. A rusty weathering sulphide showing occurs in the vicinity of the conductor on line 12E.

CONCLUSIONS AND RECOMMENDATIONS:

The property is underlain by biotite-quartz-feldspar gneiss and amphibolitic to chloritic mafic volcanic rocks. The elongate magnetic anomalies on the property are probably due to magnetite bearing meta-iron formation.

The magnetic anomaly that occurs along the south flank of HEM Anomaly A is probably due to iron formation and occurs along the contact between mafic volcanic rocks and pegmatitic to granitic gneisses. This contact may represent a mafic volcanicfelsic volcanic contact.

Anomaly A should be given high priority for drilling because of the similarity of the geological environment with that at Manitouwadge and because of the known occurrence of sulphides in the conductive zone.

An initial hole to test the zone should be collared on line 12E at station 8+00N bearing true south at a dip of -50° .

Respectfully submitted,

Peter T. George, P.Eng. Consulting Geologist



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TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) _______ CEOPHY SICAL LESSARD Township or Area_ MINING CLAIMS TRAVERSED BRINEX ETD. Claim Holder(s)___ List numerically A. Theriault Survey Company____ GEDEX ETD. Author of Report N.T. GEORGE, P. End. (number) Address of Author CEOEX LTD., P.O. Box 70 mmin S (linecutting to office) Covering Dates of Survey_ Total Miles of Line Cut_ 50118 SPECIAL PROVISIONS DAYS attach **CREDITS REQUESTED** per claim Geophysical 40 insufficient, -Electromagnetic_ ENTER 40 days (includes 50/189 20 -Magnetometer_ line cutting) for first -Radiometric_ survey. 501 1 pace -Other_ ENTER 20 days for each 9.501191 additional survey using Geological_ same grid. Geochemical. AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) 1/3 not Magnetometer_ Electromagnetic. Radiometric (enter days per claim) 11 SIGNATURE: 516744 '|v13 1920 レーン Qualifications 62 3 Res. Geol. **Previous Surveys** File No. Туре Date Claim Holder TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

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GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s)	YSICAL	
Township or Area Foch		MINING CLAIMS TRAVERSED
Claim Holder(s) BRINGY LIMI	TKR	List numerically
A. THERIAUL		
Survey Company GEOFY L	INTED	F 501192
Author of Report P.T. G.K.o	ROF , R. Eng.	(prefix) (number)
Address of Author SEOKy 170.	Ro. Box To , TIMMINS	
Covering Dates of Survey	4 - July 15/78	F \$01/94
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SPECIAL PROVISIONS CREDITS REQUESTED	DAYS Geophysical per claim	1/4 R 501197 V
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ENTER 40 days (includes line cutting) for first	-Magnetometer 20	74 R. 516741 7B
survey.	-Radiometric	
ENTER 20 days for each	-Other	
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same grid.	Geochemical	
AIRBORNE CREDITS (Special provisio	on credits do not apply to airborne surveys)	
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GEOPHYSICAL TECHNICAL DATA

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ECTROMAGNETIC	Instrument Coil configuration Coil separation Accuracy Method:	PEX VAR. H.E.m 400' ± /°/. □ Fixed	transmitter	Max Min II Shoot back	ne 🗌 Parallel line
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	Elevation accuracy	·			
	Instrument				
	Method 🔲 Time	e Domain		🔲 Frequency Do	main
	Parameters – On t	ime		Frequency	
M	– Off t	time		Range	
VII	– Dela	v time			
STI	– Integ				
ESI	Power			_	
N N	Electrode array				
	Electrode spacing				
I	Type of electrode				
	-/r				

INDUCED POLARIZATION DESISTIVITY



OFFICE USE ONLY

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Ministry of Natural Resources

File_

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Surve	:y(s)	GEOP	HYSICAL	
Township or A	Area	LESSAR	D	
Claim Holder(s)	BRINKY	LTD.	List numerically
	Å	2. THE	PIANET	EIVI MAG
Survey Compa	any GA	TORY L	TD	P. 501198 V
Author of Rep	port Tr	TGEOR	CE . F. Eng.	(prefix) (number)
Address of Au	thor GE	OEX LTD	., P.O. Box 70 TIMM	5
Covering Date	s of Surv	ey June	1 - auly 15, 1978	1 8. 501200
		1 y	(linecrating to office)	14 P. 50/201
Total Miles of	Line Cut	7.0	/3 •	- 23 154917 TB met
				
