REPORT ON THE

AIRBORNE GEOPHYSICAL SURVEY

ON THE

PROPERTIES OF A. W. HENNESSEY

MARRIOTT TOWNSHIP, ONT.

BY

H. FERDERBER GEOPHYSICS

October 10, 1986
Val d'Or, Quebec

R. A. CAMPBELL

REPORT ON THE

AIRBORNE GEOPHYSICAL SURVEY

ON THE

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MARRIOTT TOWNSHIP, ONT.

INTRODUCTION

On July 27, 1986, an airborne geophysical survey was carried out on the properties of A. W. Hennessey in Marriott Township, 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 Val d'Or, Quebec. A total of 47.0 line miles of data was collected.

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

PROPERTY DESCRIPTION, LOCATION AND ACCESS

The A.W. Hennessey properties in Marriott Township, Ontario are comprised of 2 claim groups, A_1, and A_2 of 22 claims totalling 352 hectares. The west group, A_1, consists of 10 claims and the eastern group, A_2, consists of 12 claims. The claims are recorded with the Mining Recorder of Kirkland Lake and are listed in appendix 1.

The properties are located 48 to 53 km northeast of the town of Kirkland Lake and 62 to 67 km east of the town of Matheson. General Access is provided by highway 101 which traverses the northern part of the township.

Group A_2 is 1.6 km south of highway 101 and 0.4 km north of McDiarmid Lake. The topography of A_2 is dominated by gentle rolling hills which are part of more dominent ridges located to the southwest. A small stream trending northerly from McDiarmid Lake passes through claim 857967.

The west claim group, A_1, is bordered to the west by Holloway Township. It's northern boundary is approximately 3 km south of the highway. Steep abrupt east northeast trending hills dominate the topography. A large elliptical shaped swamp is found near the centre of group A_1. Outcrop exposure is good along the ridges with approximately 70% of the surface area being forested.

Supplies, services and an experienced labour force are available within the Kirkland Lake - Matheson Rouyn area.

GEOLOGY

The two claim groups are located in the central portion of the Abitibi Volcanic Belt of the Superior Province of the Canadian Shield. The Abitibi Volcanic Belt extends for nearly 350 miles in an east-west direction from Timmins to Chibougamau. It is host to a variety of precious and base metal deposits including the Timmins, Kirkland Lake, Noranda, Val d'Or and Chibougamau mining camps.

The Abitibi Volcanic Belt is comprised of a complex assemblage of interbedded volcanic and sedimentary rocks intruded by a variety of intrusives from ultra basic to granitic in composition. The rocks are Archean in age and have been metamorphosed to a greenschist facies. Numerous late Precambrian diabse dykes cut formations of the belt. The rocks generally strike east-west, have a near vertical dip and are highly folded and faulted.

The main rocks underlying Marriott Township are basaltic and andesitc rocks of the tholeiitic suite. The oldest rocks in the township are comprised of tholeiitic lavas of the Kinojevis Group, a 10 km thick Volcanic sequence located south of the Destor-Porcupine Fault. Overlying this group are the Al enriched Blake Group of calc-alkaline basalts, andesites dacites, rhyolites and Mg enriched tholeiites. The prodiment structural feature in the area is the Destor-Porcupine Fault, a major fault striking E-W across the northern limit of the township, north of highway 101. Unrelated series of northeast striking faults have been delineated in the township.

The Ontario Geological Survey map 2390 shows that the two properties are underlain by thin bands of volcanic rocks of the tholeiitic suite. The rocks are comprised of magnesium rich basalts, iron rich basalts, fine grained flows, pillowed flows, pillow and flow breccia, gabbroic and diabasic textured flows and tuffs. Two northeasterly trending faults are located on A_1 and one on A_2.

