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REPORT ON THE AIRBORNE GEOPHYSICAL SURVEY ON THE PROPERTY OF RISE RESOURCES LTD. ABBIE LAKE AREA, PUKASKWA RIVER AREA, KEATING ADDITIONAL AND LEGARDE ADDITIONAL TOWNSHIPS, ONTARIO

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MINING LANDS SECTION

H. FERDERBER GEOPHYSICS LTD.

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June, 1988 Val d'Or, Quebec D.M. Thai Geophysicist REPORT ON THE COMBINED AIRBORNE GEOPHYSICAL SURVEY ON THE PROPERTY OF RISE RESOURCES LTD. ABBIE LAKE AREA, PUKASKWA RIVER AREA, KEATING ADDITIONAL AND LEGARDE ADDITIONAL TOWNSHIPS, ONTARIO

INTRODUCTION

In March 1988, a combined airborne geophysical survey was carried out on the Rise Resources property in the areas of Abbie Lake and Pukaskwa River and the Townships of Keating Additional and Legarde Additional, Sault Ste. Marie Mining Division, Ontario. Magnetic and VLF-electromagnetic data were collected by the airborne division of H. Ferderber Geophysics Ltd. The survey was flown in a north-south direction for a total of 449.71 miles from a base out of Wawa, Ontario.

The magnetic survey provides information which help define underlying geological structures and identifies potential economic mineralized concentrations which may contain variations in accessory magnetic minerals. The VLFelectromagnetic survey outlines conductive zones which may represent metallic sulphide deposits and/or shear zones containing economic mineralization.

PROPERTY DESCRIPTION, LOCATION AND ACCESS

The Rise Resources property is comprised of 416 claims in the Abbie Lake and Pukaskwa River Area and the Townships of Keating Additional and Legarde Additional, Sault Ste. Marie Mining Division, Ontario. The claims cover approximately 6,656 hectares with 4 claims in Legarde Additional Township, 15claims in Keating Additional Township, 52 claims in the Pukaskwa River Area and 345 claims in the Abbie Lake Area. The claims are registered with the Ontario Mining Recorder's Office in Sault Ste. Marie and listed in Appendix I.

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The property is located about 30 miles west-northwest of the town of Wawa, 28 miles south-southwest of the town of White River and 46 miles southeast of Marathon. Access is best obtained by helicopter based in one of the above mentioned towns. There is also a dry weather road off Highway 17 through Kabenung Lake leading to the property.

University River Area Map 2333 from the Ontario Division of Mines indicates outcrop density to be approximately 30% on the claim group. The property sports several small lakes and swamps which cover about 7% of the area, the remainder being forested. Topographic relief is moderate to high with the presence of some hilly terrains in the south and southwestern portions of the claim group. The East Pukaskwa River trends southwest and channels through most areas of the claim group. -3-

A northwest trending electric power transmission line passes through the northeastern section of the property. Highway 17 westward is about 33 km east of the transmission lines.

Supplies, services and qualified manpower are available in the Wawa-White River-Marathon area.

GEOLOGY

The property is situated in the western end of the Kabenung Lake Greenstone Belt of the Superior Province of the Canadian Shield. The Kabenung Lake Greenstone Belt extends from Kabenung Lake in a west-southwest direction for a distance of about 30 miles (Goodwin 1962).

The Ontario Department of Mines Geological Compilation Map 2220, the Manitouwadge-Wawa sheet, the Department of Mines Geoscience Report 153 and accompanying maps 2332 and 2333, and a report, Mineralization of the Mishibishu Lake Greenstone Belt, by K.B. Heather of the Ontario Geological Survey describe the geology of the area. These maps and reports indicate that the claim block is underlain about 65% by mafic to intermediate metavolcanic, 10% by granitic and about 25% by metasedimentary rocks. The sedimentary rocks which are composed mainly of greywacke, arkose, polymictic conglomerate, slate and argillite, extend from the southeastern corner to the southwestern corner of the claim group as a wide distinctive band. The band enlarges eastward and exhibits synclinal symmetry about its axis. The underlying rocks are foliated and dip about 80° symmetrically across the synclinal axis. Separation between the conglomerate and other types of metasediments are clearly identified by surface geology. Another band of sedimentary rocks of similar composition is present in the far southwestern corner.

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Several discontinuous narrow bands of iron formation are embodied in the metasediments with one exception where the iron formation is present in the metavolcanics along the boundary.

Mafic metavolcanics lie to the north, south and adjacent to the metasedimentary rocks throughout the property. These are comprised of massive, pillowed to foliated andesites and basalts. Some of these units have probably undergone metamorphism to amphibolitic facies. Several small foliated lenses of felsic metavolcanics are also mapped in the northeastern part of the claim group dipping northerly about 85° . -5-

Batholithic intrusion is abundant in the region. Areas north and south of the property are underlain by the Kabenung Lake stock which are comprised of unsubdivided batholic granitic rocks to small units quartz monzonite, hybrid granite, porphyritic granite to migmatite. Further south of the property is the Mishibishu Lake stock which is of similar composition as the Kabenung Lake stock. Gabbroic intrusion is present to the southwestern corner just off the property. Also several northeast and northwest trending diabase dykes crosscut the metavolcanic and batholithic granitic rocks in the northern and southern portions of the claim group. These dykes are relatively short and discontinuous.

The rugged terrain and swift treacherous rivers made the area one of the most inaccessible in Ontario; yet before the turn of the century the iron deposits at Iron Lake were being assessed. The early prospectors were seeking high grade hematite-geothite ores of the Wawa type, but their search was largely unsuccessful.

There is little record of exploration in the area from the early 1900's to the middle 1930's when prospectors obtained high gold assays from quartz veins north of Mishibishu Lake. After two summers of systematic prospecting for gold with discouraging results, the project was abandoned. -6-

In the last decade base metals have become the prime target for exploration. Several base-metal showings were encountered in the southwestern corner of the claim group.