SPECIAL P CREDITS R	ROVISIC	DNS FED	DAYS per claim	四日 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	LLQ0101		Geophysical	4
ENTER 40	davs (inc	ludes	-Electromagnetic 40	
line cutting)	for first		–Magnetometer ZO	
survey.			-Radiometric	
ENTER 20	days for o	each	-Other	
additional s	urvey usi	ng	Geological	
same grid.			Geochemical	
AIRBORNE (PEDITS	(Special provid	ion credite do not annly to airborne surve	
Magnetometer		Flectromage	etic P adiometric -	,
Magnetometer		enter d	ays per claim)	
$ \square $	·	1	how. Vilas	
DATE:	~ //	SIGNA کے	TURE: Author of Report or Age	18
Res. Geol.		Qualif	ications	
Previous Surve	evs	~		
File No.	Туре	Date	Claim Holder	
		• • • • • • • • • • • • • • • • • • • •		
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		• • • • • • • • • • • • • • • • • • • •		
 		••••••		
				TOTAL CLAIMS 5

GEOPHYSICAL TECHNICAL DATA

(GROUND SURVEYS -	- If more than	one survey, spe	cify data for each t	ype of survey	
		HEM	164			
1	Number of Stations	May.	265	Number	of Readings	
S	station interval	100''		Line spa	cing	
I	rofile scale	/"=	20%	F	8	
	Contour interval	100 X	,			
		Ų				
r N	Instrument	intras 1	1P.2 53	ofon klag.	· •	
III	Accuracy – Scale con	nstant	±1 an	mma	•	
GNI	Diurnal correction m	ethod 5	ne the	tion along	B.L .	
MA	Base Station check-ir	ı interval (hour	(s) 0. 5	- 1.0 HAS	•	
	Base Station location	i and value	· · / 00	60513	•	
			/			
			<u>_</u>		-	
<u>0</u>	Instrument	Goen Vi	renetries	Mary-M	in 11	
IET	Coil configuration	.	K. M.		<u></u>	······································
N C	Coil separation	-/	,	·····		
TROM	Accuracy	± / %	1		·	
	Method:	□ Fixed	transmitter	Shoot back	In line	Parallel line
EC	Frequency	a/a/a/ H2	+ 1777 H	2		
E	D	1. A.c.	1 Burlar	(specify V.L.F. station)	+1	Jun Kill
	Parameters measured	/////////	y your y	are com		un jung
	T				ľ	Δ
	Instrument					
Z	Scale constant					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
VL	Corrections made	•,·,··,···,···,···			na ann ann agu at tarr an an an tarthair an an tarthair an an tarthair	12 - 11 Konstantin an analasi (1277 - 1128
GR/					<u> </u>	
•	Base station value an	d location			·······	·
	Elevation accuracy_		,			
	In strum on t					
1	Mothod Time I)		·	Frequency Domain	
	<u>Method</u> I lime L	Jomani		، لـــا ا	Frequency Domain	
ы	Parameters – Off tim	.c		·	Pange	
ΙI,		10			Kange	
NII S	- Delay	tion time				
ESI	– integra					
R	Flootrodo orrest					
	Electrode array		<u> </u>	· · · · · · · · · · · · · · · · · · ·		
I	Type of electrode				, <u></u> ,,,,, _	· · · · · · · · · · · · · · · · · · ·
	- Type of electrone					

INDUCED POLARIZATION RESISTIVITY



OFFICE USE ONLY

Ministry of Natural Resources

File.

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOPHY SiCAL SSARD Township or Area_ MINING CLAIMS TRAVERSED LTD. SRINEY. Claim Holder(s)_ List numerically Ę, m Terianti 202 (EOE 275. Survey Company_ (number) Author of Report 17. Address of Author ETD. 5.6. VSer 76 h,is (linecusting to office) Covering Dates of Survey alum 205 Total Miles of Line Cut. 1206 Ľ. SPECIAL PROVISIONS DAYS Z 6' insufficient, attach **CREDITS REQUESTED** per claim Geophysical 46 -Electromagnetic. ENTER 40 days (includes 20 -Magnetometer_ line cutting) for first -Radiometric_ survey. space ENTER 20 days for each -Other__ additional survey using Geological_ same grid. Geochemical AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys) Magnetometer Electromagnetic_ Radiometric (enter days per claim) 78_SIGNATURE: DATE Author of Report or Agent Res. Geol. Qualifications_ **Previous Surveys** File No. Claim Holder Date Туре ĥ, TOTAL CLAIMS.