Mineral exploration in the area dates back to the initial gold discoveries made in Kirkland Lake in 1906. More recent developments in the Harker-Holloway area (Holloway Township is located due west of Marriott Township) have led to the gold discoveries by American Barrick Resources Corporation and Canamax Resources Inc. on properties located approximately 6km west of group A_1. As of December 1985 American Barrick Resources reports reserves of 2,800,000 tons of 0.197 oz/ton Au and Canamax reports reserves in the Mattawasaga and East Zones of 578,00 tons of 0.246 oz/ton gold.

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 G. Mullan, also from Val d'Or. Geophysical sensors were mounted in modified wing tips. GEM-CSM-9 BA Overhauser Proton Precession Magnetometer and Herz Totem 2AG VLF-Electromagnetic system were used. The Magnetometer has resolution of 0.5 gammas and a sampling rate of 0.5 seconds. The magnetic data was recorded on analoque

tape. The VLF-EM measures the change in total field and vertical quadrature field on two channels simultaneously. The data is then transferred to a printer. The transmitting station at Culter, Maine (NAA), frequency 24.0 kilo hertz 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. A north-south line direction at spacing of 440 feet was 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 1:15840 (one inch to 1320 feet). The outline of the claim groups and claim maps are shown on each sheet.

The aeromagnetic data was corrected for diurnal variation by using a base line as reference. The data was then reduced to a base level of 58,000 gammas, contoured at 25 and 50 gamma intervals and presented on map MG-1.

The VLF-EM was transferred from the Totem 2AG memory to printed from. A base value was determined and the change in the total field strenght as a percentage of the base value was calculated. The values were plotted on map EM-1 and the positive values were contured at intervals of 5%. The conductor axes were determined and labelled 1, 2, 3, etc. No priority was attached to the lettering system.

DISCUSSION OF RESULTS

Magnetic Survey Group A_1

The magnetic survey outlined 3 linear magnetic zones (two highs and one low trending 60° to 70°) across group A_1. The magnetic low is located in the centre of the property between the two highs. The low is located over a fault zone delineated on O.G.S. map 2390 and probably represents a zone of altered mafic volcanic rocks associated with the fault. Alternatively, this zone could possibly be a felsic intrusive body.

The magnetic contours are slightly folded suggesting that cross-cutting shear zones may be present on the property.

VLF-EM Survey Group A_1

Four VLF-EM anomalous zones were outlined by the survey. Conductive zones 2,3, and 4 strike roughly parallel to the underlying geology and magnetic anomalies. Zone 1 striking 300° to 310° cuts across conductor 2, through the lower half of the property. It is made up on 2 conductors separated by 1320 feet of non-conductive material.

Zone 2 is comprised of 2 one half mile long conductors striking 50° across the bottom of the property. The western limb is located near a probable fault and a small magnetic low.

Zone 3 strikes 70° across the central part of the claim group. It is situated close to the zone of magnetic lows and near a fault outlined on O.G.S. map 2390. The centre of this anomaly is located over a swamp and probably caused by an underlying linear overburden trend reflecting a fault-shear-fracture zone.

Zone 4 is located near the shore of a small lake, north of the property boundary. It is probably caused by conductive overburden.

Magnetic Survey A_2

The magnetic survey outlined a series of magnetic highs striking approximately 70° representing small changes in the magnetite content of the underlying volcanic rocks. A zone of magnetic lows is located approximately 1 mile north of the property near a fault outlined on map 2390. The contour shapes are distorted in the central part of the property suggesting the possbility of a north-south fracture-shear zone.

VLF-EM Survey A_2

Numerous conductors were delineated by the aiborne VLF-EM survey. It appears that two sets of conductive axes exist on the property, possibly representing a set of joints.

Zones 1,2,3,4 and 5 strike approximately 40° - 50° , trending roughly parallel to the underlying geology. Zone 1 is comprised of 6 conductors trending across the central part of the property. The western end is located near a zone of magnetic highs and a small creek.

Zone 2 is located one quarter of a mile south of the western conductor of Zone 1 while Zone 3 is situated the same distance north of the eastern end of Zone 1.

