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GEOPHYSICAL REPORT

on the

Blakelock Township Property

for

DEERFOOT RESOURCES INC.

by

R. J. Meikle

Robert S. Middleton Exploration Services Inc. 1637 Timmins, Ontario P.O. Box 1637 P4N 7W8

June 25, 1986

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Figure 4 Regional Geology Map

MAPS IN BACK POCKET

Max Min 1777 Hz	1:5,000
Max Min 444 Hz	1:5,000
Proton Magnetometer Survey	1:5,000

INTRODUCTION

A program of Linecutting, Magnetometer Survey, and Horizontal Loop Electromagnetic survey was carried out on the Blakelock Township property for Deerfoot Resources Inc. The work was done by R. S. Middleton Exploration Services Inc., between May 1 to 8, 1986.

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The purpose of the survey was to delineate known conductive and magnetic horizons which were suspected of underlying the claim group.

This report decribes the surveys and the results. Final interpretation of the results will be done when the geological and Induced Polarization surveys are completed.

Location, Access and Facilities

The property is located in southern Blakelock township, 48 air miles northeast of Cochrane, Ontario (see Figures 1, 2). Access to the property is via fixed wing float plane from Cochrane. In addition, the new Detour Mine road passes within 5 miles to the northwest of the property.

Claim Status

The property consists of 25 unpatented mining claims as shown in Figure 3. The numbers are as follows:

Claim Number	No.	Recording Date
848384-848398	15	April 19, 1985
755543-755552	<u>10</u>	May 17, 1985

25



 $\bullet \bullet$







Claims 848384-848398 are under extension of time until July 21, 1986 due to an early break-up preventing completion of the surveys.

The claims are presently held by Maurex Resources Ltd. in trust for Deerfoot Resources Inc.

Personnel

The following personnel were involved with the project between May 1 to 8, 1986:

R. J. MeikleTimmins, OntarioSteve AndersonCrystal Falls, OntarioLanny AndersonCrystal Falls, OntarioFern DuquetteCrystal Falls, OntarioFrancois BonhommeToronto, Ontario

Previous Work

The following is taken from Mr. R. S. Middleton's report on the property, May 17, 1985.

The first work done in the area was by the Conwest Company (Toronto File 63.1028) who carried out Exploration electromagnetic surveys in 1960 and drilled 2 short holes near the northern boundary of the property and 2 short holes near the southern boundary of the property (see Figure 7). Several zones disseminated sulphides were of porphyritic rhyolite with indicated but the core was not assayed. The object of the Convest program and subsequent work by others described below was base metals.

In 1976 further limited ground EM surveys and drilling were

carried out by Geophysical Engineering Limited and two holes OC-6 and CC-7 were drilled which intersected stratabound pyrite-chert (iron formation) mineralization hosted in intermediate to felsic tuffs. The host rocks were sericitized. Also in 1976 Hudson Bay Mining and Smelting outlined a series of conductors on the southwest portion of the property area, near the Floodwood River (H.B.M.S. Grid G) but there is no record of drilling on file (Toronto File 2.2395). Noranda Exploration Company Limited did a ground FM and magnetic survey in a small area 1 mile east of the property (Toronto File 2.1658) and one hole was drilled roughly 2000 feet west of the Mikwam River (hole FK 75-2). Gold values of .03 oz Au over 3 feet at a depth of 106 - 109 feet were contained in a disseminated pyrite zone in porphyry in this hole.

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In 1982 - 1985 Newmont Exploration have been carrying out an extensive overburden drilling, geophysical and diamond drill program 10 miles east of the property and have recently announced an important drill intersection of 4 gm/7.5m N. Miner, April 18, 1985. This hole is on the same iron formation trend that extends west through the Blakelock and Tweed Township area (see Figure 6). Extensive staking has taken place west of the Newmont property by Esso Resources, coming within 3 miles of the Deerfoot property.

GEOLOGY

Geology and Mineralization

Geological mapping of the property will be completed in June-July, 1986. At this time a geological report will be written and possibly some explanation of the ground geophysics will be attempted. The following is a description of the regional geology taken from Mr. Robert S. Middleton, P.Eng. qualifying report on the property dated May 17, 1985 (see Figure 4).

