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REPORT ON THE
AIRBORNE GEOPHYSICAL SURVEY
ON THE PROPERTY OF
RIVER OAKS GOLD RESOURCES LTD.
HAWKINS AND IRVING TOWNSHIPS, ONTARIO

RECEIVED

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BY

MINING LANDS SECTION

H. FERDERBER GEOPHYSICS LTD.

Val d'Or, Quebec
July 17, 1987

G.N. Henriksen, B.Sc.
Geologist.

REPORT ON THE
AIRBORNE GEOPHYSICAL SURVEY
ON THE PROPERTY OF
RIVER OAKS GOLD RESOURCES LTD.
HAWKINS AND IRVING TOWNSHIPS. ONTARIO

INTRODUCTION

Between May 15 and 17, 1987 an airborne geophysical survey was carried out on the property of River Oaks Gold Resources Ltd. in Hawkins and Irving Townships, Ontario. Magnetic and VLF-electromagnetic data was collected by the airborne division of H. Ferderber Geophysics Ltd. The survey was flown from a base at Hearst, Ontario. A total of 270.5 miles of data was collected.

The magnetic survey provides information which helps define underlying geological structures and identifies any potential economic concentrations from variations in accessory magnetic minerals. The VLF-electromagnetic survey outlines conductive zones which may represent shear zones and/or metallic sulphide deposits containing gold mineralization.

PROPERTY, DESCRIPTION, LOCATION AND ACCESS

The property is comprised of 341 claims in Hawkins and Irving Townships, Sault Ste. Marie Mining Division, Ontario. They are divided into a north block of 110 claims and a south block of 231 claims. The claims cover approximately 5456 hectares with 278 claims in Hawkins Township and 63 claims in Irving Township.

They are registered with the Ontario Mining Recorder's office at Sault Ste. Marie and are listed in Appendix 1.

The property is located approximately 5 km south-southeast of the small railway village of Oba and 70 km south of the town of Hearst. Access is obtained by taking Highway 583 south from Hearst for 67 km then travelling on a gravel road for 75 km until reaching the village of Oba. By taking a road south eastward for 3 km from Oba to a junction with the road, leading to the village of Langdon, and then following it southward 1.5 km, the northern boundary of the north claim block is reached.

The road traverses the north claim block north-south then turns southwest towards the town of Langdon. Three km southwest of Langdon the road traverses the north-west corner of the southern claim block. Access can also be obtained by float/ski plane from Hearst to Watt Lake on the western side of the northern block or to a lake on the southern block located a 1 km north of Hawkins lake. The Algoma Central Railway traverses the south block north-south and the Canadian National Railway traverses the north block east-west.

Approximately 60% of the property is forested and 35% has been logged. On the west side of the south block lies a lake that flows northeastward into the eastern branch of the Oba river. The eastern branch of the Oba river traverses north-south the western part of the south block. The numerous swamps surround the lake and rivers on the property. The topographic relief is generally low.

Supplies and services are available in the Hearst-Kapuskasing-Hornepayne area.

GEOLOGY

The Ontario Department of Mines Geological Compilation Sheet 2220-Manitouwadge-Wawa area indicates that in the north claim block, approximately three quarters of the property is underlain by Archean age metamorphic and felsic intrusive rock. A band of mafic metavolcanic rocks underlies about 22% of the property in the northern part of the claim block traversing west northwestly, from the central eastern boundary. Along the southern boundary about 3% of the property appears to be underlain by metavolcanic rocks with an east-west trend. This metavolcanic unit lies between the northern and southern claim blocks and has an Au-Ag mineralization occurrence and an Au occurrence.

The southern claim block is indicated to be 80% underlain by Archean age metamorphic and felsic intrusive rocks. A band of mafic metavolcanics trending east northeast underlies about 20% of the central part of the claim block. In the band of mafic metavolcanic rock, two Mo mineral occurrences, located 0.5 to 0.75 km south of the southwestern boundary.

In the south block a dyke traverses the property from the central-northern boundary trending southeastward to the eastern boundary.

Another dyke located about a half mile south of the above-mentioned dyke, near the east boundary of the property, has a similar trend. The dykes are separated by a northwest trending lineament. A fault trending northeastward traverses the south block from the southwestern boundary to the eastern boundary. A sub-parallel lineament lies just north of the fault and joins with it south of the property. Several east-northeast and northwest trending lineaments are shown to be situated in the central part of the south grid.

INSTRUMENTATION AND SURVEY METHODS

The survey was completed using a Cessna 172, fixed wing aircraft (CF-AAV) owned and operated by H. Ferderber Geophysics Ltd. It was piloted by P. Jevremovic of Val d'Or. The navigator/operator was M. Caron, also from Val d'Or. Geophysical sensors were mounted in modified wing tips. GEM-GSM-9 BA Overhauser Proton Precession Magnetometer and Herz Totem 2AG VLF-electromagnetic systems were used. The magnetometer has a resolution of 0.5 gammas, recorded on analogue tape. The VLF-EM measures the change in total field and vertical quadrature field on two channels simultaneously, with an accuracy of 1%. The data is then transferred to a printer. The transmitting station at Annapolis, Maryland NSS, frequency 21.4 kilohertz was used.

The survey was conducted at an aircraft altitude of 250 feet above ground level. The altitude was measured with a Bonzer Mark 10 radar altimeter. A survey speed of approximately 100 miles

per hour was used. Navigation was visual with reference to air photo mosaics at a scale of one inch to 1320 feet. Lines flown in east-west directions at spacings of 440 feet were recovered from the photo mosaics. Manual fiducials were recorded simultaneously on the geophysical tapes and solid state memory.

DATA PRESENTATION

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

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

The VLF-EM data was transferred from the Totem 2AG memory to printed form. A base value was determined 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 labelled 1, 2, 3, etc. No priority was attached to the numbering system.

SURVEY RESULTS AND INTERPRETATION

Magnetic Survey

MAP MG-1 SOUTH BLOCK

On the east side of the map a narrow magnetic high anomalous zone, trending north-northwest, coincides with the position of a diabase dyke. A similar magnetic high anomalous zone lies about 1 mile to the west and parallels this zone. A prominent magnetic high anomalous zone trending east-northeast in the centre of the map area has magnetic values up to 1600 gammas above background. It coincides with the position of the band of metavolcanic rocks thought to underlie the property.

The broad, shallow gradient, zone of magnetic lows in the northern and southern parts of the map coincide with the position of the metamorphic and felsic intrusive rocks thought to underlie the property.

On the west side of the map lies a north-northwest trending magnetic high anomalous zone. It may represent a dyke.

A weak magnetic anomalous zone defined by distortions in the contour pattern and a series of high and low anomalies trend northeast and traverses the map from its southwest corner to its eastern boundary. Its position coincides with the location of a river.

Just south of the prominent magnetic high, magnetic lows (saddles) appear in the two north-northwest trending narrow magnetic high anomalous zones, these breaks may define an east-northeast structural break.

The narrow northeastern trending magnetic high in the southern part of the map coincides with the position of a presumed fault.

In the northwestern map area the centre broad magnetic low anomalous zone is traversed north-south by the eastern branch of the Oba river.

MAP MG-2 NORTH BLOCK

A prominent magnetic high anomalous zone, with magnetic values in excess of 1000 gammas above background, located in the southeastern corner of the map appears to trend west-southwest. It is bounded to the north by a narrow zone of magnetic lows that probably represent a geological contact. The prominent magnetic high may represent the metavolcanic rocks thought to border the southern boundary of the claim block.

In the southwest corner of the map lies a magnetic high anomalous zone that trends northwestward.

A north-northeast trending, narrow magnetic high anomalous zone situated on the west side of the map appears to be cross cut by a zone of low magnetic values with a shallow gradient. It may represent a mineralized shear zone.

A magnetic high anomaly on the east part of the map lies in a broad west-northwest trending magnetic low.

VLF-Electromagnetic Survey

MAP EM-1 SOUTH BLOCK

Conductive zone 1 is a long north-northwest trending discontinuous conductor. It coincides with the western shoulder of a narrow magnetic high anomalous zone that traverses the central part of the map.

Conductive zone 2 is an east-west trending conductor. It coincides with the southern shoulder of a magnetic high anomalous zone in the central part of the map, and may represent a contact between the band of metavolcanic rock to the north and the metamorphic and intrusive rocks to the south.

Conductive zone 3 is a long discontinuous north-northwest trending conductor. It coincides with a narrow magnetic high anomalous zone in the northeast part of the map.

Conductive zone 5 is a short north-south trending conductor in the central part of the map. It lies on the northern shoulder of the magnetic high anomalous zone that may represent underlying metavolcanic rocks. If extended the southern part

of the conductor would traverse a saddle in the magnetic high anomalous zone.

Conductive zone 6 is a short discontinuous northwestern trending conductor. It lies along the east-central boundary, and is associated with magnetic high anomalies, and is terminated to the north by a magnetic low anomaly.

Conductive zone 7 is a discontinuous northwest trending conductive zone. It lies west of the Oba River on the northwestern part of the map, and coincides with a broad magnetic low anomalous zone.

Conductive zone 8 is a short northwest trending conductor. It lies along the western boundary in the north part of the map. It coincides with a lake and a magnetic low anomalous zone.

Conductive zone 11 is a short north-northwest trending conductor in the south central map area. It lies on the lower side of the shoulder of a magnetic high anomalous zone.

Conductive zone 13 is a short northwest trending conductor in the southwest corner of the map and is associated with a magnetic low anomalous zone.

MAP EM-2 NORTH BLOCK

Conductive zones 14, 15 and 16 all trend northwestward.
Conductive zone 14 is a short conductor which lies in the

northwest part of the map. It coincides with a railway line and appears to truncate the north end of a magnetic high anomaly in anortheast trending magnetic high anomalous zone.

Conductive zone 15 is a short discontinuous conductor in the south part of the map. It coincides with a weak disturbance in the magnetic contour pattern.

Conductive zone 16 is a short discontinuous conductor in the southwest map area. It appears to be associated with magnetic low anomalous values.

Conductive zones 4, 9, 10 and 12 coincide with wetland areas and do not appear to be bedrock conductors.

CONCLUSIONS

The airborne VLF-electromagnetic and magnetic surveys were successful in outlining possible shear zones and helping define the underlying geology of the River Oaks Gold Resources Ltd. property in Hawkins and Irving Townships, Ontario.

On the south claim block rocks of high magnetic susceptibility underlie the central region and probably represent a band of metavolcanic rock thought to underlie the property. The two long narrow parallel zones of high magnetic susceptibility that trend north-northeast and traverse the east part of the property appear to reflect the presence of dykes.

In the southeast corner of the block a narrow band of high magnetic anomalies trending northeastward coincides with the position of a presumed fault.

South of the central magnetic high anomalous zone saddles occur in the two north-northwest trending narrow magnetic high anomalous zones, these may define an east-northeast structural break.

The magnetic distortions in the magnetic contours along the southern shoulder of the central magnetic high may represent a sheared geological contact.

The north grid is underlain by rocks of high magnetic susceptibility in the south and southeast region, coinciding roughly with the position of the metavolcanics thought to underlie this part of the property.

Rocks of high magnetic susceptibility on the west side of the block trend northeastward and appear to be cross cutting rock of lower magnetic susceptibility.

A magnetic high anomaly on the east side of the property may represent what was thought to be a band of metavolcanic rock traversing the property.

Sixteen conductive zones were outlined on the property, of these conductive zones, zones 1, 2, 3, 5, 6, 7, 8, 11, 13, 14, 15 and 16 appear to represent bedrock conductors. Conductive zones 5, 7, 8, 11, 13, 15 and 16 possibly represent structural breaks. Conductive zones 1, 3, 6 and 14 may represent geological contacts. Conductive zone 2 may represent a sheared geological contact.

RECOMMENDATIONS

Further work is warranted on the property especially in the areas of the above mentioned conductors and on the central prominent magnetic high anomalous zone of the south claim block.

An exploration program of ground geophysics and geological surface mapping should be undertaken. Magnetic and horizontal loop-electromagnetic surveys, followed by induced polarization, over selected electromagnetic conductors, should be performed.

Potential geological/geophysical targets should then be tested by diamond drilling.

Respectfully submitted,

H. Ferderber Geophysics Ltd.

Ferderber
G.N. Henriksen

G.N. Henriksen, B.Sc.
Geologist

July 17, 1987

Val d'Or, Quebec

APPENDIX 1 - CLAIM LIST

Hawkins Township

P 906181	P 906927
P 906182	P 906928
P 906183	P 906929
P 906184	P 906930
P 906185	P 906931
	P 906932
P 906186	P 906933
P 906187	P 906934
P 906188	P 906935
P 906189	P 906936
P 906190	P 906937
P 906191	P 906938
P 906192	P 906939
P 906193	P 906940
P 906194	P 906941
P 906195	P 906942
P 906196	P 906943
P 906197	P 906944
P 906198	P 906945
P 906199	P 906946
P 906200	P 906947
P 906901	P 906948
P 906902	P 906949
P 906903	P 906950
P 906904	P 915278
P 906905	P 915279
P 906906	P 915280
P 906907	P 915281
P 906908	P 915282
P 906909	P 915283
P 906910	P 915284
P 906911	P 915285
P 906912	P 915286
P 906913	P 915287
P 906914	P 915288
P 906915	P 915289
P 906916	P 915290
P 906917	P 915291
P 906918	P 915292
P 906919	P 915293
P 906920	P 915294
P 906921	P 915295
P 906922	P 915296
P 906923	P 915297
P 906924	P 916464
P 906925	P 916465
P 906926	P 916466

P 916467	SSM 916759
P 916468	SSM 916760
P 916469	SSM 916761
P 916470	SSM 916762
P 916471	SSM 916763
P 916472	SSM 916764
P 916473	SSM 916765
P 916474	SSM 916766
P 916475	SSM 916767
P 916476	SSM 916768
P 916477	SSM 916769
P 916478	SSM 916770
P 916479	SSM 916771
P 916480	SSM 916772
P 916481	SSM 916773
P 916482	P 923105
P 916483	P 923106
P 916484	P 923107
	P 923108
P 916485	P 923117
P 916486	P 923118
P 916487	P 923119
P 916488	P 923120
P 916489	P 923129
P 916490	P 923130
P 916491	P 923131
P 916492	P 923132
P 916493	P 923141
P 916494	P 923142
P 916495	P 923143
P 916496	P 923144
P 916497	P 923153
P 916498	P 923154
P 916499	P 923155
SSM 916742	P 923156
SSM 916743	P 932004
SSM 916744	
SSM 916745	P 932005
SSM 916746	P 932006
SSM 916747	P 932007
SSM 916748	P 932008
SSM 916749	P 932009
SSM 916750	P 932010
SSM 916751	P 932011
SSM 916752	P 932012
SSM 916753	P 932013
SSM 916754	P 932014
SSM 916755	P 932015
SSM 916756	SSM 934411
SSM 916757	SSM 934412
SSM 916758	SSM 934413

SSM 934414	SSM 934472
SSM 934415	SSM 934489
SSM 934416	SSM 934490
SSM 934417	SSM 934491
SSM 934418	SSM 934492
SSM 934419	P 948916
SSM 934420	P 948917
SSM 934421	P 948918
SSM 934422	P 948919
SSM 934423	P 948920
SSM 934424	P 948921
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SSM 934426	P 948923
SSM 934427	P 948924
SSM 934428	P 948925
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SSM 934443	P 948940
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SSM 934446	P 948943
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SSM 934458	
SSM 934459	
SSM 934460	
SSM 934469	
SSM 934470	
SSM 934471	

Irving Township

P 916401	P 916431
P 916402	P 916432
P 916403	P 916433
P 916404	P 916434
P 916405	P 916435
P 916406	P 916436
P 916407	P 916437
P 916408	P 916438
P 916409	P 916439
P 916410	P 916440
P 916411	P 916441
P 916412	P 916442
P 916413	P 916443
P 916414	P 916444
P 916415	P 916445
P 916416	P 916446
P 916417	P 916447
P 916418	P 916448
P 916419	P 916449
P 916420	P 916450
P 916421	P 916451
P 916422	P 916452
P 916423	P 916453
P 916424	P 916454
P 916425	P 916455
P 916426	P 916456
P 916427	P 916457
P 916428	P 916458
P 916429	P 916459
P 916430	P 916460
	P 916461
	P 916462
	P 916463



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HAWKINS AND IRVING TOWNSHIPS, ONTARIO

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JUL 28 1987

MINING LANDS SECTION BY

H. FERDERBER GEOPHYSICS LTD.

Val d'OR, Quebec
July 27, 1987

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Geologist.