Conductive zones 4 and 5 are comprised of 4 conductors each, joining at their northeast ends.

Anomalies 6,7 and 8 trend approximately 300°, cutting across the strike of the known geology on the property.

Conductor 6 is a short anomaly located in the southeast corner of the property. Zone 7 trends northwest across the property and is comprised of 4 conductors for a total strike lenght of over 1.5 miles. It appears to be cut off and slightly displaced by conductors 1,3, and 5. Conductor 8 is located north of the property and its lateral extent seems to be controlled by conductors 3 and 4.

Various small isolated conductors were also located in the surveyed area.

CONCLUSIONS AND RECOMMENDATIONS

Group A_1

The most interesting geophysical signature on property A_1 is in the area of conductor 3 and the magneitc low. This is of particular interest since a fault has been mapped by the O.G.S. in this location. The magnetic low suggests that this area could represent alteration zone of a felsic intrusive body located between parallel units of mafic volcanics. Both of these are known to contain gold

mineralization in the surrounding areas. This magnetic low is probably an alteration zone containing possible sulphide mineralization since it coincides with conductor 3 and the fault.

Conductor 1, a possible shear zone or fault striking northwest is cut-off by the western end of this fault-alteration zone. A good gold exploration target is where these two zones intersect.

A further program of exploration is recommended. Work should be concentrated in the central area of the property over the magnetic low and conductor 3. Horizontal loop-Em, gradient magnetic and geological surveys should be performed. The EM survey will better outline the conductive zone while the gradient magnetic and survey will define any geological contacts associated with this alteration zone. The geological survey should concentrate on areas of alteration and shearing and samples should be collected and assayed for gold. A few northeast lines of geophysics should be run in an attempt to delineate conductor 1, with emphasis placed on the intersection of conductors 3 and 1.

Group A_2

The magnetic survey indicates that claim group A_2 is inderlain by 3 or more units of the tholeiitic suite of volcanic rocks. Two sets of possible fractures/shear zones representing a joint system exist on the property.

These possible joints warrant further ground investigation. Horizontal loop-EM or EM-16 surveys should be run at northeast-southwest and northwest-southeast directions to better define the location and extent of the airborne conductors. A geological survey should be undertaken in an attempt to delineate mineralized shear zones alteration zones in outcrop.

Respectfully submitted,

H. Ferderber Geophysics Ltd.

R. A. Campbell B. Sc.

Val d'Or, Que.
October 1986

APPENDIX 1

Claim List

Group A_1

L 849399
L 849400
L 849401
L 849402
L 849403
L 851940
L 851941
L 851942
L 851943
L 851944

Group A_2

L 857956
L 857957
L 857958
L 857959
L 857960
L 857961
L 857962
L 857963
L 857964
L 857965
L 857966
L 857967

Ontario — Geochemical and Expenditure — The Mi

WAC 08447

32D12SE0097 2.9554 MARRIOTT

900

Type of Survey(s)

Airborne VLF-EM + Magnetic

Claim Holder(s)

A.W. Hennessy

K-20362

Address

10 Karen Crescent, Hamilton, Ontario

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
H. Ferderber Geophysics Ltd.	27 07 86 (Day / Mo. / Yr.) — 27 07 86 (Day / Mo. / Yr.)	15

Name and Address of Author (of Geo-Technical report)

R. A. Campbell, 169 Perreault Avenue, Val d'Or, Quebec

Credits Requested per Each Claim in Columns at right

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Man Days		Days per Claim
Complete reverse side and enter total(s) here	Geophysical - Electromagnetic	
	Geophysical - Magnetometer	
	Geophysical - Radiometric	
	Geophysical - Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	40
	Magnetometer	40
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	849399	
	849400	
	849401	
	849402	
	849403	
	851940	
	851941	
	851942	
	851943	
	851944	

Mining Claim Prefix	Mining Claim Number	Expend. Days

GARDEN LAKE MINES DIVISION — RECEIVED — OCT 27 1986

See attached Work Statement.