GEOPHYSICAL TECHNICAL DATA

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-	<u>GROUND SURVEYS</u> If more than one survey,	specify data for each type of survey
	1 H.E.M. 236	
1	Number of Stations 349	Number of Readings
5	Station interval	Line spacing 4/00 '
I	Profile scale / " = 2.0%	
C	Contour interval / 60 }	
MAGNETIC	Instrument <u>Science</u> <u>H.S.</u> Accuracy – Scale constant <u><u>t</u></u> Diurnal correction method <u>Base Station check-in interval (hours)</u> Base Station location and value <u>0</u>	Vinton Mag. gamma in along B.L. 5-1.0 Hrs 0/00 60570
IETIC	Instrument Apex Varamer Coil configuration H.E.n.	ting Max. This I
NGN	Coil separation 4/00'	
W	Accuracy \pm / %	
TRO	Method:	Shoot back I'In line Parallel line
EC	Frequency	
떼	Parameters measured JaPhase + Quadr	(specify V.L.F. station) t. are comparing fully
	Instrument	
Ъ	Scale constant	
VIT	Corrections made	
GRAVIT	Corrections made Base station value and location	
<u>GRAVIT</u>	Corrections made Base station value and location Elevation accuracy	
<u>GRAVIT</u>	Corrections made Base station value and location Elevation accuracy	
<u>GRAVIT</u>	Corrections made Base station value and location Elevation accuracy Instrument	
GRAVIT	Corrections made Base station value and location Elevation accuracy Instrument Method Time Domain	 Frequency Domain
GRAVIT	Corrections made Base station value and location Elevation accuracy Instrument <u>Method</u> [] Time Domain Parameters – On time	Frequency Domain Frequency
CY GRAVIT	Corrections made Base station value and location Elevation accuracy Instrument Method Time Domain Parameters On time - Off time	Frequency Domain Frequency Range
IVITY GRAVIT	Corrections made Base station value and location Elevation accuracy Instrument <u>Method</u> [] Time Domain Parameters - On time - Off time - Delay time	Frequency Domain Frequency Range
ISTIVITY	Corrections made Base station value and location Elevation accuracy Instrument <u>Method</u> [] Time Domain Parameters - On time - Off time - Delay time _ Integration time	Frequency Domain Frequency Range
RESISTIVITY	Corrections made Base station value and location Elevation accuracy Instrument <u>Method</u> [] Time Domain Parameters – On time – Off time – Delay time – Integration time	Frequency Domain Frequency Range
RESISTIVITY	Corrections made Base station value and location Elevation accuracy Instrument Method Time Domain Parameters - On time - Off time - Delay time - Integration time Electrode array	Frequency Domain Frequency Range
RESISTIVITY	Corrections made Base station value and location Elevation accuracy Instrument <u>Method</u> Time Domain Parameters - On time - Off time - Delay time - Integration time Electrode array Electrode spacing	Frequency Domain Frequency Range

INDUCED POLARIZATION RESISTIVITY







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LEGEND

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	+,-
Conductor Axis	-*-
Conductor Width	
Conductivity Thickness (mhos)/Depth Estimate (m)	-
In-Phase Profile	
Quadrature Profile	1
Profile Scale : I Inch = 20%	
Instrument : Apex Parametrics Maxmin II	
Cable: 400 feet	
Claim Past Road	5
	- ((

Claim Post		Road	1
Witness Post		Fence	MM
Creek	· · ·	Hydro Line	
Swamp	*	Building	
Lake	\bigcirc	Drill Hole	\sim
Trail		Outcrop	\bigcirc



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(705) 267-3990

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Conductor Axis Conductor Width Conductivity Thicknes In-Phase Profile Quadrature Profile Profile Scale : | Ind Instrument : Apex P