REPORT ON THE
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ON THE PROPERTY OF
RIVER OAKS GOLD RESOURCES LTD.
ERMINE, IRVING, LIPTON AND LIZAR
TOWNSHIPS, ONTARIO

INTRODUCTION

Between April 13 and May 17, 1987 an airborne geophysical survey was carried out on the property of River Oaks Gold Resources Ltd. in Lipton, Irving, Lizar and Ermine Townships, Ontario. Magnetic and VLF-electromagnetic data was collected by the airborne division of H. Ferderber Geophysics Ltd. The survey was flown from a base at Hearst, Ontario. A total of 736 miles of data was collected.

The magnetic survey provides information which helps define underlying geological structures and identifies any potential economic concentrations from variations in accessory magnetic minerals. The VLF-electromagnetic survey outlines conductive zones which may represent shear zones and/or metallic sulphide deposits containing gold mineralization.

PROPERTY DESCRIPTION, LOCATION AND ACCESS

The River Oaks Gold Resources Ltd. property is comprised of 976 mining claims in Lipton, Irving, Lizar and Ermine Townships, Sault Ste. Marie Mining Division, Ontario. The claims cover approximately 15,616 hectares, as two blocks. The block consisting of 905 claims; extends from the southwestern corner of Lizar Township to the southeastern corner of Lipton Township and into the northwestern corner of Ermine Township. To the east, the second block consisting of 71 claims lies in the northwestern corner of Irving Township. The claims are registered with the Ontario Mining Recorder's office at Sault Ste. Marie and are listed in Appendix I.

The property is located approximately 15 km (9 miles) due west of the small railway village of Dana, and 47 km (28 miles) south-southeast of the the town of Hornepayne and 20 km (13 miles) southwest of the railway village of Oba.

Access to the western block is obtained by taking Highway 583 south from Hearst for 67 km, then travelling on a gravel road for 75 km until reaching the village of Oba. A gravel road west and southwest from Oba through Franz, Hawkins and Derry Township to the northern boundary of Ermine Township passes within 1 km of the northeastern corner of the property at the northern Ermine Township boundary. Access can also be obtained by float/ski plane from Hearst to Kabinakagami Lake, or by boat on the Oba River.

The eastern block, which lies 5 km (3 miles) east of the western block can be accessed by taking a road southeastward for 3 km from the village of Oba to a junction with the road, leading to the village of Langdon. Continue from the junction along the road passing through Langdon. Approximately 14 km (8.5 miles) southwest from Langdon the road reaches the central northern boundary of the eastern claim block. The road, trending southwest, traverses the property.

Approximately one half of the western claim block is forested and the rest of it is covered by Kabinakagami Lake. About 90% of the eastern block is forested and the remainder is covered by an elongated northeast trending lake on the western half of the block and part of another lake along the western boundary of the claim block. The topographic relief is low.

Supplies, services and qualified manpower are available in the Hearst area.

MINING HISTORY

From 1937 to 1939 the Haiwatha Mine, in Lawar Township located off the property and surrounded by claims of the centralwest part of the west block, sank a vertical shaft 299 feet with levels at 150 and 275 feet with 3,394 feet of drifting and 2,717 feet of crosscutting. A 25 ton mill was operated intermittently by Hiawatha Gold Mines Ltd. In 1940, of 1,931

tons of ore milled 179 oz. Au, and 31 oz. Ag were obtained. The average recovery of gold was 0.09 ounces per ton of ore milled.

GEOLOGY

The Ontario Department of Mines Geological Compilation Sheet 2220 Manitowadge-Wawa area is used to describe the geology of the property. The western block is thought to be underlain by two northeast trending bands of mafic meta volcanic rock. The two bands underlie the east and west sides of the claim block and are separated by Archean age metamorphic and felsic intrusive rocks. The metamorphic and felsic intrusive rocks underlie about 20% of the claim block with about 10% separating the bands of metavolcanic rocks, 3% lie along the north side of the western boundary and 7% lie along the eastern boundary. The western band of mafic metavolcanic rock underlies about 20% of the property. In the south it contains a lense of granitic, granodioritic, dioritic trondjhemitic gneisses, and narrow bands or lenses of mafic amphibolitic gneiss and meta sedimentary rocks all trending northeast. The eastern band of mafic metavolcanic rocks underlies approximately 10% of the claim block. The remaining 50% of the western claim block is covered by Lake Kabinakagami.

Au, Ag, Cu, Zn and Pb mineral occurrences on the property are located in the western band of mafic metavolcanic rock. A Mo

mineral occurrence lies in the same metavolcanic band just north of the northern boundary of the claim block. The Au mineralization on the western claim block occurs in auriferous quartz veins associated with, quartz porphyry dykes, porphyry-amphibolite contact zones, and sills. These auriferous quartz veins are also found in shear zones.

The strike of the auriferous quartz veins and/or the associated geological structures varies between 55° and 70° northeast.

The Hiawatha Mine, a past producer, is situated in the western band of metavolcanics of the western claim block. The mine is off the property and inclosed by the central western part of the claim block. The metavolcanics of the mine have been intruded by a narrow quartz porphyry dyke which is bordered to the north by an auriferous quartz vein 2 to 14 inches wide and at least 2,800 feet long. The vein and dyke strike about 65° northeast and dip vertically. They have been offset to the southwest by a fault some 1,300 feet west of the shaft. Associated minerals are pyrite, chalcopyrite, galena and molybdenite.

The eastern claim block is thought to be underlain, 80% by metamorphic and felsic intrusive rock, 10% by mafic metavolcanic rock and the remaining 10% is shown as being covered by lake. The mafic metavolcanic rock lies in the north central part of the claim block, trends northwest off the property and pinches out about 1 mile northwest of the

southeastern corner of the claim block. On the western side of the claim block a northeast trending fault traverses the property and coincides with a linear lake. A northwest trending dyke traverses the property and crosses the fault about halfway between the northern and southern boundary of the claim block. A series of northwest and northeast striking in the area. Rocks underlying the property have been metamorphosed to the upper greenschist-lower amphibolite facies.

INSTRUMENTATION AND SURVEY METHODS

The survey was completed using a Cessna 172, fixed wing aircraft (CF-AAV) owned and operated by H. Ferderber Geophysics Ltd. It was piloted by D. Fauvelle of Val d'Or. The navigator/operator was M. Caron, also from Val d'Or. Geophysical sensors were mounted in modified wing tips. GEM-GSM-9 BA Overhauser Proton Precession Magnetometer and Herz Totem 2AG VLF-electromagnetic systems were used. The magnetometer has a resolution of 0.5 gammas, recorded on analogue tape. The VLF-EM measures the change in total field and vertical quadrature field on two channels simultaneously, with an accuracy of 1%. The data is then transferred to a printer. The transmitting station at Annapolis, Maryland, NSS, frequency 21.4 kilohertz was used.

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SURVEY RESULTS AND INTERPRETATION

Magnetic Survey

Map MG-1 East Claim Block.

The west side of the block is traversed by a narrow north northwest trending magnetic high anomalous zone having magnetic values in excess of 700 gammas above background. This anomalous zone coincides with the position of a diabase dyke thought to underlie the property. A similar narrow magnetic high anomalous zone trends south westward from the anomalous zone near the north boundary of the claim block. A lineation thought to represent a diabase dyke lies along strike about one and one half miles southwest of this second anomalous zone.

To the immediate southeast of and paralleling the southwest trending magnetic anomalous zone disturbances in the magnetic contour pattern appear to coincide with position of a fault assumed to underlie the western part of the claim block.

A broad magnetic low anomalous zone with a shallow gradient lies in the central and southeast part of the claim block. It coincides with metamorphic and felsic intrusive rock thought to underlie that part of the property.

A series of magnetic low anomalies and disturbances in the contour pattern define a narrow north northwest anomalous zone. This zone located on the east part of the claim block may represent a structural break.

The magnetic high anomalous in the northeast corner of the map may reflect underlying metavolcanic rock, thought to underlie the north central part of the property pinching out on the southeast part of the property.

Maps MG-1 & MG-2, WEST BLOCK.

Three narrow, northwest trending magnetic high anomalous zones, traverse the claim block. These anomalous zones, coincide with diabase dykes thought to underlie property. They are located, in the central, the northwestern and the northcentral parts of the property. Where they intersect other magnetic high anomalous zones magnetic peaks occur.

Two short, narrow, east-northeast trending magnetic anomalous zones are located in the north central part of the claim block.

The northern of the two anomalous zones coincides with a diabase dyke whose southern extension is in the proximity of a Cu, Pb mineral occurrence.

In the northeast corner a circular magnetic high anomaly with values up to 2,000 gammas above background levels lies in a magnetic high anomalous zone. The circular magnetic high may represent a basic pluton and the magnetic high anomalous zone could reflect underlying mafic metavolcanics.

Long, broad, magnetic high anomalous zones with high magnetic gradients, and trending northeast lie on the eastern and western sides of the claim block. These are separated by a magnetic low anomalous zone.

The anomalous high zones represent the bands of metavolcanic rocks and the anomalous lows represent the metamorphic and felsic intrusive rocks thought to underlie the property.

The western magnetic high anomalous zone has magnetic values of up to 1,500 gammas above background. The southern part of this anomalous zone east of its magnetic peaks contains magnetic low anomalies and distortions in the contour pattern that appear to coincide with the known Au, Ag, Pb and Zn occurrences. These low magnetic anomalies and distortions in the contour pattern define northeast trending zone that extends from, the group of claims off the property but inclosed by the west claim block, southwest, to the linear magnetic low in the south west corner of the property which is thought to represent a lense of granitic, granodiorite, diorite or trondien tneiss. The southern half of this zone appears paralled by a similar zone of magnetic expressions about one quarter mile east. These two linear zones may represent structural linear zones may represent structural breaks possibly shear zones. The western shoulder of the magnetic high anomalous zone has disturbance in the conntour pattern over a similar northwest trend range.

A linear magnetic high anomalous zone in the south east corner of the claim block trends northward and coincides with a physiographical lineament.

VLF-electromagnetic Survey

Map EM-1 East Block.

Conductive zone 1 is short northwest trending conductor in the southwest corner of the claim block. It appears to cross cut magnetic contour lines having a steep gradient.

Conductive zone 2 is a discontinuous conductor in the southwest of the claim block. The northern part of the zone trends northwest coinciding with a magnetic low anomaly and the southpart trend east-west, cross cutting a narrow high magnetic anomalous zone. It lies south of and parallels a creek and a logging road.

Conductive zone 4 is a long discontinuous conductor. It is located in southeast corner of the claim block, trends northwest and traverses the block. The southern half of the conductive zone coincides with a creek and magnetic low anomalies and the northern half coincides the eastern flank of a magnetic low anomalous zone.

Conductive zone 5 is a long discontinuous north northwest conductor located in the northeast part of the claim block. The northern half coincides with a topographic high and magnetic high anomalous values. The Southern half appears to coincide with wetland just east of creek and lies in a zone of lower magnetic values.

Conductive zones 3, 6 and 7 appear to be the effect of overburden, a lake and a road respectively. Conductive zone 1, 2, 4 and 5 may be bedrock conductors possibly representing structural breaks.

Maps EM-1 and EM-2 WEST BLOCK

Conductive zone 11 is a north-northwest trending discontinuous conductor located along the western shoulder of a narrow magnetic high anomalous zone in the north central part of the claim block.

Conductive zone 12, lies directly south of conductive zone 11 and is along discontinuous northwest trending conductor. It appears to cross cut magnetic high and low anomalous zones and coincides with a physiographical lineament.

Conductive zone 13 is a long continuous conductor in the northeast part of the claim block. It coincides with a magnetic low anomalous zone and traverses topographical highs and lows. It may reflect a possible structural break.

Conductive zone 21 is a discontinuous north-northwest trending conductor. It is located in the northeastern corner of Map EM-2, lies along the western shoulder of a narrow magnetic high anomalous zone and may represent a mineralized contact between a dyke and metavolcanic rock thought to underlie this part of the property.

Conductive zone 24 is a short east-west trending conductor located directly south of conductive zone 21. It is cross cut magnetic contour lines and lies southwest of a magnetic high anomaly, possibly reflects the presence of a structural break.

Conductive 28 is a short northwest trending conductor. It lies in a magnetic high anomalous zone near a magnetic peak. Its northern end coincides with an inlet.

Conductive zone 30 is a long continuous northwest trending conductor. It lies between a magnetic low anomalous zone to the north and magnetic high anomalous zone to the south. It is located in the central western part of the claim block. The northern part of the conductive zone coincides with a linear lake and the conductor may reflect the presence of a structural break.

Conductive zone 31 is a short, continuous, north-northwest trending conductor. It is located south of conductive zone 30 and lies in a magnetic high anomalous zone. It, in part, appears to coincide with the end of a penninsula and the Hiawatha Mine a past Au producer.

Conductive zone 33 is a northwest trending, discontinuous conductor. It coincides with the shoulder of a magnetic high anomalous zone with its central part also coinciding with distortions in the magnetic contour pattern. It is located on the central western part of the property and possibly reflects structural break/shear zone.

Conductive zone 35 is a short, continuous, east-west trending conductor which traverses the central part of the western boundary on Map EM-2. It coincides with distortions in the magnetic contour pattern on the west shoulder of a magnetic high anomalous zone and its western end lies in a magnetic low anomaly. It may represent a shear zone along a contact between the metavolcanics thought to underlie the property and metamorphic and felsic intrusive rocks to the west.

Conductive zone 36 is a long discontinuous conductor. The southern end of the conductor trends south and the northern end trends northwest. The northern part of the conductor lies in a magnetic high anomalous zone and is associated with a disturbance in the magnetic contour pattern and may represent a shear zone. The south part of this zone coincides with a bay.

Conductive zone 37 is a long discontinuous north-northwest trending conductor. To the south it lies in a zone of low magnetic values and to the north it lies in the saddle of a magnetic high anomaly. It coincides with a physiographical lineament and is located south of conductive zone 35.

Conductive zone 38 and 39 are short, trend north and northeast respectively and lie in an area of convoluted magnetic patterns along the western shoulder of a magnetic high anomalous zone. They are located on the southwestern part of the property and may reflect the same possible shear zone as conductor 35.

Conductive zones 40 and 41 are discontinuous, northwest trending conductors except the for northern end of zone 40 which trends northeast. They lie in a magnetic high anomalous zone and are located in the southwest of Map EM-2.

Conductive zone 42 trends northwest, is discontinuous and lies in a magnetic low anomaly in a magnetic high anomalous zone. It is located on the southwest part of map EM-2 and may represent a contact between metavolcanic rock and metamorphic and felsic intrusive rock.

Conductive zone 43 is a discontinuous conductor. Its southern part trends northeast and its northern part trends northwest. It coincides with the edge of a magnetic low anomalous zone and is located in the southwest part of the claim block. Its northern end lies in the vicinity of an Au occurrence.

Conductive zone 44 is a long discontinuous east-west trending conductor. It traverses the south part of the claim block and has high electromagnetic responses that coincide roughly with magnetic peaks and troughs of magnetic anomalous zones.

Conductive zone 45 is a continuous, northwest to west trending conductor. It coincides with the shoulder of a magnetic high anomalous zone and is situated in the south east corner of the property.

Conductive zones 8, 9, 10, 14, 15, 16, 17, 18, 19, 20, 22, 23, 25, 26, 27, 28, 29, 32, 34, 36 south, 44, 46 and 47 appear to be the results of shoreline effect, overburden, topographic features etc.

CONCLUSIONS

The airborne VLF-electromagnetic and magnetic surveys were successful in outlining possible shear zones and helping define the underlying geology of the River Oaks Gold Resources Ltd. property in Ermine, Irving, Lipton and Lizar Townships, Ontario. Rocks of low magnetic susceptibility underlie the central and south central regions of the west claim block and are thought to represent metamorphic and felsic intrusive rocks.