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.

Total number of mining claims covered by this report of work: 1

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
800	OCT 27 1986	
	Date Approved as Recorded	Branch Director

Date	Recorded Holder or Agent (Signature)
Oct. 17, 1986	R.A. Campbell

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 w... or witnessed same during,and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

R. A. Campbell, 169 Perreault Ave, Val d'Or, Quebec

Date Certified	Certified by (Signature)
Oct 17, 1986	R.A. Campbell

1362 (81/9)

Ontario atural hesources

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

334/86

The Mining Act 29554

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

Type of Survey	Township or Area
Airborne VLF-EM + magnetic	Marriott

Claim Holder(s)	Prospector's Licence No.
A.W. Hennessy	K-20362

Address: 10 Karen Crescent, Hamilton, Ontario

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
H. Ferderber Geophysics Ltd.	27 07 86 (Day / Mo. / Yr.) 27 07 86 (Day / Mo. / Yr.)	32

Name and Address of Author (of Geo-Technical report)
R. A. Campbell, 169 Perreault Ave. Val d'Or, Quebec

Credits Requested per Each Claim in Columns at right

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

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	857956	
	857957	
	857958	
	857959	
	857960	
	857961	
	857962	
	857963	
	857964	
	857965	
	857966	
	857967	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

LA R AM 718

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.

Total number of mining claims covered by this report of work: 12

Date	Recorded Holder or Agent (Signature)
Aug 22, 1986	R.A. Campbell

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
960	AUG 25 1986	
	Date Approved as Recorded	Branch Director

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
R.A. Campbell 169 Perreault Ave., Val d'Or, Quebec J9P 2H1

Date Certified	Certified by (Signature)
Aug 22, 1986	R.A. Campbell

1362 (81/9)

Ministry of Northern Development and Mines

Ontario

Technical Assessment Work Credits

File: 2.9554

Date: February 4,1987

Mining Recorder's Report of Work No.: 334/86,447/86

Recorded Holder: A.W. HENNESSY

Township or Area: MARRIOTT TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 30 days	L 857956 to 67 inclusive 849399 to 403 inclusive 851940 to 44 inclusive
Magnetometer 30 days	
Radiometric ____ days	
Induced polarization ____ days	
Other ____ days	
Section 77 (19) See "Mining Claims Assessed" column	
Geological ____ days	
Geochemical ____ days	
Man days ☐ Airborne ☒	
Special provision ☐ Ground ☐	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.

828 (85/12)

Ministry of Northern Development and Mines

Ontario

Geotechnical Report Approval

File 2.9554

Jan 6/86

Mining Lands Comments Kregan Barlow:

Do you consider the plan to be adequate?

Dennis Kirwin

☐ To: Geophysics

Comments

- Plans are very poor quality
Flight lines appear to have been drawn with a ruler, rather than recovered during the post flight period of compilation.
- At least we should ask for better quality plans

☐ Approved ☐ Wish to see again with corrections | Date Jan 8/87 | Signature

☐ To: Geology - Expenditures

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Geochemistry

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Mining Lands Section, Room 6610, Whitney Block. (Tel: 5-4888)

1593 (85/12)

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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

Type of Survey(s) Airborne VLF-EM and Magnetometer

Township or Area ~~Marriott~~

Claim Holder(s) A.W. Hennessey

Survey Company H. Ferderber Geophysics Ltd.

Author of Report R. A. Campbell

Address of Author 169 Perreault Avenue, Val d'Or, Que.