Witness Pos Creek Swamp

CLIENT · PROJECT GRID

Scale: | Inch = 200

Covering Dates: Field Office

GEOEX Li

Exploration Servi

,	
LOCATION MAP	Scale :
LEGEND	
Axis Width	
Thickness (mhos)/Depth Estim	ate (m)
Profile	
ker⊨ Ifinch = 20%/	/
Apex Parametrics Maxmin II	·
Cable: AS SHOWN	
net	Road =
Post -	Fence
	Building D
	Drill Hole 0
	AREA
A.E. 1,2 DETAU	
H.E.M. SUR	VEY
ch = 200 Feet.	Drafted By: J. Hol
tes: Field June 4-30,1978 Office July 5-15,1978	Consultant: P.T. George
•	Drawing Number
X Limited	P.O. Box 70,
on Services and Management	(705) 267-3990
2.2	2864



LOCATION MAP Scole:
LEGEND
Conductor Axis
Conductor Width
Conductivity Thickness (mhos)/Depth Estimate (m)
in-Phase Profile
Quadrature Profile
Profile Scale : 1 Inch = 20%
instrument Apex Parametrics Maxmin II
Cable AS SHOWN
Claim Post
Creek Hydro Line
Swamp - Building -
Lake C Drill Hole O Trall Outcrop C
CLIENT BRINEX LIMITED
PROJECT MANITOUWADGE AREA
GRID A.E. I, 2
DETAIL H.E.M. SURVEY
Scale: Inch = 200 Feet Dratted By: J. Hol
Covering Dates: Field June 4-30,1978 Office July 5-15,1978
Drawing
GEOEX Limited P.O. Box 70,
Exploration Services and Management Timmins, Ont.
(705) 267-3990

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	PSO/201 PSO/201 PSO/199 PSO/200 PSO/199 PSO/200 PSO/99 LESSARD TWR LESSARD TWR LOCATION MAP Scale: linch=1/2 mile
	LEGEND Measurement Station Along Picket Line Total Field Value
	Magnetic Contour Magnetic Depression Instrument: Scintrex MP-2 CONTOURS: 500 gammas 100 gammas
	25 gammas Claim Post Witness Post Creek Swamp Lake Trail Claim Post Mitness Post Creek Mitness Post Mitness Post Mitnes Mit
	CLIENT BRINEX LIMITED PROJECT MANITOUWADGE AREA GRID A. E. 4
— io s	MAGNETOMETER SURVEY
	Scale: linch = 200 feet Drafted By: J. Hol Covering Dates: Field June 4-30,1978 Consultant: P.T. George Office July 5-15,1978 Image
	GEOEX Limited P.O. Box 70, Exploration Services and Management Timmins, Ont. (705) 267-3990

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	OCATION MAP	Scale :	
	LEGEN	D	
Conductor Axis Conductor Width Conductivity Thickness (In-Phase Profile Quadrature Profile Profile Scale : Inch = Instrument : Apex Param Cable : AS	(mhos)/Depth E 20 % hetrics Maxmin SHOWN	+ 	
Claim Post Witness Post Creek Swamp Lake Trail	+	Road = Fence - Hydro Line r Building Drill Hole Outcrop	○ î =]
CLIENT BR PROJECT MA GRID	RINEX LI NITOUWADO A.E. DETAIL H.E.M. SI	MITED E AREA 4 JRVEY	
Scale: Inch = 200	Feet	Dratted By: J. Hol	÷.,
Covering Dates: Field June Office July GEOEX Limi	4-30,1978 5-15, 1978	P.O. Box 70,	Drowing Number
Exploration Services	and Managem	ent Timmins , Ont. (705) 267-3990	2D

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	residence from the source of t	ductor Axis ductor Axis ductor Width ductor Width ductority Thickness (mhos)/Depth Estimate (m) Hase Profile Phase Profile adrature Profile file Scale Inch = 20 % file Scale Inch = 20 % file Scale Inch = 20 % rument Apex Parametrics Maxmin II Coble 400 feet	laim Post Vitness Post Vitness Post Creek Creek Swamp Swamp Swamp Creek Mydro Line Building Drill Hole Outcrop Outcrop	LIENT BRINEX LIMITED ROJECT MANITOUWADGE AREA RID A.E. 6 RID A.E. 6 4.4.4 Hz. H.E.M. SURVEY	ring Dates Field June 4-30, 1978 Office July 5-15, 1978 Office July 5-15, 1978 Addit 1, Mary Addit 1, Mary Addit 1, Mary Addit 1, Mary Number P.O. Box 70, Xploration Services and Management Xploration Services and Management (705) 267-3990
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