Several probable dykes are defined by a series of narrow magnetic high anomalous zones that strike approximately north westward across the property. The magnetic high anomalous zones that trend north eastward along the eastern and western sides of the claim block probably represent bands of mafic metavolcanic rock. The magnetic low anomalies in the south western part of the west magnetic high anomalous zone may reflect the presense of lenses of granitic, dioritic or trondjhemitic, gneisses. Disturbances in the magnetic contour pattern along, the eastern and western shoulders of the south western part of the western magnetic high anomalous zone may represent shear zones within the metavolcanic or along a contact between the metavolcanic and metamorphic and felsic intrusive rocks.

The circular magnetic high anomaly near the central north part of the claim block possibly represents a basic pluton and the associated magnetic high anomalous zone to its east probably represents metavolcanic rock.

Rocks of high magnetic susceptibility underlie the westside and northeast corner of the east claim block on the westside of the block. The northwest and northeast trending narrow magnetic high anomalous zones are probable dykes and the northeast trending high anomalous zone is presumed to be paralleled to the south by a fault, defined by disturbances in the magnetic contour pattern.

The magnetic high anomalous zone in the northeast corner of the claim block could represent metavolcanic rocks. A series of magnetic low anomalies trending north northwest from the southeast corner and disturbances in the magnetic contour pattern could represent a structural break.

Forty seven conductive zones were outlined on the property. Of the conductive zones, zones 1, 2, 4, 5, 11, 12, 13, 21, 24, 30, 31, 33, 35, 36 north, 37, 38, 39, 40, 41, 42, 43 and 45 appear to represent bedrock conductors. Conductive zones 1, 2, 4, 5, 12, 13, 24, 31, 33, 35, 36 north, 37, 38, 39, 40, 41, 42 and 43 possibly represent structural breaks. Conductive zones 11, 21, 30 and 45 may represent conductors along geologic contacts.

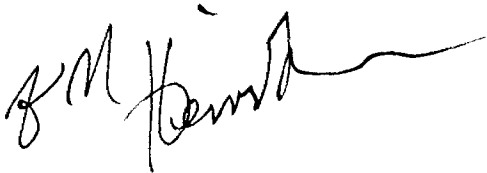
RECOMMENDATIONS

Further work is warranted on the property especially in the areas of, the above mentioned conductors, the circular magnetic high anomaly on the westblock, the southern part of the magnetic high anomalous zone on the westblock and the south western corner of the east block.

An exploration program of ground geophysics should be undertaken over selected anomalous areas of the property. A combined gradient-total magnetic survey and horizontal loop-electromagnetic survey, followed up by induced polarization over electromagnetic conductors of primary interest, should be performed in the selected areas. Geophysical anomalies should then be tested by diamond drilling.

Respectfully submitted,

H.FERDERBER GEOPHYSICS LTD.

A handwritten signature in black ink, appearing to read "G.N. Henriksen", with a long horizontal flourish extending to the right.

G.N. Henriksen B.Sc.
Geologist.

July 27, 1987
Val d'Or, Quebec

APPENDIX 1 - CLAIM LIST

Lizar Township

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Irving Township

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P 931538	P 931572	P 906835
P 931539	P 931573	P 906836
P 931540	P 931574	P 906837
P 931541	P 931575	P 906838
P 931542	P 931576	
P 931543	P 931577	
P 931544	P 931578	
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P 931584

Lipton Township

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SSM 971967
SSM 971968

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SSM 972047

SSM 972087
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SSM 972093
SSM 972094



42F01SE0007 2.10254 HAWKINS

900

Type of Work: AIRBORNE MAGNETOMETER VLF-EM
 Township or Area: ERMINE/IRVING
 Claim Holder(s) (ERMINE) (IRVING)
 Prospector's Licence No. (M21107), (M20603), (M23578)
 Address: SALO, RANDY (M21107), MORTSON, BRUCE (K19157), LACROIX, DANIEL (M20603), CADA, ROBERT (M23578)
 Survey Company: H. FERDERBER GEOPHYSICS LTD.
 Date of Survey (from & to): 14 05 87 to 17 05 87
 Total Miles of line: 235
 Name and Address of Author (of Geo-Technical report): R.A. CAMPBELL, 169 PERREAULT AVENUE, VAL D'OR QUEBEC J9P 2H1

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
For each additional survey: using the same grid: Enter 20 days (for each)	- Other	
	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits	Electromagnetic	Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	VLF	30
	Magnetometer	30
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
LISTS ATTACHED					
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> SAULT STE MARIE MINING DIV. RECEIVED JUN - 8 1987 A.M. 7 8 9 10 11 12 P.M. 1 2 3 4 5 6 </div>					
<div style="border: 2px solid black; padding: 5px; display: inline-block;"> RECORDED JUN 8 1987 Receipt No. _____ </div>					

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures: S ÷ 15 =

Total Days Credits

Instructions: Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **235**

Date: JUNE 2, 1987
 Recorded Holder or Agency (Signature): *[Signature]*

For Office Use Only

Total Days Cr. Recorded: 14,100
 Date Recorded: JUN 8 1987
 Date Approved as Recorded: 87/08/05
 Mining Recorder: *[Signature]*
 Branch Director: *[Signature]*

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying: DON MCKINNON, BOX 1130, TIMMINS, ONTARIO P4N 7S6

Date Certified: JUNE 2, 1987
 Certified by (Signature): *[Signature]*

PRIME TWO

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 P, 916702 ✓

LINE TWO

910412	910412	910412	910412
910413	910413	910413	910413
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910415	910415	910415	910415
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910445	910445	910445	910445



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

210254

W.R. #95/87
The Mining Act

- Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below. T.S.

Type of Survey(s) AIRBORNE MAGNETOMETER VLF-EM		Township or Area HAWKINS	
Claim Holder(s) SEE ATTACHED LIST		Prospector's Licence No. SEE ATTACHED LIST	
Address BOX 1130, TIMMINS ONTARIO P4N 7S6			
Survey Company H. FERDERBER GEOPHYSICS LTD.		Date of Survey (from & to) 15 05 87 16 05 87 Day Mo. Yr. Day Mo. Yr.	
Name and Address of Author (of Geo-Technical report) R. A. CAMPBELL, 169 PERREAULT AVENUE, VAL D'OR, QUEBEC J9P 2H1		Total Miles of line-cut FLOWN 278	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
For each additional survey: using the same grid: Enter 20 days (for each)	Geochemical	
	Geophysical	
	Days per Claim	
Man Days Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	30
	VLF Magnetometer	30
	Radiometric	
	Days per Claim	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
	LIST ATTACHED				

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures		÷	15	=	Total Days Credits
\$					

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

SAULT STE. MARIE
MINING DIV.
RECEIVED
MAY 26 1987
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

RECORDED
MAY 26 1987
Receipt No. _____

Date **MAY 21, 1987**

Recorded Holder or Agent (Signature)
[Signature]

Total number of mining claims covered by this report of work. 278 ✓

For Office Use Only

Total Days Cr. Recorded 16,680	Date Recorded May 26/87	Mining Recorder <i>[Signature]</i>
	Date Approved as Recorded 87/08/05	Branch Director <i>[Signature]</i>

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying
DON MCKINNON, BOX 1130, TIMMINS, ONTARIO P4N 7S6

Date Certified
MAY 21, 1987

Certified by (Signature)
[Signature]

Hawkins - 278
Riverwalk

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SAULT STE. MARIE
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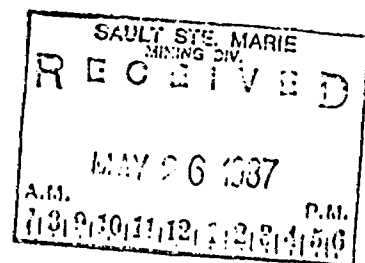
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SAULY STE. MARIE
 SHIPPING DIV.
RECEIVED
 MAY 26 1937
 A.M. P.M.
 7 8 9 10 11 12 1 2 3 4 5 6

CLAIM HOLDERS - 278 CLAIMS HAWKINS TOWNSHIP

BEAUDOIN, ADRIEN	M 18830 ✓
BOA, NOLAN	H 8687 ✓
CLARK, TERRY	C 35959
LACROIX, DANIEL	M 20603 ✓
MCNEIL, DON	M 23605 ✓
RANGER, MARK	M 23639 ✓
ST. LOUIS, HERVE	M 21084 ✓



Mining Act

Aug 8

Type of Survey(s) AIRBORNE MAGNETOMETER VLF-EM	Township or Area LIZAR		
Claim Holder(s) DAVE DAVIDSON	Prospector's Licence No. M 23635		
Address C/O BOX 1130, TIMMINS, ONTARIO P4N 7S6			
Survey Company H. FERDERBER GEOPHYSICS LTD.	Date of Survey (from & to) 13 04 87 17 04 87 <small>Day Mo. Yr. Day Mo. Yr.</small>	Total Miles of line <small>or</small> FLOWN 60	
Name and Address of Author (of Geo-Technical report) R.A. CAMPBELL, 169 PERREAULT AVENUE, VAL D'OR QUEBEC J9P 2H1			

Credits Requested per Each Claim in Columns at right		
Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
For each additional survey: using the same grid: Enter 20 days (for each)	Geological	
	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	Other Geological	
	Geochemical	
Airborne Credits	Days per Claim	
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	30
	VLF Magnetometer	30
	Radiometric	

Mining Claims Traversed (List in numerical sequence)					
Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
SEE ATTACHED LIST					

RECEIVED
JUN 21 1987

RECEIVED
MINING LANDS SECTION
Electromagnetic VLF Magnetometer

SAULT STE. MARIE MINING DIV.
RECEIVED
JUN 19 1987
A.M. 7 8 9 10 11 12 1 2 3 4 5 6 P.M.

RECORDED
JUN 19 1987
Receipt No. _____

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits
Total Expenditures S ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. 60

Date **JUNE 16, 1987** Recorded Holder or Agent (Signature) *[Signature]*

For Office Use Only

Total Days Cr. Recorded 3,600	Date Recorded <i>June 19/87</i>	Mining Recorder <i>[Signature]</i>
Date Approved as Recorded <i>87/06/05</i>	Branch Director <i>[Signature]</i>	

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

Name and Postal Address of Person Certifying
DON MCKINNON, BOX 1130, TIMMINS, ONTARIO P4N 7S6

Date Certified **JUNE 16, 1987** Certified by (Signature) *[Signature]*



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

534
210254
W.R. #103-87
The Mining Act

July 23

Type of Survey(s) AIRBORNE MAGNETOMETER VLF-EM	Township or Area LIZAR.
Claim Holder(s) SEE ATTACHED LIST	Prospector's Licence No. SEE ATTACHED LIST
Address BOX 1130, TIMMINS, ONTARIO P4N 7S6	
Survey Company H. FERDERBER GEOPHYSICS LTD.	Date of Survey (from & to) 13 Day 04 Mo. 87 Yr. 17 Day 04 Mo. 87 Yr.
Name and Address of Author (of Geo-Technical report) R.A. CAMPBELL, 169 PERREAULT AVENUE, VAL D'OR QUEBEC J9P 2H1	
Total Miles of line-Gar- Flown 383	

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric - Other	
	Geological	
	Geochemical	
Man Days Complete reverse side and enter total here	Geophysical - Electromagnetic - Magnetometer - Radiometric	Days per Claim
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic Magnetometer VLF Radiometric	Days per Claim 30 30

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
see attached list					
RECEIVED SAULT STE. MARIE MINING DIV. JUN 3 1987 A.M. 7 8 9 10 11 12 1 2 3 4 P.M.					
RECORDED JUN 3 1987 Receipt No. _____					

Expenditures (excludes power stripping)

Type of Work Performed DECEIVED
Performed on Claim(s) 1st rec'd MAY 15 1987
Calculation of Expenditure Days Credits Total Expenditures ÷ 15 = Total Days Credits \$ _____ ÷ 15 = _____
Instructions Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work. **323**

Date MAY 8, 1987	Recorded Holder or Agent (Signature) <i>[Signature]</i>
---------------------	--

For Office Use Only		Mining Recorder	
Total Days Cr. Recorded 19,380	Date Recorded June 3/87	<i>[Signature]</i>	
Date Approved, as Recorded 87/08/05		Branch Director <i>[Signature]</i>	

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying DON MCKINNON, BOX 1130, TIMMINS, ONTARIO P4N 7S6	Date Certified	Certified by (Signature) //
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LIZAR TWP.

P.895031	P.895083	P.916539
P.895032	P.895084	P.916540
P.895033	P.895085	P.916541
P.895034	P.895086	P.916542
P.895035	P.895087	P.916543
P.895036	P.895088	P.916544
P.895037	P.895089	P.916545
P.895038	P.895090	P.916546
P.895039	P.895091	P.916547
P.895040	P.895092	P.916548
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P.895046	P.895098	P.916554
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P.895050	P.895102	P.916559
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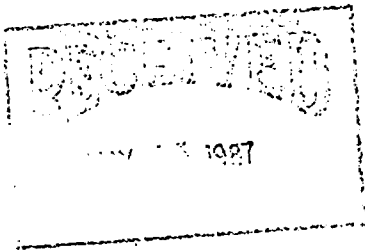
✓ P.934265
P.934266
P.934267
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P.934332
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P.934346
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P.934349
✓ P.934350

323
CLAIM HOLDERS - ~~383~~ CLAIMS LIZAR TOWNSHIP

CLARK, TERRY	C 35959
DAVIDSON, DAVE	M 23635
HILTS, KIRK	M 23598
MCINTOSH, GORDON	M 14069
SALO, LARRY	M 20010
SALO, RANDALL	M 21107



CLAIM HOLDERS - 177 CLAIMS ERMINE TOWNSHIP

ALLARD, MARIO
COTE, REAL
FAUCHER, MICHEL
LANGLOIS, DANIEL

D 18284 ✓
K 21540 ✓
K 21573 ✓
K 21572 ✓

CLAIM HOLDERS - 16 CLAIMS LIPTON TOWNSHIP -

ALLARD, MARIO
MORISSETTE, PATRICE

D 18284
K 21539 ✓

CLAIM HOLDERS - 228 CLAIMS LIZAR TOWNSHIP

ALLARD, MARIO
FAUCHER, ROBERT
LANGLOIS, DANIEL
MORISSETTE, PATRICE

D 18284
M 23908
K 21572
K 21539

LIFTON

SSN, 971963 ✓
 SSN, 971964 ✓
 SSN, 971965 ✓
 SSN, 971966 ✓
 SSN, 971967 ✓
 SSN, 971968 ✓
 SSN, 972046 ✓
 SSN, 972047 ✓

SSN, 972087 ✓
 SSN, 972088 ✓
 SSN, 972089 ✓
 SSN, 972090 ✓
 SSN, 972091 ✓
 SSN, 972092 ✓
 SSN, 972093 ✓
 SSN, 972094 ✓



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) Airborne VLF-Electromagnetic & Magnetic

Township or Area Hawkins and Irving Townships

Claim Holder(s) Please see attached list

Appendix I I

Survey Company H. Ferderber Geophysics Ltd.

Author of Report G.N. Henriksen B.Sc.