Covering Dates of Survey July 27, 1986 (linecutting to office)

Total Miles of Line flow 15.0

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	
–Magnetometer	
–Radiometric	
–Other	
Geological	
Geochemical	

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

Magnetometer 40 Electromagnetic 40 Radiometric _____ (enter days per claim)

DATE: ~~Dec. 1, 1986~~ SIGNATURE: R.A. Campbell
Author of Report or Agent

Res. Geol. _____ Qualifications 2.6609

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	849399
	849400
	849401
	849402
	849403
	851940
	851941
	851942
	851943
	851944

If space insufficient, attach list

TOTAL CLAIMS 10

837 (5,79)

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 2AG 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 15.0 Over claims only 9.5

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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

Type of Survey(s) Airborne VLF-EM and Magnetometer

Township or Area Marriott

Claim Holder(s) A. W. Hennessey

Survey Company H. Ferderber Geophysics Ltd.

Author of Report R. A. Campbell

Address of Author 169 Perreault Ave, Val d'Or, Que.

Covering Dates of Survey July 27, 1986 (linecutting to office)

Total Miles of Line flown32.0

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

DAYS per claim

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

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

Magnetometer 40 Electromagnetic 40 Radiometric _____ (enter days per claim)

DATE: Dec 1, 1986 SIGNATURE: R A Campbell
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix)	(number)
L	857956
	857957
	857958
	857959
	857960
	857961
	857962
	857963
	857964
	857965
	857966
	857967

If space insufficient, attach list

TOTAL CLAIMS 12

837 (5.79)

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 2AG 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 32.0 Over claims only 12.3

February 20, 1987

Your File Nos.334/86,447/86
Our File: 2.9554

Mining Recorder
Ministry of Northern Development and Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

RE: Notice of Intent dated February 4, 1987
Geophysical (Electromagnetic & Magnetometer)
Surveys on Mining Claims L 857956, et al,
in Marriott Township

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

J.C. Smith, A/Manager
Mining Lands Section
Mineral Development and Lands Branch
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc
cc: Mr. A.W. Hennessy
10 Karen Crescent
Hamilton, Ontario
L9C 5M6

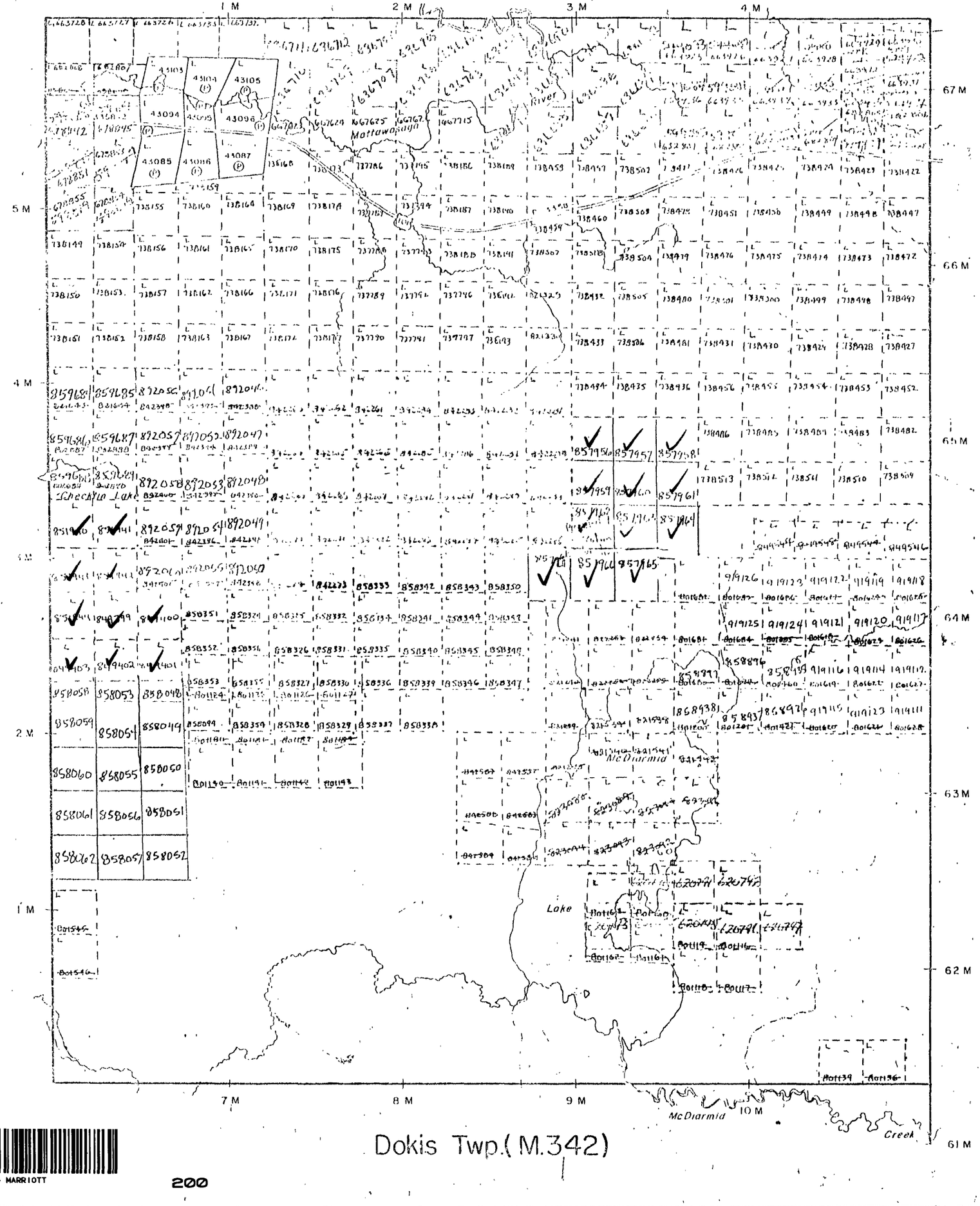
R.A. Campbell
169 Perreault Avenue
Val d'Or, Quebec
J9P 2H1