The International Bibis prospect is located just south of the southwest corner of the claim block. Seven holes totalling 2,238 feet were drilled. Six holes intersected a mineral zone. The best result was 1.47% copper over 17 feet. The mineralized zone is 10 to 15 feet wide, at least 400 feet long, and strikes about N60W with a steep dip to the north. The mineralization consists of seams and disseminated grains of pyrite, chalcopyrite, and possibly bornite and sphalerite distributed irregularly in highly sheared, silicified, and carbonatized mafic metavolcanics. Felsic metavolcanics lie a few feet to the north of the mineralized zone and may in part be a fault contact with the mafic metavolcanics. Dykes, sills and veins of granitic rocks have intruded the adjacent rocks.

Six grab samples were taken from the showing and were analysed by the Mineral Research Branch, Ontario Division of Mines. The results range from trace to 0.59 percent copper with one selected specimen yielding 5.58 percent copper and 0.66 ounces of silver per ton. Lead, zinc, and gold were detected in trace amounts only. -7-

The Burrex pyrrhotite and chalcopyrite occurrence is situated about 1.25 km east of the southeastern corner of the claim group. Overburden stripping and trenching of one of seven previously defined geophysical anomalies disclosed the presence of pyrite and graphite. Analyses of grab samples of the pyrite mineralization gave only minor amounts of precious metals and no copper. The only other Burrex anomaly shown is due to the presence of sulphide mineralization. Trenching exposed what is described in Burr's report as "heavy to massive pyrrhotite up to 23 feet in width". The best analysis of a grab sample is reported to be 0.18% copper and 0.03 ounce of silver.

Gold occurences were reported mainly in the Mishibishu Lake area. In 1949 Amichi Gold Mines Limited discovered goldbearing quartz veins about 300 m (1,000 feet) north of the north shore of Mishibishu Lake, approximately 10 km south of the property. Considerable trenching, stripping and assaying were carried out in 1950. There is no report of diamond The gold occurs in a pyrite and ankerite-quartz vein drilling. 25 to 91 cm (10 to 36 inches) wide and in 0.3 to 1.5 m (1 to 5 feet) wide shear zones on either side of the vein. The mineralized zone strikes about N50W for a distance of as much as 300 m (1,000 feet) in metamorphosed greywacke, slate, and arkose. A company report (Resident Geologist's Files, Ontario Ministry of Natural Resources, Sault Ste. Marie) gives the following assay results:

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Pukaskawa River-University River Area

Width		Gold		Width	Gold		
cm	inches	ounces/ton	cm	inches	ounces/ton		
45	18	0.23	97	38	1.48		
86	34	1.92	76	30	0.26		
114	45	1.07	107	42	0.19		
76	30	1.39	107	42	0.27		

Average width 86 cm (34 inches) Average grade 0.87 ounces per ton

The above assay results are reported to have been obtained from 75 m (240 feet) long section of the vein bounded by eaststriking faults. Although extensions of the vein system were located, the only assays of commercial grade are those quoted above.

The Hollinger (Mishibishu Lake) gold occurrence, 1937, lies approximately 11 km south of the property. The gold occurs in 10 to 12 east-striking quartz veins and lenses 0.6 to 1.2 m (2 to 4 feet) wide and 18 to 24 m (60 to 80 feet) long, which lie within a zone of highly sheared mafic to intermediate metavolcanics and quartz porphyry about 90 m (300 feet) wide and 600 m (2,000 feet) long. This zone also strikes east, and dips steeply to the north. Disseminated pyrite is common within the shear zone and veins, and minor chalcopyrite, galena, and sphalerite are reported. Five selected samples were collected from old trenches on the deposit in 1968, and were assayed by the Mineral Research Branch, Ontario Division of Mines. Two samples were found to contain 0.82 and 0.40 ounce of gold per ton and trace silver. The remaining samples contained only trace amounts of precious metals.

The Erie Canadian gold occurrence, 1937, is situated about 1 km east of and adjacent to the Hollinger occurrence. The goldbearing quartz veins and shear zone of Hollinger occurrence were found to continue for about 240 m (800 feet) eastward on to the Erie Canadian Mines Limited ground. Extensive stripping, trenching, and blasting were done on the extension by Erie Canadian Mines Limited, but the only significant assay obtained was 0.8 ounce of gold per ton over 1 m (3 feet) (Resident Geologist's Files, Ontario Ministy of Natural Resources, Sault Ste. Marie). The Amichi Gold Mines Limited gold discovery, Hollinger gold occurrence, and the Erie Canadian gold occurrence all lie in the Mishibishu Lake Greenstone belt about 2 kilometers south of the Kabenung Lake Greenstone belt.

The No Name Lake gold showing was discovered in 1984 on the Central Crude-Noranda property also in the Mishibishu lake Greenstone Belt approximately 10 km southeast of the property. Grab samples containing gold values of up to 0.744 oz/ton, were collected in quartz veins within a shear zone between mafic volcanic rocks and an intermediate volcanic flow and pyroclastic rocks. Recent sampling during the summer of 1987 identified a structure 200 to 700 meters wide and 4 km long, containing seven anomalous gold zones, ranging in widths from 0.5 m to 11 m. Grab and chip samples assayed from 0.01 oz/ton to 28 oz/ton. The gold was found in intermediate to felsic metavolcanic rocks located on the Central Crude-Noranda Property.

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The Mishibishu Lake Deformation Zone, associated with several of the gold occurrences in the Mishibishu Greenstone Belt, is comprised of several shear zones totaling up to 500 meters and also is host to the Magacon (Muscocho Exploration Ltd.), the Granges-MacMillan (Granges Exploration Ltd.), the Scuzzy little lake (Dominion Explorers Ltd.) and the Discovery (Westfield Minerals Ltd.) gold showings. They are situated near volcanicsediment contacts along the deformation zone. The geology of the Rise Resources Ltd. property in the Kabenung Lake Greenstone Belt is similar to that of the Mishibishu Greenstone Belt and has similar potential discovery of gold mineralization.