Address of Author 169 Perreault, Val d'Or, Que. J9P 2H1

Covering Dates of Survey May 15 to 17, 1987
(linecutting to office)

Total Miles of ^{Flown} ~~Linecut~~ 335.1 miles

MINING CLAIMS TRAVERSED
List numerically

P906181 et.al
(prefix) (number)
Please see attached
claim list Appendix I

If space insufficient, attach list

**SPECIAL PROVISIONS
CREDITS REQUESTED**

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

- Geophysical
 - Electromagnetic _____
 - Magnetometer _____
 - Radiometric _____
 - Other _____
- Geological _____
- Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer 32 Electromagnetic 32 Radiometric _____
(enter days per claim)

DATE: July 17, 1988 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications 2.10136

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 341

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____

(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION

RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____
Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____
Values measured _____
Energy windows (levels) _____
Height of instrument _____ Background Count _____
Size of detector _____
Overburden _____
(type, depth -- include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____
Instrument _____
Accuracy _____
Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) VLF-EM and Magnetometer
Instrument(s) Herz Totem ZAG and GEM GSM-9BA
(specify for each type of survey)
Accuracy 1% and 0.5 gammas
(specify for each type of survey)
Aircraft used Cessna 172
Sensor altitude 250 feet
Navigation and flight path recovery method Visual navigation on airphoto-mosaic
manual fiducial points
Aircraft altitude 250 feet Line Spacing 440 feet
Miles flown over total area 335.1 miles Over claims only 270.5 miles

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
 p. p. m.
 p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, -(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

APPENDIX 1 - CLAIM LIST

Hawkins Township

P 906181	P 906927
P 906182	P 906928
P 906183	P 906929
P 906184	P 906930
P 906185	P 906931
	P 906932
P 906186	P 906933
P 906187	P 906934
P 906188	P 906935
P 906189	P 906936
P 906190	P 906937
P 906191	P 906938
P 906192	P 906939
P 906193	P 906940
P 906194	P 906941
P 906195	P 906942
P 906196	P 906943
P 906197	P 906944
P 906198	P 906945
P 906199	P 906946
P 906200	P 906947
P 906901	P 906948
P 906902	P 906949
P 906903	P 906950
P 906904	P 915278
P 906905	P 915279
P 906906	P 915280
P 906907	P 915281
P 906908	P 915282
P 906909	P 915283
P 906910	P 915284
P 906911	P 915285
P 906912	P 915286
P 906913	P 915287
P 906914	P 915288
P 906915	P 915289
P 906916	P 915290
P 906917	P 915291
P 906918	P 915292
P 906919	P 915293
P 906920	P 915294
P 906921	P 915295
P 906922	P 915296
P 906923	P 915297
P 906924	P 916464
P 906925	P 916465
P 906926	P 916466

P 916467	SSM 916759
P 916468	SSM 916760
P 916469	SSM 916761
P 916470	SSM 916762
P 916471	SSM 916763
P 916472	SSM 916764
P 916473	SSM 916765
P 916474	SSM 916766
P 916475	SSM 916767
P 916476	SSM 916768
P 916477	SSM 916769
P 916478	SSM 916770
P 916479	SSM 916771
P 916480	SSM 916772
P 916481	SSM 916773
P 916482	P 923105
P 916483	P 923106
P 916484	P 923107
	P 923108
P 916485	P 923117
P 916486	P 923118
P 916487	P 923119
P 916488	P 923120
P 916489	P 923129
P 916490	P 923130
P 916491	P 923131
P 916492	P 923132
P 916493	P 923141
P 916494	P 923142
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P 916497	P 923153
P 916498	P 923154
P 916499	P 923155
SSM 916742	P 923156
SSM 916743	P 932004
SSM 916744	
SSM 916745	P 932005
SSM 916746	P 932006
SSM 916747	P 932007
SSM 916748	P 932008
SSM 916749	P 932009
SSM 916750	P 932010
SSM 916751	P 932011
SSM 916752	P 932012
SSM 916753	P 932013
SSM 916754	P 932014
SSM 916755	P 932015
SSM 916756	SSM 934411
SSM 916757	SSM 934412
SSM 916758	SSM 934413

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SSM 934417	SSM 934491
SSM 934418	SSM 934492
SSM 934419	P 948916
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SSM 934470	
SSM 934471	

Irving Township

P 916401	P 916431
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P 916403	P 916433
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P 916413	P 916443
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P 916416	P 916446
P 916417	P 916447
P 916418	P 916448
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P 916421	P 916451
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P 916426	P 916456
P 916427	P 916457
P 916428	P 916458
P 916429	P 916459
P 916430	P 916460
	P 916461
	P 916462
	P 916463

APPENDIX II

CLAIM HOLDERS

BEAUDOIN, ADRIEN	M 18830
BOA, NOLAN	H 8687
CLARK, TERRY	C 35959
LACROIX, DANIEL	M 20603
MCNEIL, DON	M 23605
RANGER, MARK	M 23639
ST. LOUIS, HERVE	M 21084
MORTSON, BRUCE	K 19157
CADA, ROBERT	M 23578



Ontario

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) Airborne VLF-electromagnetic and Magnetic
Township or Area Ermine, Irving, Lipton, Lizar Townships
Claim Holder(s) see attached list

Survey Company H. Ferderber Geophysics Ltd.
Author of Report G.N. Henriksen
Address of Author 169 Perreault Ave., Val d'Or, Qc
Covering Dates of Survey April 13 to May 17, 1987
Total Miles of Line ~~Cx~~ flown 900.5 miles

MINING CLAIMS TRAVERSED
List numerically
P.895031 et.al.
(prefix) (number)
see attached list

SPECIAL PROVISIONS
CREDITS REQUESTED
Geophysical
-Electromagnetic
-Magnetometer
-Radiometric
-Other
Geological
Geochemical
DAYS per claim

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer 30 Electromagnetic 30 Radiometric
(enter days per claim)

DATE: July 26, 1987 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys
Table with columns: File No., Type, Date, Claim Holder

TOTAL CLAIMS 976

OFFICE USE ONLY

If space insufficient, attach list

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____ VLF-EM and Magnetometer

Instrument(s) _____ Herz Totem ZAG and GEM GSM-9BA

Accuracy _____ 1% and 0.5 gammas

Aircraft used _____ Cessna 172, fixed wing aircraft (CF-AAV)

Sensor altitude _____ 250 feet

Navigation and flight path recovery method _____ Visual navigation on airphotomosaic

_____ manual fiducial points.

Aircraft altitude _____ 250 feet

Line Spacing _____ 440 feet

Miles flown over total area _____ 900.5 miles

Over claims only _____ 736 miles

611 Claims Lizar Township

T. Clark
D. Davidson
K. Hilts
G. McIntosh
L. Salo
R. Salo
P. Morissette
M. Allard
R. Faucher
D. Langlois

278 Claims Ermine Township

R. Salo
R. Coté
M. Allard
M. Faucher
D. Langlois

71 Claims Irving Township

B. Mortson
D. Lacroix
R. Cada

16 Claims Lipton Township

P. Morissette
M. Allard

APPENDIX 1 - CLAIM LIST

Lizar Township

P 895031	P 895083	P 916539
P 895032	P 895084	P 916540
P 895033	P 895085	P 916541
P 895034	P 895086	P 916542
P 895035	P 895087	P 916543
P 895036	P 895088	P 916544
P 895037	P 895089	P 916545
P 895038	P 895090	P 916546
P 895039	P 895091	P 916547
P 895040	P 895092	P 916548
P 895041	P 895093	P 916549
P 895042	P 895094	P 916550
P 895043	P 895095	P 916551
P 895044	P 895096	P 916552
P 895045	P 895097	P 916553
P 895046	P 895098	P 916554
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Irving Township

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Lipton Township

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SSM 971968

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Lipton Twp (M-1298)

Derry Twp. (M-1243)

THE TOWNSHIP OF

LIZAR

DISTRICT OF ALGOMA

SAULT STE. MARIE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

- PATENTED LAND ⊙ or ⊕
- CROWN LAND SALE C.S.
- LEASES ⊙
- LOCATED LAND Loc
- LICENSE OF OCCUPATION L.O.
- MINING RIGHTS ONLY M.R.O.
- SURFACE RIGHTS ONLY S.R.O.
- ROADS —
- IMPROVED ROADS —
- KING'S HIGHWAYS —
- RAILWAYS —
- POWER LINES —
- MARSH OR MUSKOGEE —
- MINES —
- CANCELLED —
- PATENTED S.R.O. —

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

Ry 10, Ry 24 Surface Rights L.O.

DATE OF ISSUE

JUN 23 1987

SAULT STE MARIE MINING RECORDER'S OFFICE

PLAN NO. M-1299

ONTARIO MINISTRY OF NATURAL RESOURCES SURVEYS AND MAPPING BRANCH

Breckenridge Twp. (M-1225)

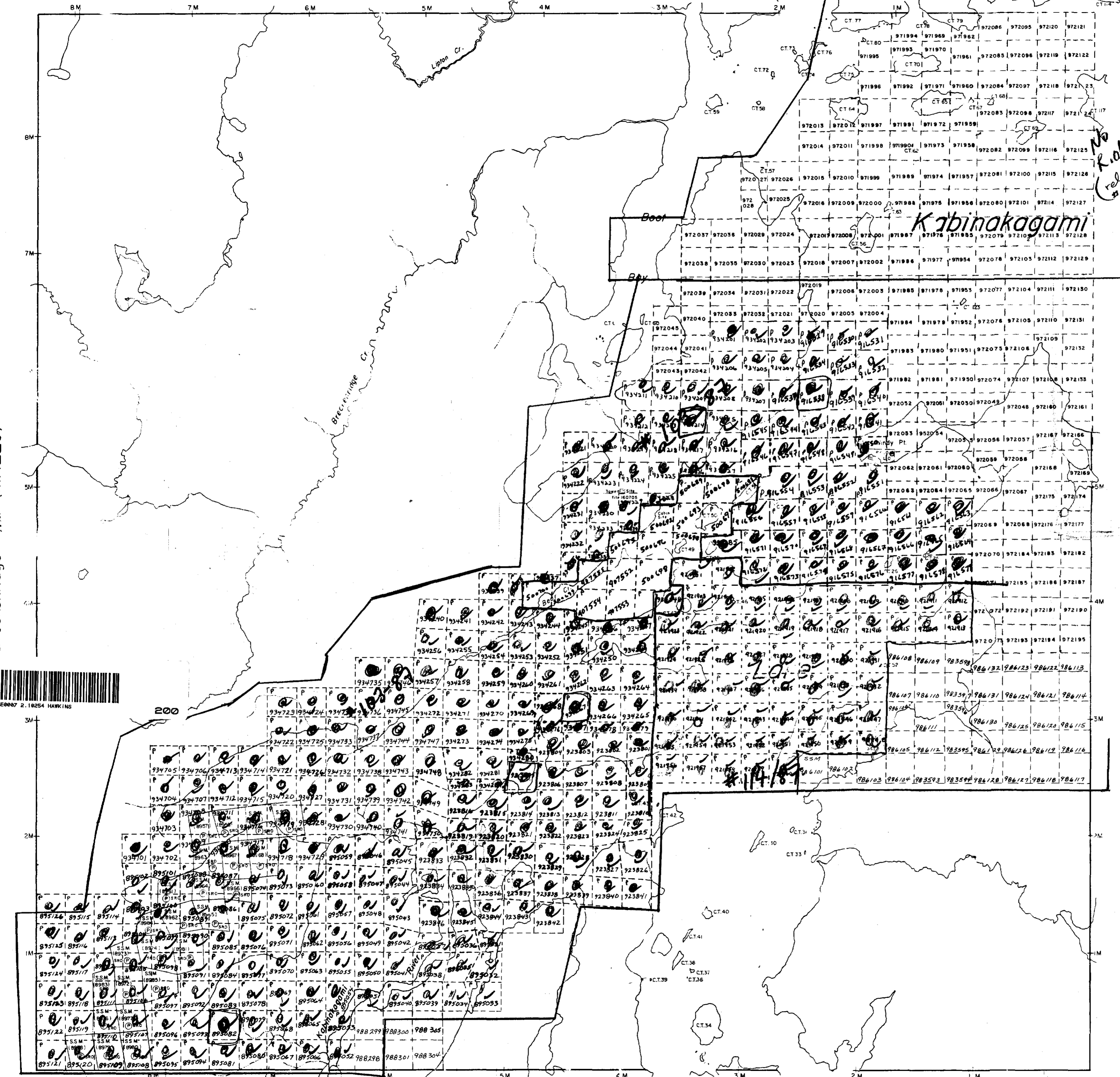
Ermine Twp (M-1249)

Mosambik Twp. (M-1319)



No R.O.W. (related to #10987)

Kabinakagami



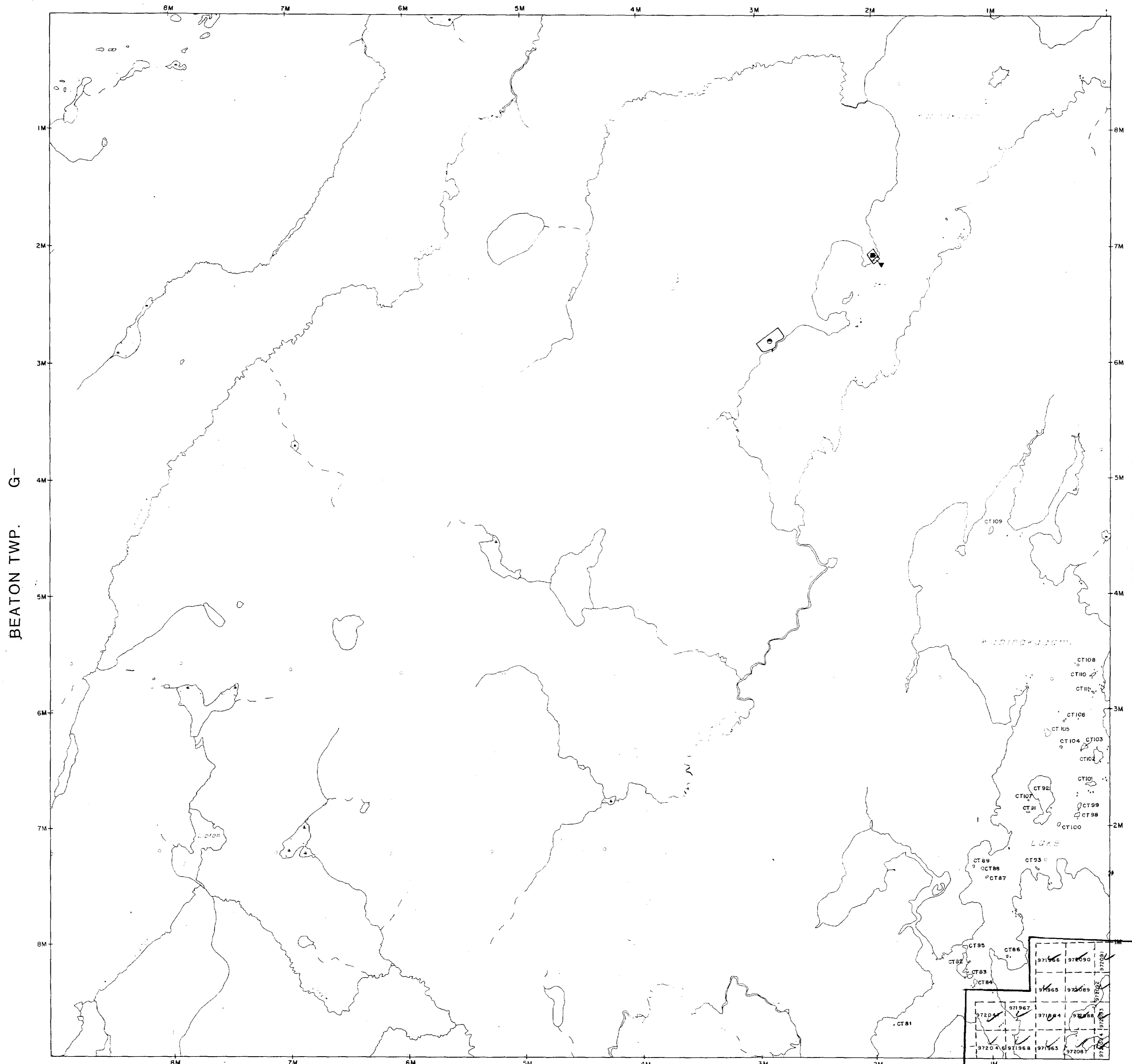
REFERENCE

AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File

LASCELLES TWP. G-



REFERENCE

DATE OF ISSUE

MAR 6 - 1987

SAULT STE MARIE
MINING RECORDER'S OFFICE

LEGEND

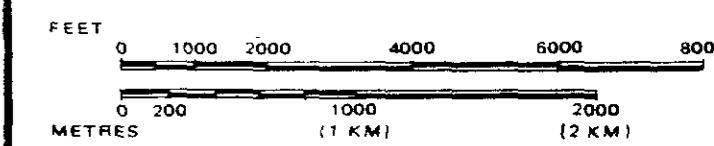
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS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