Resident Geologist
Kirkland Lake, Ontario

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Encl.

Stoughton Twp.(M.389)



Dokis Twp.(M.342)

OF

MARRIOTT

DISTRICT OF
COCHRANE

OCT 28 1986

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
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 MUSKEG	
MINES	
CANCELLED	

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers.

PLAN NO. M.363

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

LEGEND

CONTOUR INTERVAL 25 GAMMAS

25 GAMMA

100 GAMMA

MAGNETIC LOW

BASE VALUE 58000 GAMMAS

LEGEND

CONTOUR INTERVAL 25 GAMMAS

50 GAMMA

100 GAMMA

MAGNETIC LOW

BASE VALUE

O Fiducial point

> Line direction

AREA A-1

AREA A-2

BL A-1

BL

L 10

L 5

L 1

L 15

MARRIOTT TWP

HOLLOWAY TWP.

Whechim Lake

McDiarmid Lake

CLAIM MAP

1" = ½ mile

29554

TYPE OF WORK

AIRBORNE MAGNETIC SURVEY

CLIENT

HENNESSEY PROPERTY

PROJEC

MARRIOTT

AREA

MARRIOTT

H. Ferderber Geophysics Ltd

SCALE 1" = ¼ mile

DATE AUG 1986

DRAWN BY

MG-1

AREA A-1

AREA A-2

B.L. A-1

B.L.

B.L. A-2

L.10

L.5

L.1

L.5

Total Field contour interval 5%
conductor axis
fiducial point
line direction

MARRIOTT TWP.

HOLLOWAY TWP.

Checkin Lake

McDiarmid Lake

CLAIM MAP
(1½ mile)

TYPE OF WORK
AIRBORNE V.L.F.-EM SURVEY
(STATION NAA)

CLIENT
HENNESSEY PROPERTY

PROJECT
MARRIOTT

TWP.
MARRIOTT TWP., ONT.

SCALE
1" = ¼ mile

DATE
AUG.

DRAWN BY
D.G.

MAP OR SHEET NO.

RA Lamberton
H. Ferderber Geophysics Ltd.

2.9554

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