INSTRUMENTATION AND SURVEY METHODS

The survey was completed using a 1972 Cessna 172, fixed-wing aircraft, Registration CF-EWK, owned and operated by H. Ferderber Geophysics Ltd. The pilot and navigator/operator were Y. Saucier and D. Thai, respectively, of Val d'Or. Geophysical senors were mounted in modified wing tips. The geophysical, navigation and data aquisition systems are described below. -12-

Magnetometer

The magnetometer used was a GEM Systems GSM-11, high sensitivity airborne proton (Overhauser) magnetometer. The instrument continuously measures the Earth's magnetic field at a 0.01 gamma sensitivity for 1 reading per second to 10 readings per second. For the survey 4 readings per second at an accuracy of 0.04 gammas were read. The analog output is on 2 channels for coarse and fine displays.

VLF-EM System

A Herz Totem 2A VLF-EM system was used to measure the changes in the total field and in the vertical quadrature field on two frequencies simultaneously, with an accuracy of 1%. The primary transmitting stations were Cutler Maine, (NAA) frequency 24.0 KHz and Seattle Washington, (NLK) frequency 24.8 KHz.

Radar Altimeter

The ground clearance was measured with a King 10/10 A radar altimeter. The survey was flown at a mean clearance of 300 feet with the altimeter producing an accuracy of 5% (15 feet) at this altitude. -13-

Tracking Camera and Video Centre

A RCA TC-200 colour video camera and Galaxy 200 video centre was used to record the flight path on standard VHS type video tapes. Manual fiducials were indicated on the picture frames for reference with the digital printout. Flight path recovery was aided using a Panasonic Colour Video Monitor-S1300 and Video Cassette Recorder AG-2500.

Data Aquisition System

A Picodas Group Inc. PDAS 1100 data aquisition system featuring seven analog inputs with two frequency inputs and external interfacing was used. A Termiflex Corp. ST/32 Keyboard control unit and Sharp Corp. LCD display unit are connected to the data aquisition system. At present this system stores the altimeter readings, VLF-1 inphase, VLF-1 quadrature, VLF-2 inphase, VLF-2 quadrature, magnetic field (coarse), magnetic field (fine), and the fourth difference (noise), and fiducials on 3.5 inch floppy diskette. The data is then printed out in digital and profile forms.

The survey was conducted on north-south lines at an aircraft altitude of 300 feet. The lines were flown at spacings of 400 feet at a speed of approximately 90 miles per hour. Navigation was visual using airphoto mosaics, at a scale of one inch to 1320 feet, manual fiducials and the flight path recovery system as references. -14-

DATA PRESENTATION

Flight lines, fiducial points and geophysical responses were reproduced from the airphoto mosaics and video tapes on maps at a scale of one inch to 1320 feet (1:15,840). Outline of the claim group and claim map are shown on each map sheet.

The aeromagnetic data was corrected for diurnal variations by using a base lines as references. The data was then reduced to a base level of 59,000 gammas and contoured at 25, 100 and 1000 gamma intervals and presented on maps MG-1 and MG-2.

A base value was determined for the VLF-EM data and the change in the total field strength as a percentage of the base value was calculated. The values were plotted on maps EM-1 and EM-2. The positive values were contoured at intervals of 2%. The conductor axes were determined and numbered 1, 2, 3, etc. No priority was attached to the numbering system.

SURVEY RESULTS AND INTERPRETATION

Magnetic Survey

Maps MG-1 and MG-2 present magnetic data collected on the western half and eastern half of the property respectively.

The airborne magnetic survey outlines two extremely high distinctive magnetic series against background of about 59,000 gammas; one located to the southwestern corner and the other to the eastern central of the claim group. The extremely high magnetic readings (up to 63,000 gammas) are commonly encountered in areas of iron formation containing magnetic ferric minerals. The first series is about 3 miles long, narrow in width and east-west trending. It enlarges westerly and appears to continue further off the property. The second series is about 4 miles long, northeast-southwest trending and also narrow in width. The series appears continuing off the property on both ends.

The contoured lines are distorted and broken up at several locations indicating possible faulting or fracturing of the underlying rocks. Several finger-like features on both sides of the series indicate possible impingements of the iron formation into the neighbouring rocks.

Areas of generally low to moderate magnetic relief take up the rest of the claim group. Northern portions are probably underlain by felsic to mafic metavolcanics corresponding well to surface geology. South of the iron formations are probably underlain by intermediate to mafic metavolcanics and/or felsic intrusive rocks. The boundaries among these units are not clearly defined by the magnetic contrast indicating the relative equality in magnetic susceptability among the three main underlying rock types. A few isolated magnetic highs within the relative magnetic low probably represent localized units of ultramafics within the metavolcanics and/or isolated lenses of gabbroic sills or amphibolite within the intrusive rocks.

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Several narrow and longated bodies of magnetic highs crosscut the claim group. These are interpreted as discontinous late diabase dykes and being labelled on maps MG-1 and MG-2 along with possible faults and iron formations.

Zone of extremely magnetic lows within magnetic highs are probably caused by diplor effect of magnetism due to abrupt changes of poles.

VLF Electromagnetic

Map EM-1 and EM-2 present VLF-electromagnetic data collected on the claim group. The survey outlines 10 conductive zones on the property and they are discribed below in numerical order from west to east.

Conductive zone 1, located to the central far west of Map EM-1, is a long, continous conductor with moderate amplitude response. The zone axis overlies along the presumed band of iron formation and is probably caused by conductive minerals associated with the iron formation.