DISPOSITION OF CROWN LANDS

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

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



TOWNSHIP

LIPTON

M.N.R. ADMINISTRATIVE DISTRICT

HEARST

MINING DIVISION

SAULT STE. MARIE

LAND TITLES / REGISTRY DIVISION

ALGOMA

Ministry of Natural Resources
Land Management Branch

Date DECEMBER, 1982

Number

G-2291

STATE OF ONTARIO
REGISTRY
6

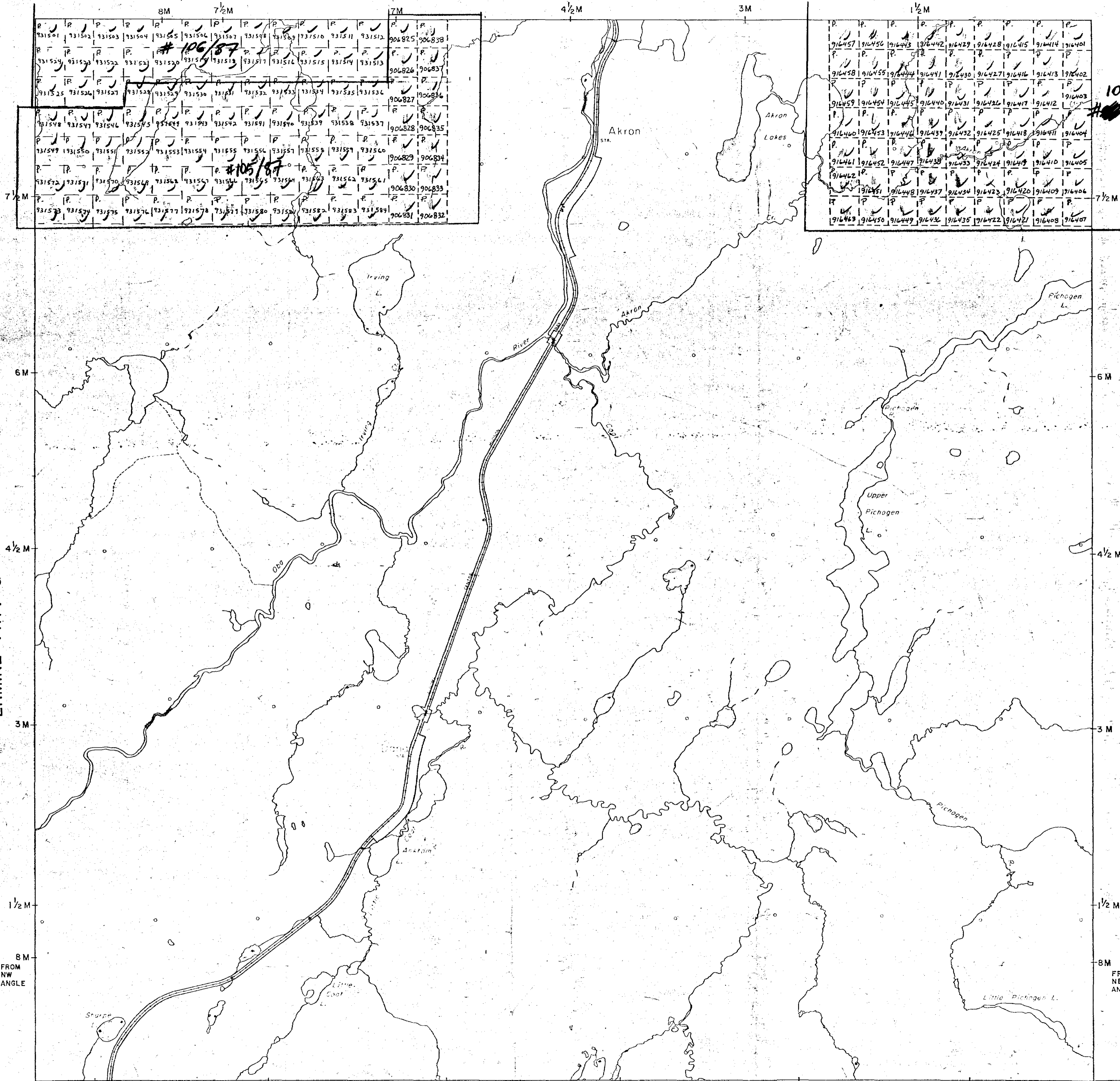


427015E9887 2-10254 HAWKINS

AREAS WITHDRAWN FROM DISPOSITION

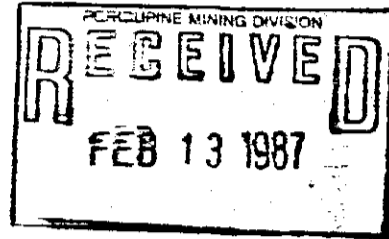
- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File



Order No.	Date	Disposition	File
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Order No.	Date	Disposition	File
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916561	916562	916563	916564
916565	916566	916567	916568
916569	916570	916571	916572
916573	916574	916575	916576
916577	916578	916579	916580
916581	916582	916583	916584
916585	916586	916587	916588
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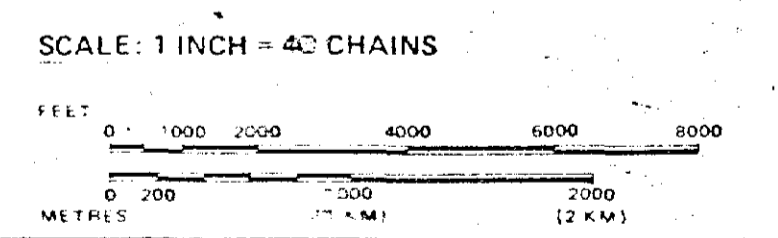
LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	□
" MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
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.



TOWNSHIP

IRVING

M.N.R. ADMINISTRATIVE DISTRICT

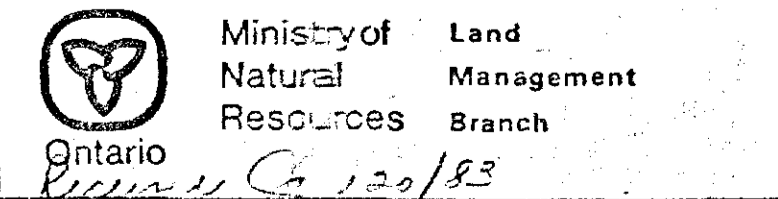
HEARST

MINING DIVISION

SAULT STE. MARIE

LAND TITLES / REGISTRY DIVISION

ALGOMA



Date: DECEMBER, 1982

Number: **G-2289**



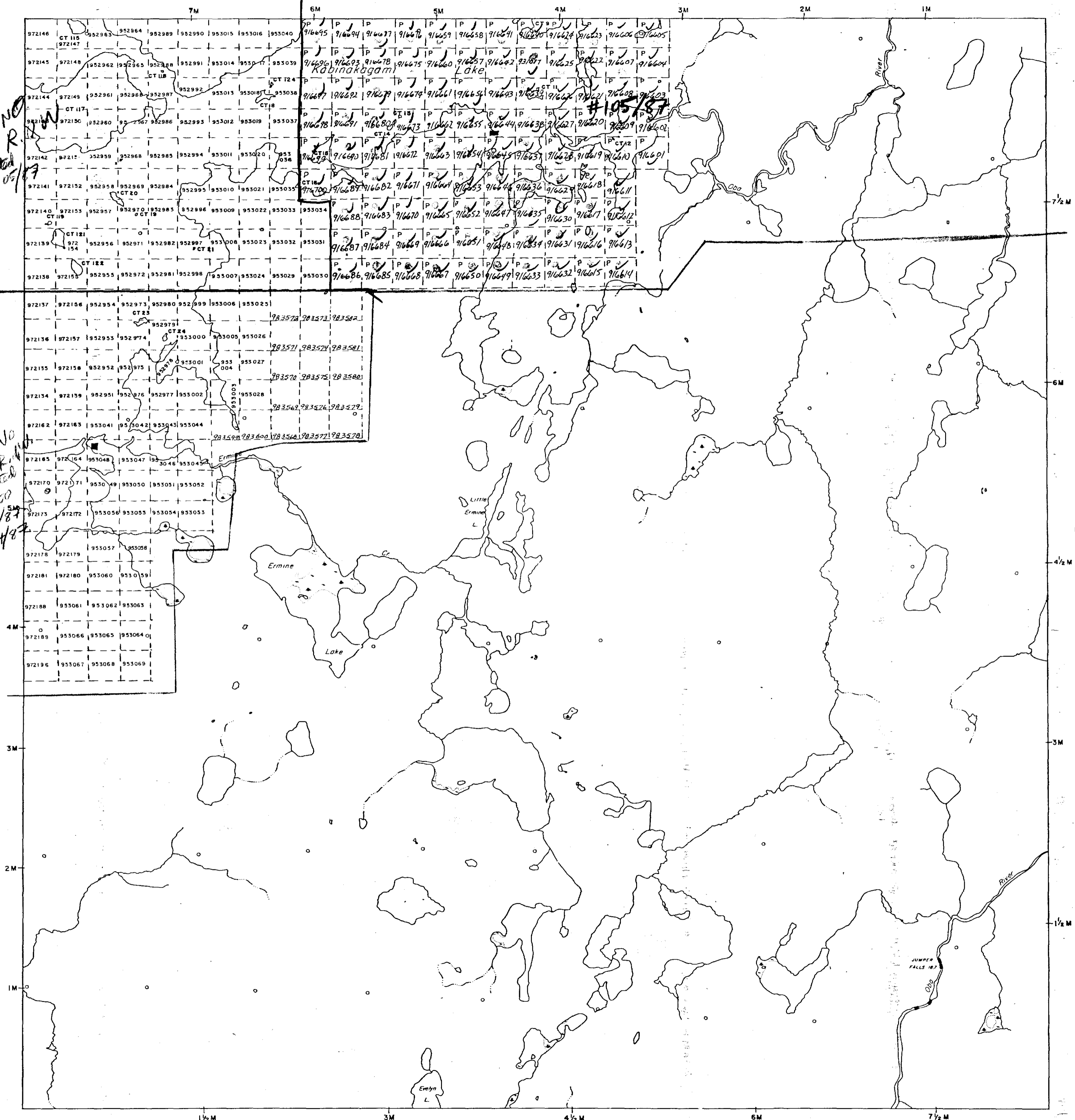
REFERENCE

AREAS WITHDRAWN FROM DISPOSITION

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

Description Order No. Date Disposition File

DERRY TWP. G-



NO
R
#105/87

NO
G
#102/87
#114/87

REFERENCE

DATE OF ISSUE
APR 24 1987
SAULT STE MARIE
MINING RECORDER'S OFFICE
L.U.P.

LEGEND

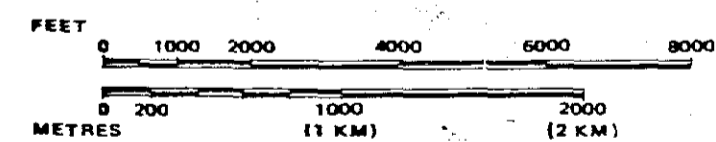
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION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

DISPOSITION OF CROWN LANDS

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

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 390, SEC. 63, SUBSEC.

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

ERMINE

M.N.R. ADMINISTRATIVE DISTRICT
HEARST

MINING DIVISION
SAULT STE. MARIE
LAND TITLES / REGISTRY DIVISION
ALGOMA

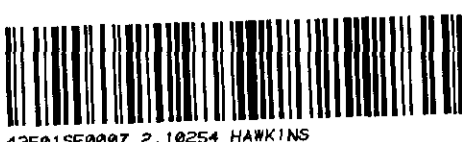
Ministry of Natural Resources
Land Management Branch
Ontario

Received July 4/86

Date DECEMBER, 1982

Checked by SD
Checked by CJ

G-2291



42F01SE0007 2.10254 HAWKINS

CARNEY TWP. G-

FRANZ TWP.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File
(3)		4/16/72		64585

DATE OF ISSUE
APR 16 1987

MINING RECORDERS OFFICE
APR 16 1987

SAULT STE MARIE
MINING RECORDERS OFFICE

LEGEND

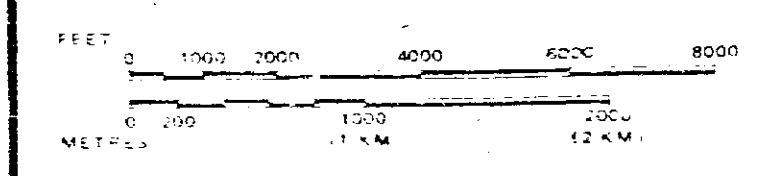
- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC
- LOTS, MINING CLAIMS, PARCELS, ETC
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS, ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	⊙
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	⊙
LEASE, SURFACE & MINING RIGHTS	⊙
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	⊙
LICENSE OF OCCUPATION	⊙
ORDER OF COUNCIL	⊙
RESERVATION	⊙
CANCELLED	⊙
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS 5 & 6 ARE RESERVED BY THE T.O.B.C. LANDS ACT, R.S.O. 1970, CHAP. 360, SEC. 43, SUBSEC. 1.