Conductive zone 2, located to the southwest of Map EM-1, is a short zone with weak amplitude response and partly overlies a creek. It could represent surface conductive overburden.

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Conductive zone 3, located to the northwestern corner of Map EM-1, is a short, distinctive 'zone with moderately high amplitude response. It appears to overlie a geological contact between intrusive and mafic metavolcanic rocks representing possible alteration/shear zone along a geological contact.

Conductive zone 4, located just south of zone 3 on Map EM-1, is a localized zone exhibiting moderately high amplitude in an area of low magnetics. The zone probably represents thick conductive overburden.

Conductive zone 5, located in the southeast corner of Map EM-1, is a discontinuous and distinctive zone exhibiting high amplitude reponse. Part of the zone overlies the shoulder of a moderately magnetic high and possesses no definite trend. The zone may represent a shear zone along geological contacts among units of metavolcanic and intrusive rocks.

Conductive zone 6, located just left of zone 3, is a short dicontinuous zone overlying an area of extremely low magnetics. It may be just an easterly continuation of zone 3 representing possible alteration/shear zone along the geological contact between intrusive and mafic metavolcanic rocks. -18-

Conductive 7, located to the northwestern corner of Map EM-2, is a short, localized zone with moderately high amplitude response. The zone overlies an area of very low magnetic and also along a creek. The zone could be caused by surface conductivity.

Conductive zone 8, located to the south central of Map EM-2, is a long, wide, continuous and north-northeast trending zone. Althought the zone has relative weak amplitude response, its shape and direction are very distinctive. The zone also overlies a series of magnetic highs of the presumed underlying iron formation and a small lake, and may represent conductive minerals associated with the iron formation within the metasediments.

Conductive zone 9, cutting across north central portion of Map EM-2, is a long continuous and distinctive zone with extremely high amplitude response. The zone lies along a road with power lines which cause the distinctive high amplitude response.

Conductive zone 10, located to the south central part of Map EM-2, is a long, continuous and north-northeast trending zone with moderately high amplitude response. The zone overlies an area of magnetics low just off the shoulder of the iron formation and also along a creek. This zone could represent shear/fracture along possible geological contact between the metasediments and mafic metavolcanics or surface conductivity along the creek. -19-

There exist several isolated zones of high conductivity throughout the claim group.' These are often associated with topographic features such as lakes, creeks etc. which are believed to have caused the anomalies.

CONCLUSION AND RECOMMENTATION

The combined airborne magnetic and VLF-electromagnetic survey were successful in helping outline the underlying geology and delineating conductive zones represeting possible shear/fault zones on the Rise Resources Property, Sault Ste Marie Mining Division, Ontario.

The results of the magnetic survey in combination with surface geology where applicable indicate that the claim group is underlain by Archean metasediments, mafic metavolcanics and felsic intrusive rocks. The northern portions of the claim group exhibit low to moderate magnetic susceptability which are typical of felsic metamorphic and intermediate-mafic metavolcanic rocks. These units are overlain by thin units of metasediments cutting south-southwest across claim group and being characterized by the embedment of bands of iron formation.

The southwestern portion of the claim group is underlain by the interbedement of mafic metavolcanic and metasedimentary rocks. Magnetic depressions along the southern boundary may represent major geological contacts among these units.

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The southeastern portions are probably underlain by metasediments/metavolcanics along the magnetic depression and isolated units of intrusive rocks which have been metamorphosed to amphibolitic facies.

Faulting, folding, batholithic intrusion, late diabase intrusion etc. have caused some major structural and lithological changes among these units resulting in the complexity of magnetic patterns. In some cases the distinction among the units are not apparent from the magnetic maps. Several geological and structural features are interpreted and marked on maps.

The VLF-electromagnetic survey delineated conductive zones of various physical properties and underlying geology. Conductive zones 2, 4, 7 and 9 are believed to be caused by surface effects such as conductive overburden, lakes, swamps, topographic relief, etc. Others are thought to represent bedrocks conductivity which may be associated with sulphide and/or gold bearing structures and formations. -21-

Structural and lithological diversity and complexity of the property, as indicated by the magnetic, VLF-electromagnetic and geological maps, suggest that the claims are located in favourable geologic environments for economic gold and/or base metals mineralization. Areas of similar geologic environments in the Kabenung Lake and Mishibishu Lake Greenstone Belts host several past Au, and base_metals occurrences. Several newly developed Au, mines are on the way along with valuable information coming out of the region everyday due to intense exploration efforts.

Further work is warranted on the property. Line cutting along with group geophysics and detailed geological mapping should be carried out. A preliminary diamond drilling program is to be drawn upon results the previous phases may warrant.

Respectfully submitted,

H. FERDERBER GEOPHYSICS LTD.

D.M. Thai, B.Sc. Geophysicist

APPENDIX 1 CLAIM LIST

SSM	957803	SSM	957864	SS	м 95	7914	SSM	957968
	957804		957865		95	7915		957969
	957805		957866		95	7916		957970
-	957806		957867		95	7917		957971
-	957807		957868		95	7918		957972
	957808		957869		95	7919		957973
	957809		957870		95	7920		957974
	957810		957871		95	7921		957975
	957813		957872		95	7922		957976
	957814		957873		95	7923		95797 7
	957815		957874		95	7924		957978
	957816		957875		95	7925		957979
	957817		957876		95	7926		957980
-	957818		957877		95	7927		969522
-	957819		957878		95	7928		969523
	957820		957879		95	7929		969524
	957821		957880		95	7930		969525
_	957822		957881		95	7931		969526
	957823		957882		95	7932		969527
	957824		957883		95	7933		969528
	957825		957884		95	7934		979141
	957826		957885		95	7935		979142
	957827		957886		95	7936		979143
-	957828		957887		95	7937		979144
	957829		957888		95	7938		979145
	957830		957889		95	7939		979146
-	957831		957890		95	/940		979147
-	95/832		957891	`	95	7941	•	979148
	95/033		95/892		90	7942		9/9149
	957034		95/893		95	7943		9/9150
_	957836		957094		95	/ 744 7015		9/9151
	957837		957895		95	7945 7016		979152
	957838		957897		95	7940 7947		070154
	957839		957898		95	7947 7948		979155
	957840		957899		95	7949		979156
	957843		957900		95	7950		979157
	957844		957901		95	7951		979158
	957845		957902		95	7952		979159
	957846		957903		95	7955		979160
-	957847		957904		95	7956		979161
•	957848		957905		95	7957	•	979162
	957849		957906		95	7958		979163
•	957850		957907		95	7959		979164
_	957858		957908		95	7960		979165
	957859		957909		95	7961		979166
	957860		957910		95	7962		979167
	957861		957911		95	7963		979168
	957862		957912		95	7964		979169
	957863		957913		95	7965		979170
					95	7966		
-					95	7967		