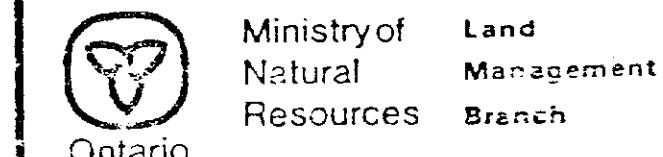
SCALE: 1 INCH = 40 CHAINS



TOWNSHIP

HAWKINS

M.N.R. ADMINISTRATIVE DISTRICT
HEARST
MINING DIVISION
SAULT STE. MARIE
LAND TITLES/REGISTRY DIVISION
ALGOMA



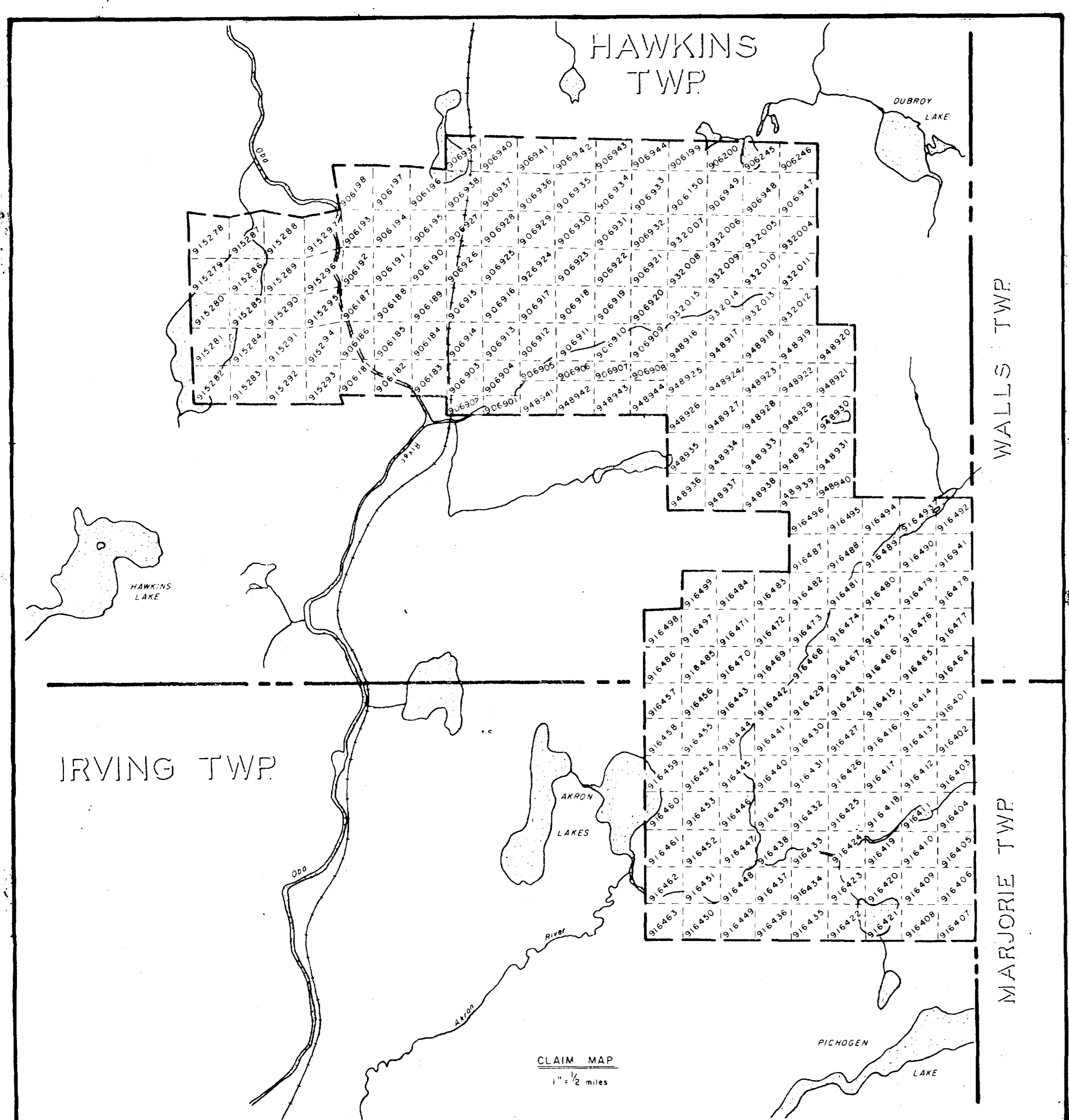
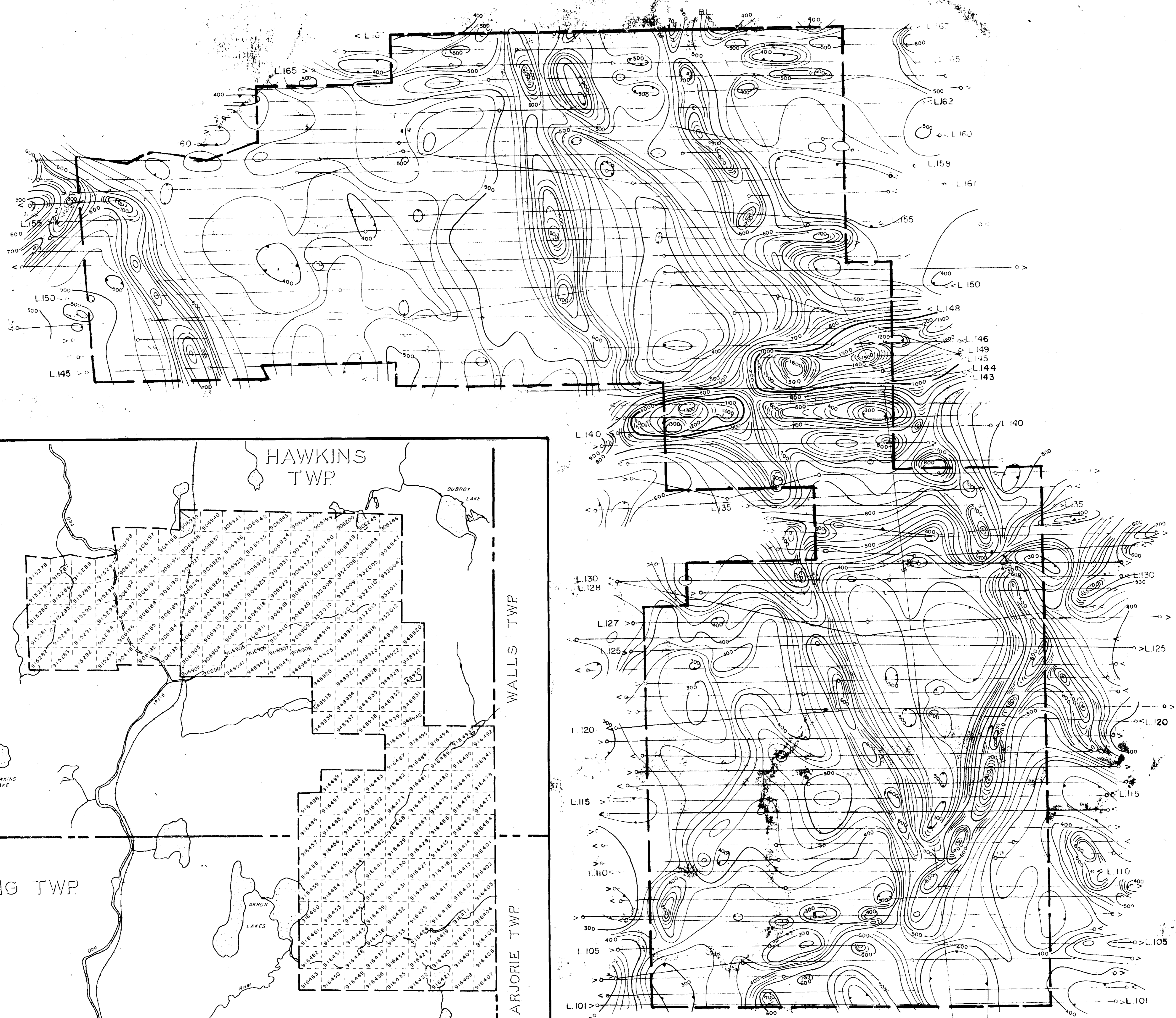
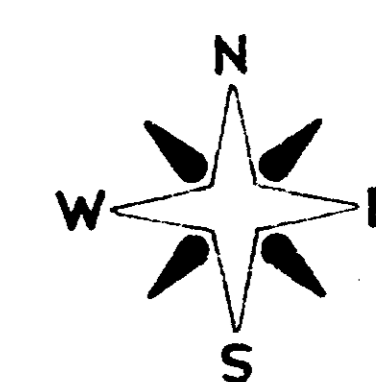
Date: MARCH 3, 1983
Checked by: LP
G-2316

DERRY TWP.

WALLS TWP.

IRVING TWP.



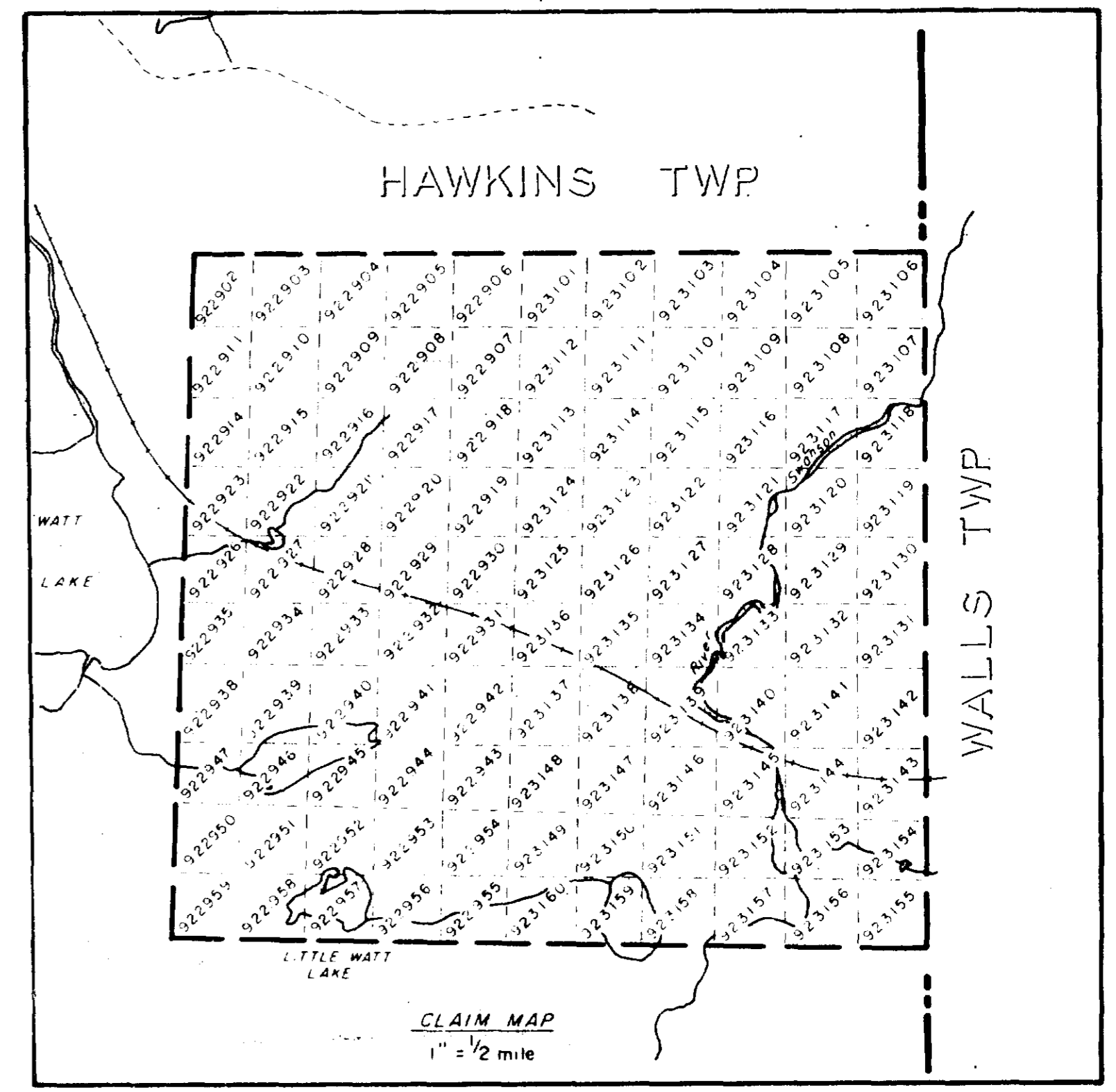
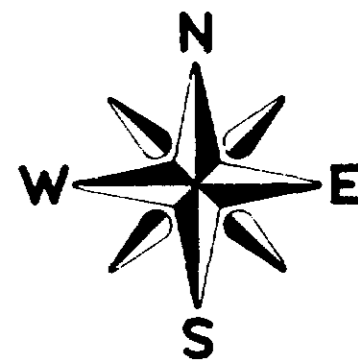


LEGEND

- TOTAL FIELD CONTOUR INTERVAL 25 GAMMAS
- FIDUCIAL POINT
- ▽ LINE DIRECTION
- BASE VALUE 59000 GAMMAS
- ⊖ MAGNETIC LOW
- 25 GAMMAS
- 100 GAMMAS
- 1000 GAMMAS


TYPE OF WORK		AIRBORNE MAGNETIC SURVEY	
CLIENT			
RIVER OAKS GOLD RESOURCES LTD.			
PROJECT	AREA	DATE	
SOUTH BLOCK	HAWKINS, IRVING TWPS. ONT.	JULY 1987	
DRAWN BY		SCALE	MAP OR SHEET NO.
H. Ferderber Geophysics Ltd.		1" = 1/4 mile	MG-1



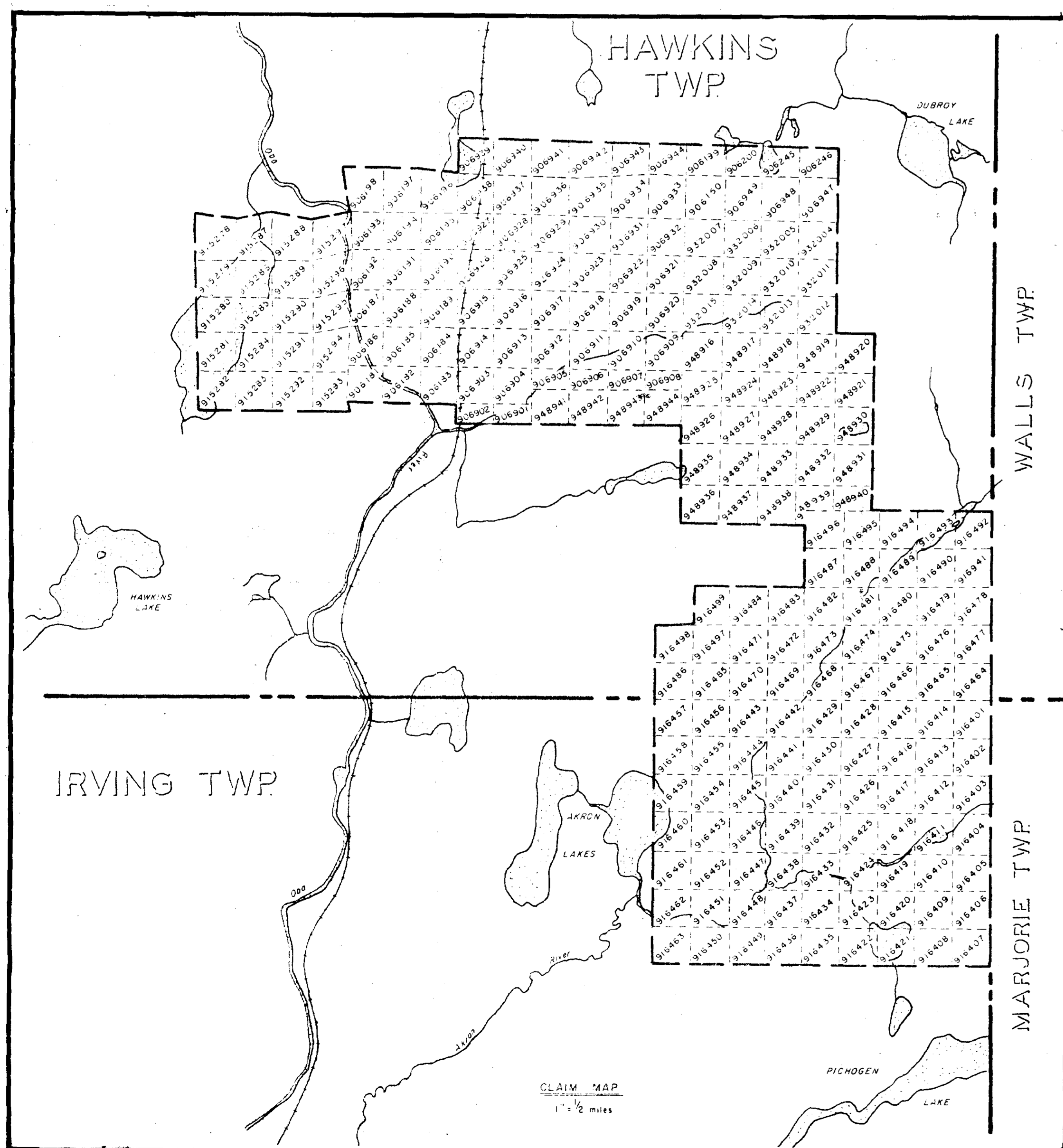
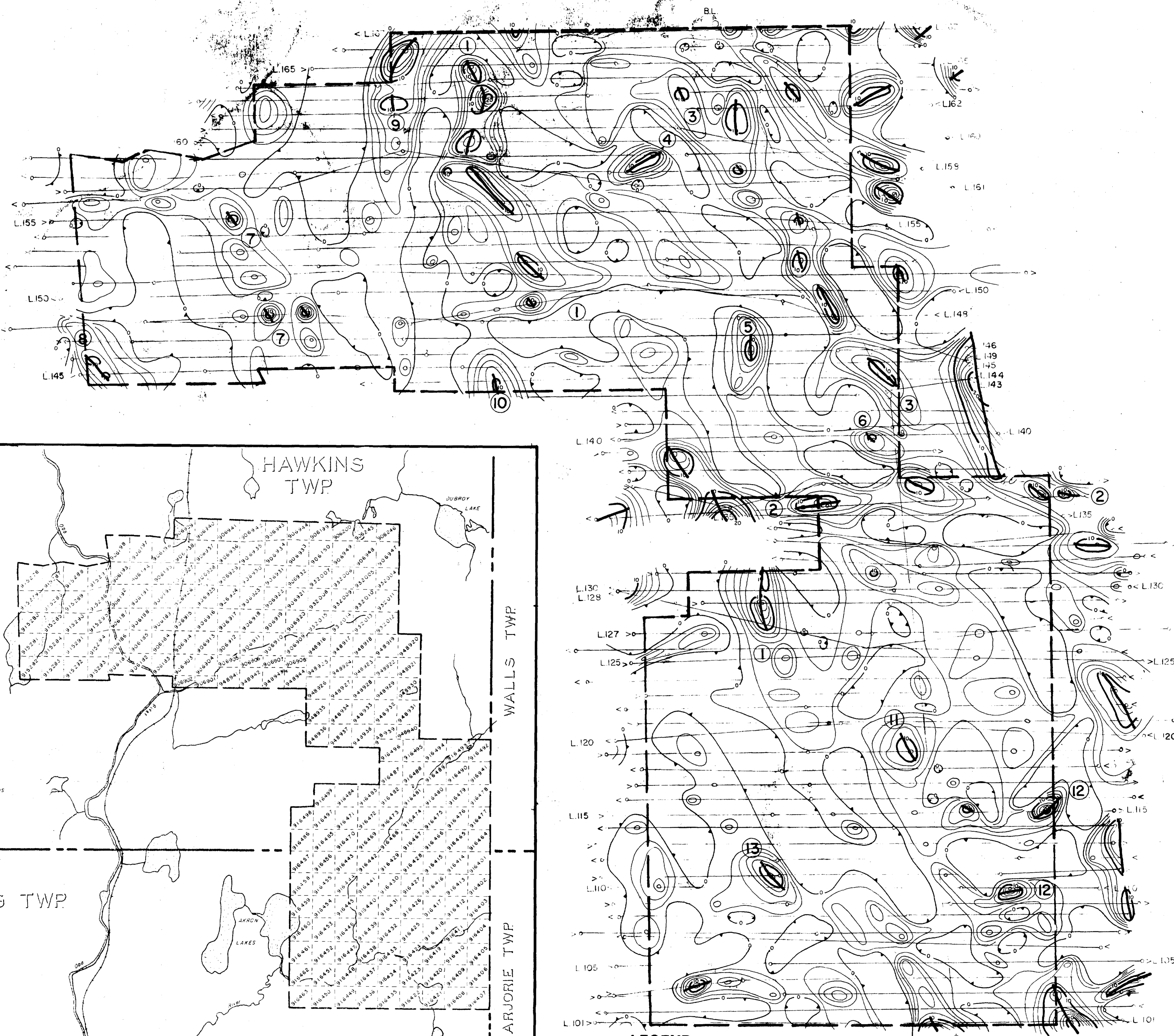
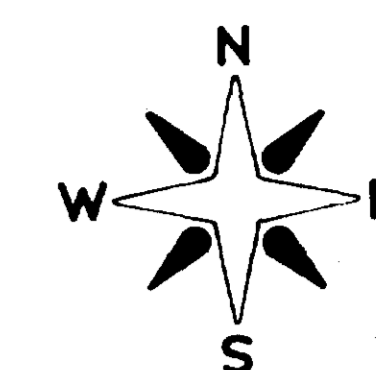