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SSM	979171	SSM	979221		SSM	979271	SSM	983583
	979172		979222			979272		983584
	979173		979223			979273		983585
	979174		979224			979274		983586
	979175		979225			979275		983587
	979176		979226			979276		983588
	979177		979227			979277		983589
	979178		979228			979278		983590
	979179		979229			979279		983591
-	979180		979230			979280		983592
-	979181		9/9231			9/9201		900132
	9/9182		9/9232			9/9202 070202		900134
	979183		9/9233			979203		991700
_	979104 070105		979234 070335			979204		991708
	979105		979235			979205		991709
	979100		979230			979280		991710
	979107 070100		070220			979288		991711
	979100		070230			979289		991712
	979109		979239			979290		991713
_	979191		979240			979291		991714
	979192		979241			979292		991715
	979193		979242			979293		991728
-	979194		979244			979294		991729
	979195		979245			979295		991730
	979196		979246			979296		991731
	979197		979247			979297		991732
_	979198		979248			979298		991733
	979199		979249			979299		991734
	979200		979250			979300		991735
	979201		979251			979301		991736
	979202		979252			979302		991737
	979203		979253			979303		991738
	979204		979254			979304		991739
	979205		979255			979305		991740
	979206		979256			979306		991741
-	979207		979257			979307		991742
	979208		979258			979308		991743
	979209		979259			979309		991744
	979210		979260			979310		991745
_	979211		979261			979311		991/40
	979212		979262			979312		991/4/
	979213		979263			9/9313		991/48 0017/0
	9/9214		9/9264			y/y314 070215		771/47 001750
	9/9215		9/9205		<i>a</i> .	9/9313 070316		991750
	9/9210		9/9200 070267			070217 012070		991751
	9/921/ 070010		3/320/ 070360			2/231/ 070210		991752
	7/7210 070010		212200 070220			979310		991754
	3/3613° 070330		070070			979329		991755
-	71322U		212610			11220		



Ministry of	Report of Work					
Northern Developmer and Mines	nt (Geophysical, Geological	1,				
Ontaria	Geochemical and Expend	ditures)				,
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Type of Survey(s)	·····		42003NW0545 2.11296	Additions 1"	,~`₽бкя80к	ي الالالا الالالا
Airborne Mag	netic and VLF-Ele	ctroma	gnetic	Keating Add	ditional (Waw
See attached	llist WP8 a	12.50	,	rospecto	LE LIVERICE NO. N	
Address C/O Durham C	eological comi	is The		· · · · · · · · · · · · · · · · · · ·	······	
P.O. Box 734	Timmins, Ontario). P4N	7G2		14-10-10	
Survey Company	,		Date of Survey (frc	UIN & to)	Li otal Miles of line	• • • • Flöi
H. Ferderber Name and Address of Author (of	Geophysics Ltd.	···· · ···	UBY May Yr	Uav Mo. Yr.	1	
R.A. Campbel	1 - G. N. Henriks	en, 16	9 Perreault	Ave., Val o	d'Or, Que	. J9P
Credits Requested per Each C	Claim in Columns at right	Mining	Claims Traversed (List	t in numerical seque	ence)	
opecial Frovisions	Geophysical Days per Claim	Prefix	Number Da	xpend. ays Cr. Prefix	Number	Expend. Daγs Cr.
For first survey: Enter 40 days (This	Electromagnetic	SSM	957803 et.	al		
includes line cutting)	- Magnetometer		(see attac	hed Append	x)	
For each additional	- Radiometric					· · []
using the same grid:	• Other		P		t	-
Enter 20 days (for each)	Geologiat	1	ONTARIO GEOL	LOGICAL SUPPORT	[- [
	Geological	!	ASSESON	MENT FILLES		
	Geochemical	1	1_ μ Υ	- 102		_
wan Days	Geophysical Days per Claim		,IIII 7	2 1988		
Complete revine ECEI						-
and oncer (DIBI(S) TIPLE	An Magnetometer	ł	LRECE	IVEN I		· []
APR 27	1988	-				
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MINING LANDS	s section		Į T		ļ.	
	Geological		MAR 29 1988			
¶	Geochemical	_	acelot M		1	
Airborne Credits	Days per		voipt No.			
Note: Special months	Electromanuclic	,				
credits do not apply	Mag				ļ	
to Airborne Surveys.	Magnetometer 40	1-	SAINT		ł	
	Radiometric]]r-	Trut STIC			
Expenditures (excludes power	r stripping)			1: 56/		
, уре от work Pertormed						
Performed on Claim(s)	{	1	1 tom 29 toho	}∤ ∫	ł	
		17.8	2.12 11.55	- 100	· · · ·	{ ··· · }
			115 115			
Calculation of Expenditure Days	Credits		Γ.		Ţ	
Total Expenditures	Totai Days Credits		<u>.</u>			
\$	+ 15 =			Total nur	nber of mining	
Instructions				claims courseport of	vered by this work.	414
Total Days Credits may be app choice. Enter	portioned at the claim holder's credits per claim and	[For Office Lise Only			J
in columns at right.	pur claim selected	Total Day Becord	rs Cr. Date Recorded	Mining Re	çorder	$\overline{}$
	under an		Thuch 2	7/23	and and	
Acre Reco	view notice or Agent (Signature)	33,12	10 Date Approved as A	Branch Di	This -]
Certification Verifying Report	1 of Work		_ H Harly			
I hereby certify that I have a n	personal and intimate knowledge of	the facts set	forth in the Deport of W	fork annexed hereto "	having performed t	he work
or witnessed same during and/o	or after its completion and the annual of Contribution	exed report i	s true.		ار موجد در . 	
vaine and Postal Address of Perso	box 100 -	+ »-	Val 210	uebec	י 201	
<u> наrry Ferder</u>	Der, 169 Perreaul	L AVE,	Date Certified	Certified to	y (Signature) /	
/			March >2	198 17.	2 il	R.
969 (95/19)				yet-	4	\ 🔺

Ontario	Report of Work (Geophysical, Geolog Geochemical and Ex	pical, W penditure	DCUMENT No. 18805 · 09		Note:	Please type or print. If number of mining exceeds space on this fo Only days credits cai "Expenditures" section in the "Expend. Days Do not use shaded areas	claims traversed orm, attach a list. Iculated in the may be entered cr." columns, helow TC
Type of Survey(s)	2- 110				Township	or Area	
MAGNETOMETER VLI	-EM				KEAT	TING ADDITIONAL	(Wawa
Claim Holder(s)		DINGS	TD:			Prospector's Licence No	11.115
Address C/O BOX 1130 TIM	MINS, ONTARIO	P4N 7H6))		,	/.	7075
Survey Company H. FERDERBER GEC	PHYSICS			Date of Survey	(from & to) 88 _25	02, 88 2	line Cut
Name and Address of Author (c	of Geo-Technical report)				Yr. Day 1	MO. Yr.	
R. A CAMPBELL, 1	69 PERREAULT A	VENUE,	VAL D'OR QU	EBEC			
Credits Requested per Each	Claim in Columns at r	ight	Mining Claim	s Traversed (I	List in nume	rical sequence)	
Special Provisions	Geophysical	Days per Claim	Prefix	Claim Number	Expend. Days Cr.	Mining Claim Prefix Number	Expend. Days Cr.
For first survey:	- Electromagnetic		SSM 95	7953			
Enter 40 days. (This includes line cutting)	A A			705%	 		
	Magnetometer	ļ	90	17J4	ļ		
For each additional survey:	- Radiometric						
using the same grid:	Other						
Enter 20 days (for each)	Geological			<u> </u>	<u> </u>		
	Geological						
	Geochemical						
Man Days	Geophysical	Days per					
Complete revene Rien n		Claim		••••••		S	
and enter total (s) Fer L	VEDomagnetic						
	- Magnetometer						
JUL 7	1988 adiometric						
MINING LAND	SECTION		SAUL	T-STE-MAR			
	Geological		Dis	MINING DIV.			
	Geochemical			y-14-1-V -	FU		
Airborne Credits		Davs per			 		
		Claim		24.08			
Note: Special provisions	Electromagnetic VI.F	30	A.M.7		P.N.	Participant.	
credits do not apply	Magnetometer	30	121212101	11121171218	41515	RECOR	DFAT
to Anbonie Surveys.							
	Radiometric					1	····
Expenditures (excludes pow	er stripping)					UUN 24 1	988
Type of Work Performed						Becelot No	
Performed on Claim(s)					┨─────┦		
Calculation of Expenditure Day	s Credits	otal			 		
Total Expenditures		Credits	PT PT			1961 (j. 1970) 1961 (j. 1970)	
\$	+ 15 =					Total number of mining	2
						claims covered by this report of work.	
Total Days Credits may be a	pportioned at the claim h	older's	En	Office Lice O	inly	Activit	
choice. Enter number of day in columns at right.	s credits per claim selecte	id I	Total Days Cr. I	Date Recorded	/	Mining Recorder	11
L			Recorded	Une .	24/88	6. a.K.	ruls
Date Re	corded Holder or Agent (Signature)	1/2/1	Ste Approved	as Recorded	BranchyPirector	- market
JUNE 22, 1988	Smil	+	1010	of 11 hil	478	1 Uplan	~
Certification Verifying Repo	ort of Work	<u> </u>	1	<u>×'/</u>	(
I hereby certify that I have a or witnessed same during and	personal and intimate kr d/or after its completion	nowledge of and the ann	f the facts set forth nexed report is true.	in the Report o	of Work annex	ed hereto, having perform	ned the work
Name and Postal Address of Per	son Certifying						
DON	MCKINNON, BOX	1130 т	IMMINS, ONT	ARIO P4N	7H6		
				Date Certified JUNE 22.	1988	Certified by (Signature)	2
J				,	-	Van 12-	