LEGEND

- TOTAL FIELD CONTOUR INTERVAL 25 GAMMAS
- FIDUCIAL POINT
- > LINE DIRECTION
- BASE VALUE 59000 GAMMAS
- ⊖ MAGNETIC LOW
- 25 GAMMAS
- 100 GAMMAS
- 1000 GAMMAS

TYPE OF WORK		AIRBORNE MAGNETIC SURVEY	
CLIENT			
RIVER OAKS GOLD RESOURCES LTD.			
PROJECT		AREA	
NORTH BLOCK		HAWKINS TWP., ONT.	
 <i>Sorden M. Ferderber</i> H. Ferderber Geophysics Ltd.	SCALE	DATE	
	1" = 1/4 mile	JULY 1987	
DRAWN BY	MAP OR SHEET NO.		
D.G.	MG-2		



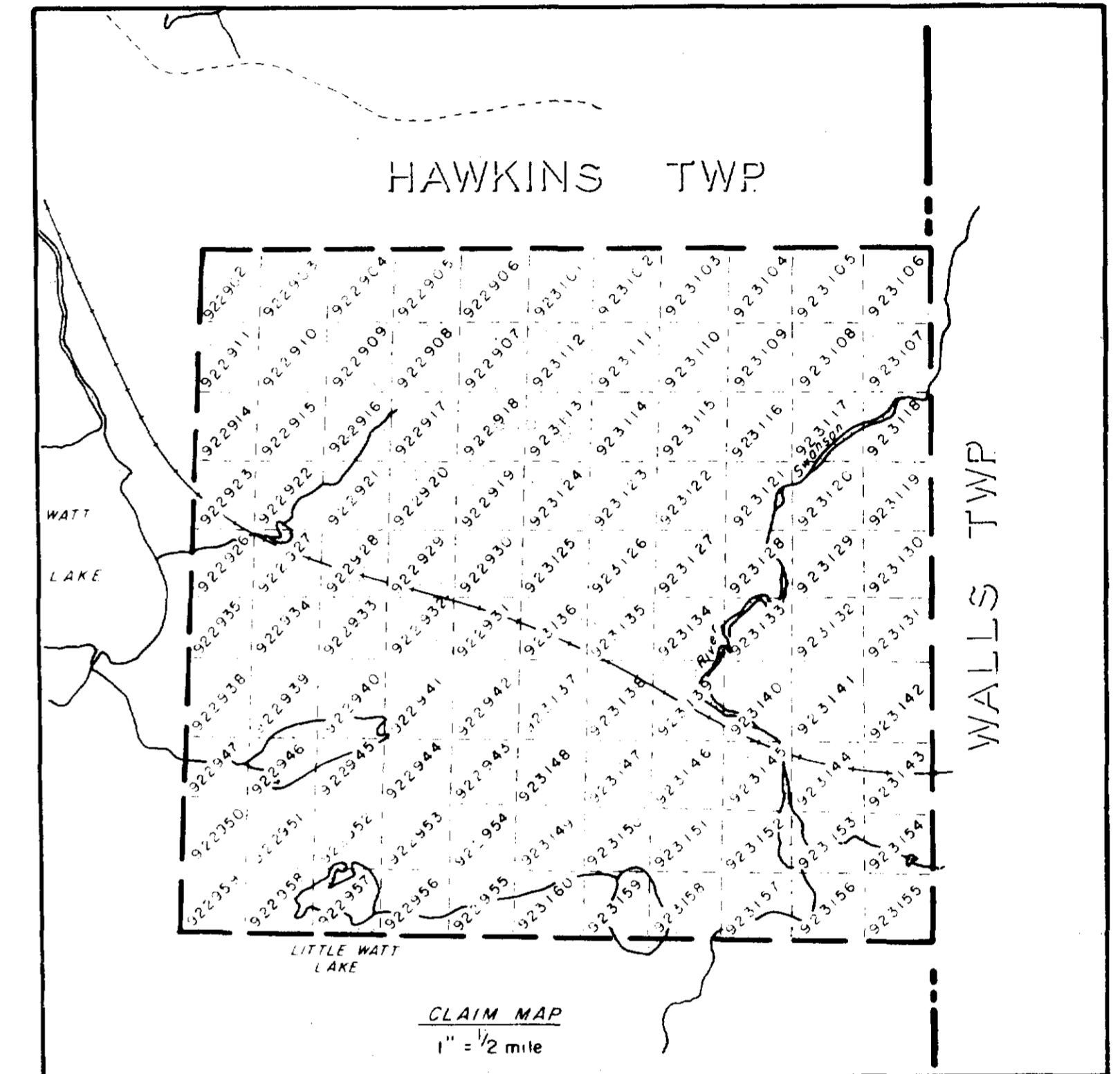
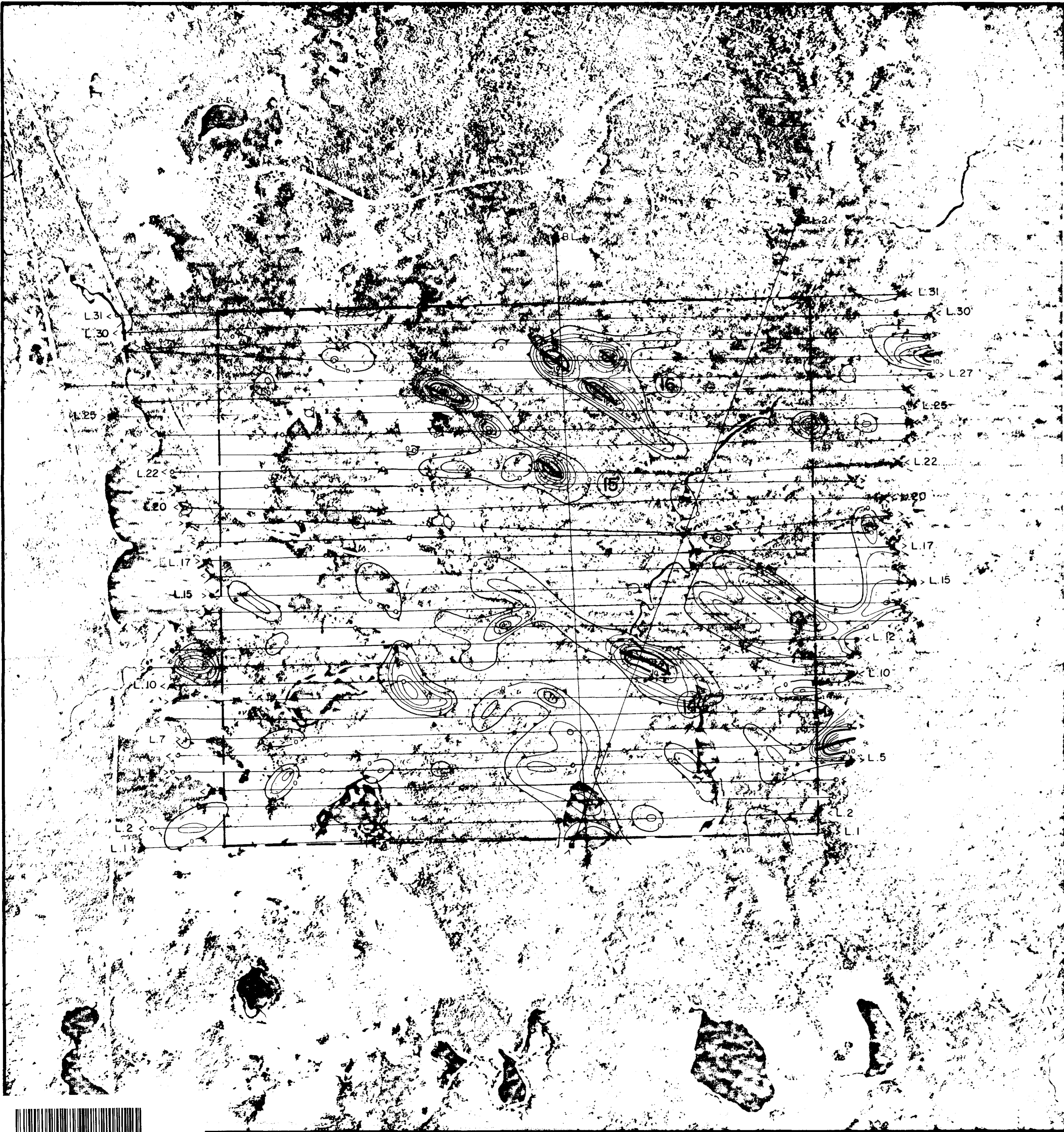
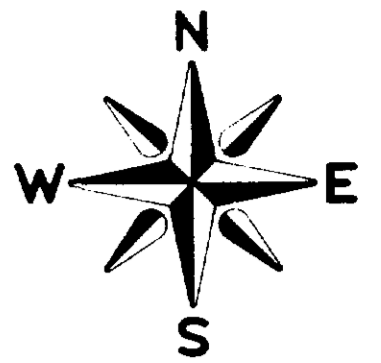


LEGEND

- TOTAL FIELD CONTOUR INTERVAL 2 %
- CONDUCTOR AXIS
- FIDUCIAL POINT
- LINE DIRECTION
- STATION USED: ANNAPOLIS, MARYLAND, U.S.A. (N.S.S. 21.4 KHz)
- LESS THAN ZERO
- 10%, 20%
- 2%
- 0%

TYPE OF WORK		V.L.F.-EM AIRBORNE SURVEY	
CLIENT			
RIVER OAKS GOLD RESOURCES LTD.			
PROJECT	SOUTH BLOCK	AREA	HAWKINS, IRVING TWPS. ONT.
DRAWN BY		SCALE	DATE
H. Ferderber Geophysics Ltd.		1" = 1/4 mile	JULY 1987
MAP OR SHEET NO.		E.M-1	





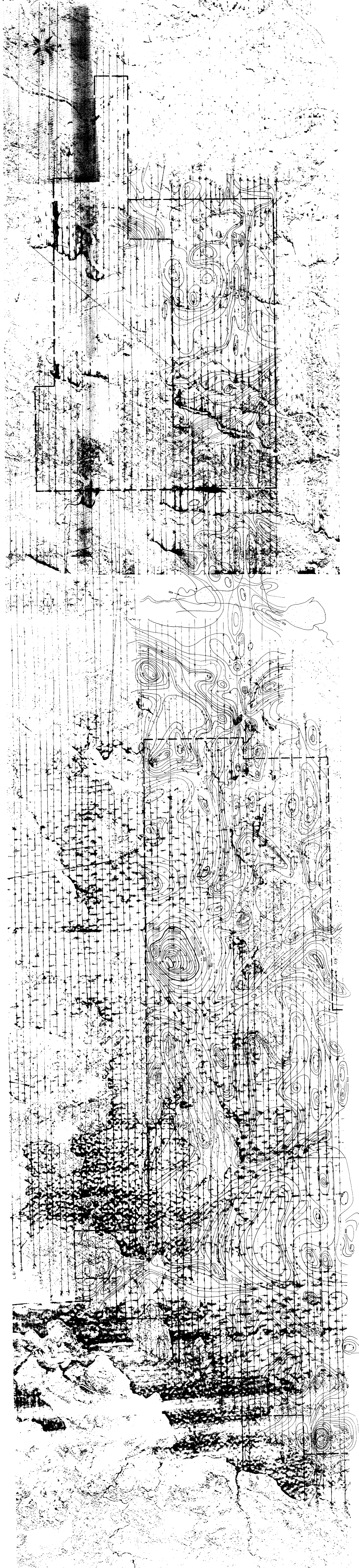
LEGEND

- TOTAL FIELD CONTOUR INTERVAL 2 %
- CONDUCTOR AXIS
- FIDUCIAL POINT
- > LINE DIRECTION
- STATION USED: ANNAPOLIS, MARYLAND, U.S.A. (N.S.S. 21.4 KHz)
- ⊖ LESS THAN ZERO
- ⊖ 10%, 20 %
- ⊖ 2 %
- ⊖ 0 %

210254

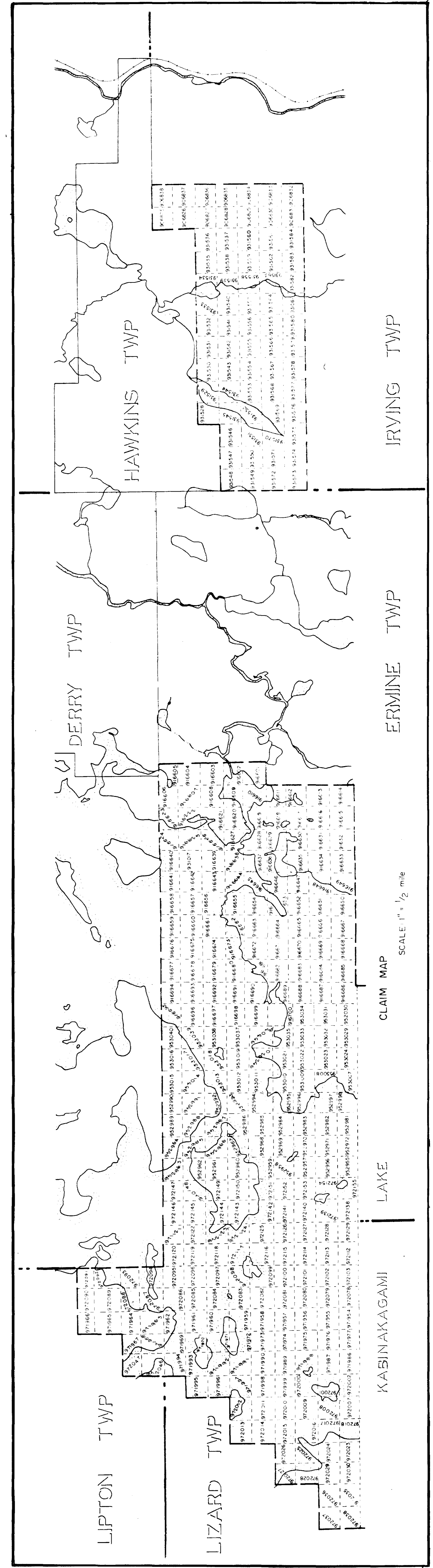
TYPE OF WORK		V.L.F.-EM AIRBORNE SURVEY	
CLIENT		RIVER OAKS GOLD RESOURCES LTD.	
PROJECT	NORTH BLOCK	AREA	HAWKINS TWP., ONT.
DRAWN BY	H. Ferderber Geophysics Ltd.	SCALE	1" = 1/4 mile
		DATE	JULY 1987
		MAP OR SHEET NO.	EM-2





LEGEND

- TOTAL FIELD CONTOUR INTERVAL 25 GAMMAS
- FOCAL POINT
- LINE DIRECTION
- BASE VALUE 59000 GAMMAS
- MAGNETIC LOW
- 1000 GAMMAS
- 100 GAMMAS
- 25 GAMMAS



AIRBORNE MAGNETIC SURVEY

RIVER OAKS GOLD RESOURCES LTD.