Ministry of Northern Development and Mines

Geophysical-Geological-Geochemical Technical Data Statement

File_

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) Township or Area	Airborne Legarde Abbie La	Magnetic and V Additional, Rea ke, Pukaskwa Ri	LF-Electom ting Addit ver	agnet ipnal	ic MINING CLAIMS TRAVERSED	
Claim Holder(s)	<u> G. Carno</u>	vale, P. Atkins	on, L. Rod	erts	List numerically	
	and H an	d <u>L Mineral Hol</u>	dings			1
Survey Company	H. Ferde	rber <u>Geophysics</u>	Ltd.	<u>. SS</u>	M 957803 et. al. (prefix) (number)	,
Author of Report	D. Thai	·····		Se	e attached appendix	
Address of Author_	<u>169 Perr</u>	<u>eault Ave, Val</u>	<u>d'Or, Queb</u>	ec		
Covering Dates of Su	arvey <u>Marc</u>	h 19 to 22, 198 (linecutting to office)	8			
Total Miles of Line	Cut <u>flown</u>	449.71		、 .		ŀ
SPECIAL PROVIS	SIONS ESTED	Geophysical	DAYS per claim			attach list
ENTER 40 days (ncludes	-Electromagnetic.				ġ
line cutting) for fi	rst	-Magnetometer				yjne
survey.		-Radiometric				н. 8
ENTER 20 days fo	or each	–Other				
additional survey i	ising	Geological				
same griai		Geochemical				·
AIRBORNE CREDI Magnetometer 31	TS (Special provi Electromag (enter o	sion credits do not apply to a netic <u>31</u> Radiom days per claim)	irborne surveys) etric	>	· · · · · · · · · · · · · · · · · · ·	
DATE: June 10 /	88 SIGN/	ATURE:	port or Agent			Þ
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Res. Geol.	Quali	fications				
Previous Surveys	Data					1
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				тс	DTAL CLAIMS	

OFFICE USE ONLY

SELF POTENTIAL		
Instrument		Range
Survey Method		Ъ
	•	·
Corrections made	· .	
	· ·	·
9 - 2 000 - 120 -		
RADIOMETRIC	,	·
Instrument		
Values measured		
Energy windows (levels)		
Height of instrument		Background Count
Size of detector		
Overburden		
	(type, depth - ir	clude outcrop map)
OTHERS (SEISMIC DRILL WE	LL LOGGING FTC)	
Type of survey		· .
Instrument		
Acouracy		
Parameters measured		
Additional information (for under	standing results)	
-		
AIRBORNE SURVEYS		
Type of survey(s) Airborn	Magnotia and V	T.F.F.J.ochomesuchis
Instrument(s) GEM_GSM	-1] Horz Totom 2	n niectomagnetic
	(specify for each	type of survey)
Accuracy	(specify for each	type of survey)
Aircraft used Cessna	172	
Sensor altitude	- · ·	
Navigation and flight path recover	y method <u>Naviga</u>	tion was visual on airphoto mosaics. Fli
path recovery was obta	ined with a RCA	colour video camera Panasonic
After Multilideo Monitor	300 feet	Line Spacing 400 feet
Miles flown over total area	449.71	Over claims only 332.46

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APPENDIX 1 CLAIM LIST

SSM	957803	SSM	957864	SSM	957914		SSM	957968
	957804		957865		957915			957969
	957805		957866		957916			957970
	957806		957867		957917			957971
	957807		957868		957918			957972
	957808		957869		957919			957973
	957809		957870		957920			957974
	957810		957871		957921			957975
	957813		957872		957922			957976
	957814		957873		957923			957977
	957815		957874		957924			957978
	957816		957875		957925			957979
	957817		957876		957926			957980
	957818		957877		957927			969522
	957819		957878		957928			969523
	957820		957879		957929			969524
	957821		957880		957930			969525
	957822		957881		957931			969526
	957823		957882		957932			969527
	957824		957883		957933			969528
	957825		957884		957934			979141
	957826		957885		957935			979142
	957827		957886		957936			979143
	957828		957887		957937			979144
	957829		957888		957938			979145
	957830		957889		957939			979146
	957831		957890		957940			979147
	957832		957891		957941			979148
	957833		957892	•	957942			979149
	957834		957893		957943			979150
	957835		957894		957944			979151
	957836		957895		957945	۰. ¹		979152
	957837		957896		957946			979153
	957838		957897		957947	•		979154
	957839		957898		957948			979155
	957840		957899		957949			979156
	957843		957900		957950			979157
	957844		957901		957951			979158
	957845		957902		957952			979159
	957846		957903		957955			979160
	957847		957904		957956			979161
	957848		957905		957957			979162
	957849		957906		957958			979163
	957850		957907		957959			979164
	957858		957908		957960			979165
	957859		957909		957961			979166
	957860		957910		957962			979167
	957861		957911		957963			979168
	957862		957912	a.	957964			979169
	957863		957913		957965			979170
					957966			
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979172 979222 979272 983584 979173 979223 979273 983585 979174 979224 979274 983586 979175 979225 979275 983589 979176 979226 979277 983589 979177 979228 979278 983590 979180 979229 979279 983592 979181 979230 979280 983592 979181 979231 979281 966133 979182 979233 979283 991706 979183 979235 979285 991707 979184 979236 979285 991708 979185 979236 979286 991701 979186 979237 979286 991711 979186 979238 979286 991713 979180 979244 979280 991713 979190 979243 979292 991713 979193 979244 979292	SSM	979171	SSM	979221	SSM	979271	SSM	983583
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979183 979233 979283 991706 979184 979234 979284 991707 979185 979235 979285 991708 979186 979236 979286 991709 979186 979237 979287 991710 979188 979238 979289 991712 979190 979240 979290 991713 979192 979242 979293 991714 979192 979243 979293 991715 979193 979244 979293 991729 979194 979246 979297 991732 979195 979246 979297 991733 979196 979247 979299 991733 979197 979247 979299 991734 979200 979250 979300 991735 979201 979251 979301 991736 979202 979252 979303 991736 979203 979255 979303		979182		979232		979282		986134
979184979234979284991707979185979235979285991708979186979236979286991709979187979237979287991710979188979239979289991712979190979240979290991713979191979241979291991714979192979242979292991715979193979245979295991733979194979245979296991733979195979246979296991733979196979246979296991733979197979247979296991733979198979248979298991733979199979251979301991735979200979252979301991735979203979254979303991738979204979255979304991738979205979255979305991740979206979256979306991744979207979257979307991742979208979258979308991744979209979259979308991744979210979260979313991744979205979263979313991744979206979313991744979207979263979313991744979215979263979313991744979215979266979313991746979215979266979313 <td< td=""><td></td><td>979183</td><td></td><td>979233</td><td></td><td>979283</td><td></td><td>991706</td></td<>		979183		979233		979283		991706
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979220 979270 979320 991755		979219		979269		979319		991754
		979220		979270		979320		991755