AREA: LIZARD, LIPTON, ERMINE, IRVING TOWNSHIPS CNT.

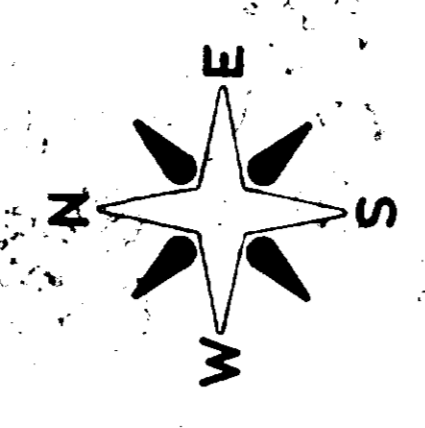
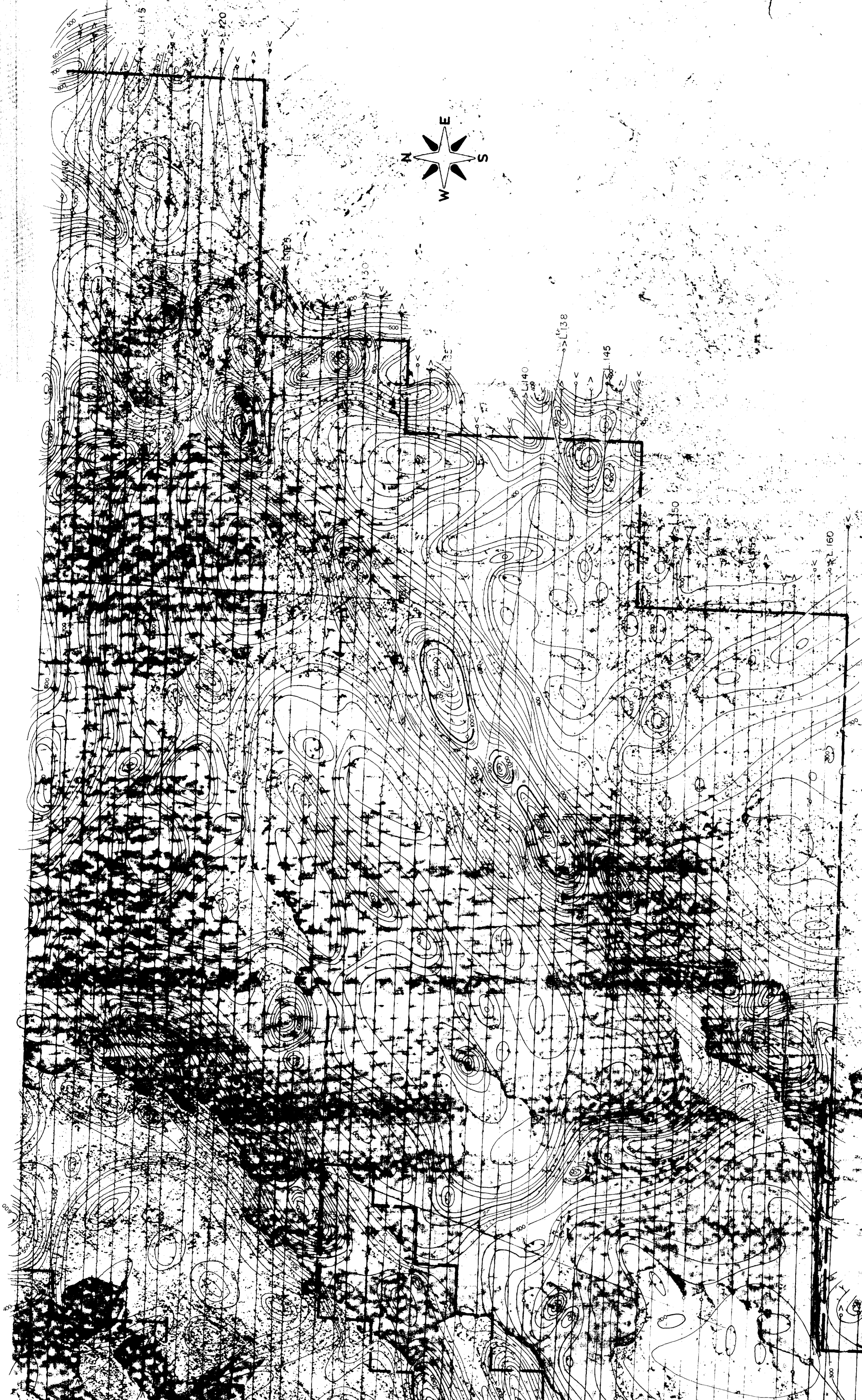
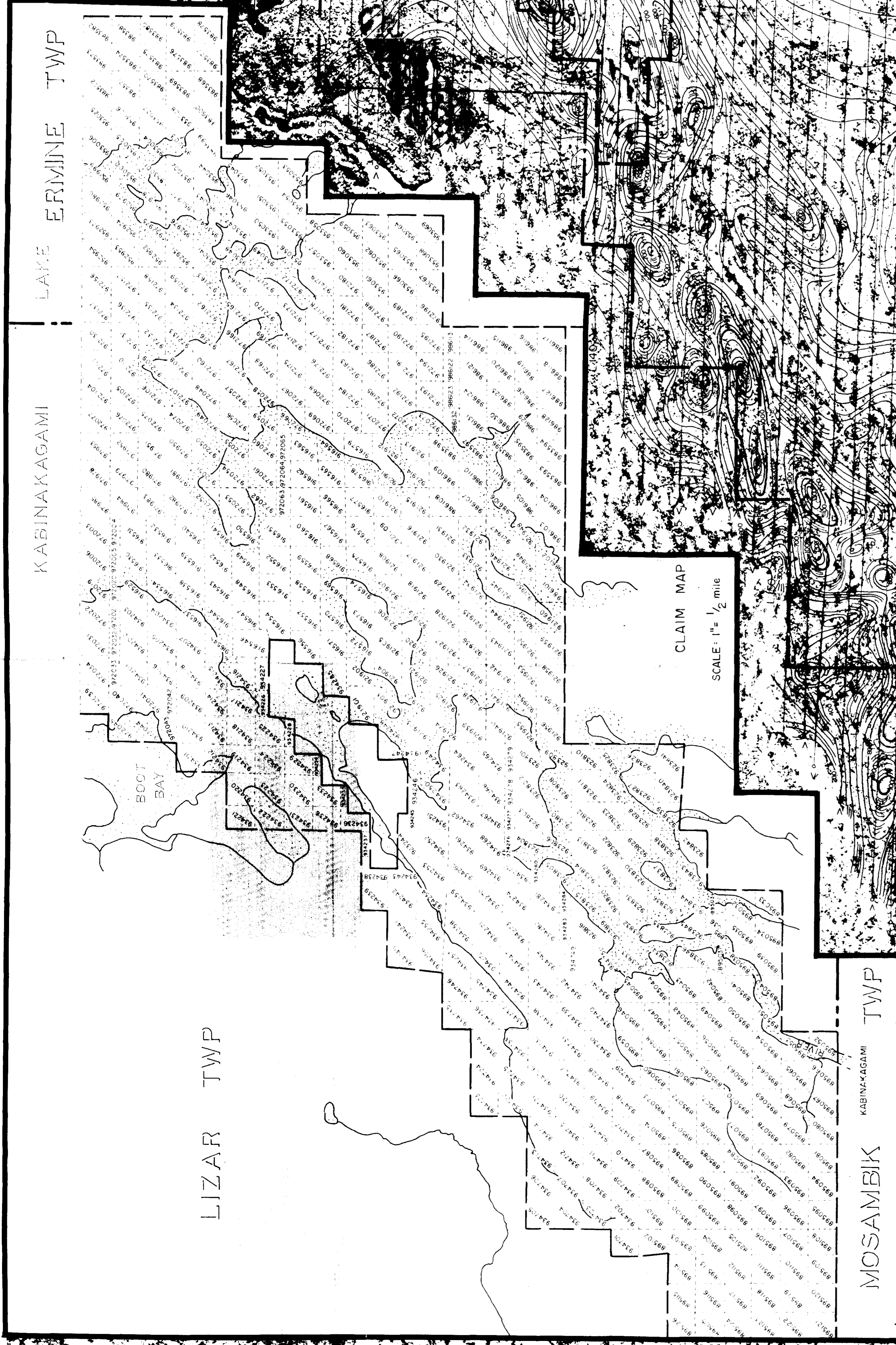
DATE: JULY 1987

SCALE: 1" = 1/2 mile

PROJECT: H. Ferndorfer Geophysics Ltd.

TYPE OF WORK: MAGNETIC

NS-1



LEGEND

- TOTAL FIELD CONTOUR INTERVAL 25 GAMMAS
- FIDUCIAL POINT
- LINE DIRECTION
- BASE VALUE 59000 GAMMAS
- MAGNETIC LOW
- 25 GAMMAS
- 100 GAMMAS
- 1000 GAMMAS

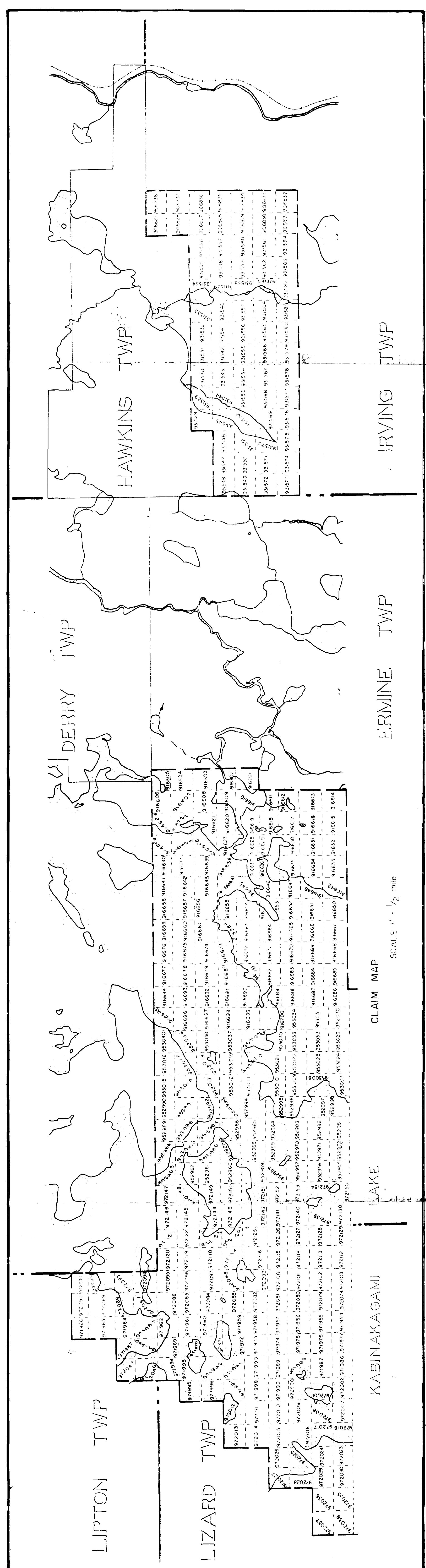
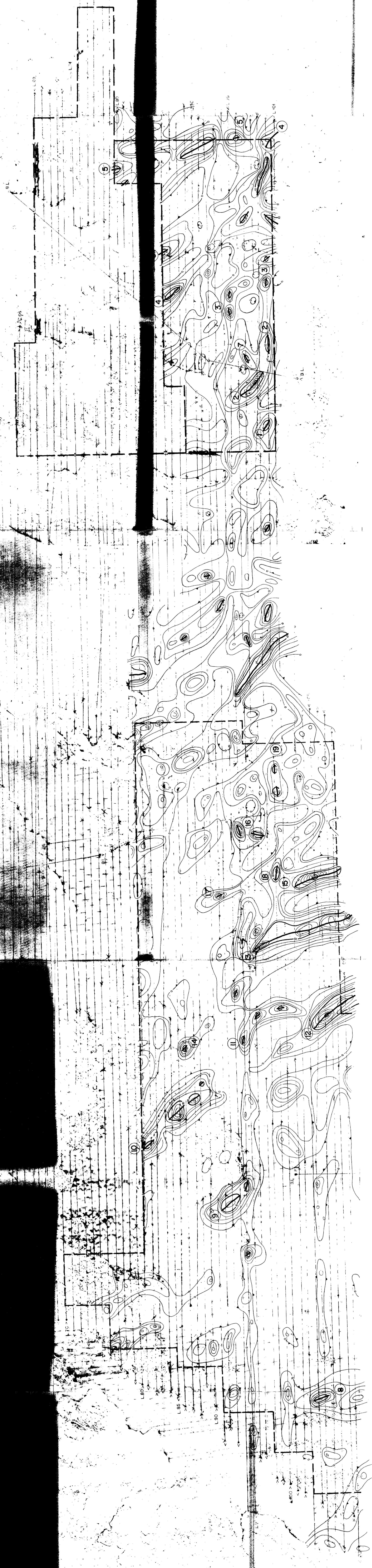
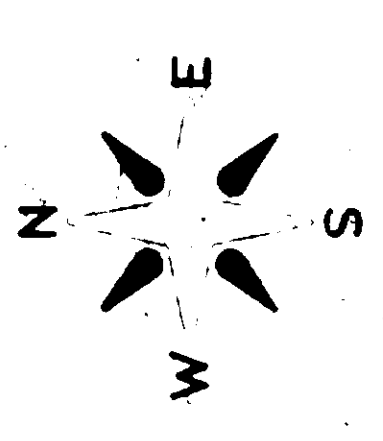
10254

AIRBORNE MAGNETIC SURVEY

RIVER OAKS GOLD RESOURCES LTD.

PROJECT	LIBERTY, ERMINE TOWNSHIP, ONT.
SCALE	1" = 1/2 mile
DATE	JULY 1987
DRAWN BY	J.M.
MAP SHEET NO.	M.G. 2

H. Forsterer Geophysics Ltd.



LEGEND

TOTAL FIELD CONTOUR INTERVAL 2 %

CONDUCTOR AXIS

FIDUCIAL POINT

LINE DIRECTION

STATION USED: ANNAPOLIS MARYLAND, 194 (NASS 24444)

LESS THAN ZERO

VL P. EM. APPROXIMATE SURVEY

ROVER OAKS GOLD RESOURCES LTD.

LIZARD TWP

ERMINE TWP

IRVING TWP