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CLAIM HOLDERS AND LICENCE NUMBERS

н 	т.	Mineral	Holdings	η	n _	161	15
Lloyd	1 F	Roberts		М	208	892	
Paul	At	kinson		М	213	897	
Gary	Ca	arnovale		М	218	359	



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APPENDIX 1 CLAIM LIST

1011	055000						
SM	957803	SSM	957864	SSM	957914	SSM	957968
	957804		957865		957915		957969
	957805		95/866		957916		957970
	957806		957867		957917		957971
	957807		957868		957918		957972
	957808		957869		957919		957973
	957609		957870		957920		957974
	957010 7		957871		957921		957975
	957015		957672		957922		957976
	957014 057015		90/8/3		957923		957977
	957615		90/8/4 057075		95/924		957978
	957010		957875		957925		957979
	957017 057010		90/0/0 057077		95/926		9579802
	957610		957877		95/92/		969522
	957019		957878		957928		969523
	957820		957879		957929		969524
	95/821		957880		957930		969525
	957622		957881		957931		969526
	95/823		957882		957932		969527
	907024 057005		957883		957933		969528
	95/825		957884		95/934	-	979141
	957820		95/885		95/935		979142
	95/82/ 057020		95/885		95/936		979143
	227020 057000		957887		95/93/		979144
•	957629		957888		957938		979145
	95/830 057031		957889		957939		979146
	90/031 057000		957890		95/940		979147
	JJ/0J2 057033		957891		95/941		979148
•	257033 057021		957892		957942		979149
	957054		90/093		95/943		979150
	957035 057036		907094 057005		957944		979151
	957830		957095		95/945		979152
	057030		057007		957940		9/9153
	957838		957097		90/94/		979154
	957840./		957090		957940		9/9155
	957843		957099		957949		9/9150
	957843		957900		957950		9/915/
	957845		957901		957951		9/9158
	957846		957902		957952		9/9159
	957947		957903		957955		9/9160
	957848		957904		957950		9/9161
	957840		957905		90/90/		9/9102
	057050/		957900		957958		979163
	057050		957907		957959		9/9164
	957050		957900		957960		979165
	957860		997909 057010		72/701 057062		9/9100 970167
	957000		957910 057011		901902 057060		A1ATP1
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979176 979226 979276 98 979177 979227 979277 98 979178 979229 979279 98 979180 979229 979279 98 979181 979230 979280 98 979181 979233 979281 98 979183 979233 979283 99 979184 979235 979285 99 979185 979236 979286 99 979186 979237 979286 99 979186 979238 979286 99 979189 979239 97288 99 979189 979240 979289 99 979191 979241 979291 99 979192 979243 979293 99 979193 979245 979294 99 979194 979244 979295 99 979195 979245 979295 99 979197 97		979175		979225		979275		903500
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979181 979231 979281 98 979182 979232 979282 98 979183 979233 979283 99 979184 979235 979286 99 979185 979236 979286 99 979186 979236 979286 99 979187 979236 979286 99 979188 979236 979286 99 979189 979239 979289 99 979190 979240 979290 99 979191 979241 979293 99 979192 979242 979293 99 979193 979245 979293 99 979194 979245 979295 99 979195 979245 979296 99 979196 979246 979296 99 979197 979248 979296 99 979200 979255 979300 99 979201 9		979180		979229		979279		983591
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97918397928397928599979185979235979285999791869792379792869997918797923797928799979188979239979288999791899792399792899997919097924097929099979191979241979291999791929792439792939997919497924497929499979195979245979295999791969792469792969997919797924797929799979198979250979300999791999792509793009997920097925197930199979201979252979302999792039792539793039997920497925597930499979205979256979306999792069792589793079997920797925897930899979208979259973069997920997925997307999792049792599731099979205979306979792069792599731099979210979260973119997921197926197311999792129792659731399979213979265973169997921497926597316 <td></td> <td>070102</td> <td></td> <td>070232</td> <td></td> <td>070000</td> <td></td> <td>9001340</td>		070102		070232		070000		9001340
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M.+ S. - MINING AND SURFACE RIGHTS



NOTES

KEATING TWP. OWNED BY A.C.RY. NOT OPEN FOR STAKING UNDER ONT. MINING ACT. ENQUIRE AT A.C.RY. OFFICES AT S.STE. MARIE REGARDING STAKINGS ETC.

KEATING ADDITIONAL IS OPEN FOR STAKING. UNDER THE ONTARIO MINING ACT





CHARBONNEAU 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. **BAILWAY 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 ", MINING RIGHTS ONLY. LICENCE OF OCCUPATION ORDER-IN-COUNCIL RESERVATION CANCELLED SAND & GRAVEL NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6. 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1. SCALE: 1 INCH = 40 CHAINS FEET 8000 0 200 METRES 1000 (2 KM) TOWNSHIP KEATING & EATING ADD KEATING AL WAWA MINING DIVISION SAULT STE. MARIE LAND TITLES / REGISTRY DAVISION ALGOMA Ministry of Land R Natural Management Resources Branch Ontario Number Date - MARCH, 1983











	H. Ferderber Geophysics Ltd.	
	KEATING & LEGARDE A	DI
AREA	PUKASKWA RIVER & AB	В



((C))

LEGEND

TOTAL FIELD CONTOUR INTERVAL 2 % Conductor axis

- O FIDUCIAL POINT
- > LINE DIRECTION

STATION USED: for LINES 52 to 115, CUTLER (24.0 kHz.) LESS THAN ZERO for LINES 116 to 176, SEATTLE (24.8 kHz.)