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Regional Geology

А series of iron formations hosted in sediments. felsic-mafic volcanics extend from the Casa Berardi area of Quebec into the Burntbush greenstone belt area in Ontario. The geology is illustrated on Ontario Department of Mines Map 2161. These closely related to the gold iron formations are mineralization as shown by the new Casa Berardi discovery by (1984a, b), but upon detailed Inco, see Northern Miner examination gold occurs within several rock types including oxide and sulphide iron formation, argillites, greywackes, conglomerate felsic tuffs. Carbonate and silica alteration - veining with and pyritization is directly associated with the gold values within the various rock types at the Inco discovery. Bedded stratabound zones within the oxide iron formation also contain pyrite important gold values. Recent assays released by Inco give gold



grades and widths in widely spaced holes of .13/6.7 ft., .26/24.9 ft., .73/15.7 ft., .23/81.5 ft., Northern Miner (1984b).

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The aeromagnetic data as shown on Figure 6 can be utilized to trace the iron formation markers, and zones where the magnetic gradient becomes less indicate areas of change from oxide (high magnetic gradient) to sulphide and or carbonate facies. In Noseworthy township a gold showing is reported to occur near the Burntbush River (Cyril Knight showing) which is situated along the same magnetic horizon that links the iron formation markers in Quebec with the area containing the property. Overburden cover and general lack of outcrop in the region has prevented gold prospecting and the principle exploration conventional effort in the past 25 years has been base metal exploration using electromagnetic methods for outlining conductors. Gold analysis was not routinely done during these base metal programs, and as a result the gold potential for the area was not assessed nor was the geological setting appreciated until recent gold discoveries were made elsewhere along the belt.

Property Geology

The geology underlying the property consists of felsic, intermediate and mafic volcanic tuffs and flows which are intruded by local high level porphyry bodies. The south edge of the property is underlain by a sedimentary unit containing a conglomerate horizon that contains traces of gold, Thompson, R.(1936). Drilling done in the late 1960's to early 1970's was directed at a portion of a number of conductors within the bounds of the property with the purpose of base metal exploration. Examination of the drill logs and in some cases the drill core which is on file at the Resident Geologist office at Kirkland shown that a number of stratabound disseminated Lake has (non-conductive) sulphides occur within the volcanic section as well as massive sulphides. These sulphide zones are extensions of iron formation - exhalitive units in the area. This type of setting is similar to that of the Agnico Eagle mine in Quebec, portions of the Inco Casa Berardi discovery and Hemlo in Ontario. Siliceous and sericite alteration occurs in the host rocks (seen by the writer in both old drill core and outcrop) which act as guides tracing out sulphide horizons that may contain to concentrations of precious or base metals. In other words the areas with greatest alteration would likely occur near and adjacent to areas with metal concentrations.

Analysis of disseminated pyrite in a porphyritic unit in Noranda hole HK 75-2 which is situated 2000 feet west of the Mikwam River (claim L 848 389) on the Deerfoot property assayed .03 oz Au/3 feet showing that gold is present and is anomalous in this sulphide and porphyry (possibly porphyritic rhyolite) environment (logs on file at MNR, Kirkland Lake). Therefore further exploration for stratabound sulphide and porphyry gold

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deposits within this area is warrented.

Outcrops on the central part of the property contain intense silicification and brecciation indicating a center of hot spring activity within this section of volcanics. Nearby porphyry bodies may also indicate a volcanic centre area.

SURVEY PROCEDURES

MAX-MIN II

Theory

The Max-Min II is a frequency domain, horizontal loop electromagnetic (HLEM) system, based on measuring the response of conductors to a transmitted, time varying electromagnetic field.

The transmitted, or primary FM field is a sinusoidally varying field at any of five different frequencies. This field induces an electromotive force, (emf), or voltage, in any conductor through which the field passes. This is defined by:

 $\oint E.dl = \frac{-\partial \emptyset}{\partial t}$ (the Faraday Induction Principle)

where E is the electric field strength in volts/metre (and so \oint E.dl is the emf around a closed loop) and \oint is the magnetic flux through the conductor loop. This emf causes a "secondary" current to flow in the conductor in turn generating a secondary electromagnetic field.

This changing secondary field induces an emf in the receiver coil (by the Faraday law) at the same frequency, but which

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differs from the primary field in magnitude and phase. The difference in phase (the phase angle) is a function of the conductance of the conductor(s), both the target and the overburden and host rock. The magnitude of the secondary is also dependant on the conductance, and also on the dimensions, depth, and geometry of the target, as well as on the interference from overburden and the host rock.

These two parameters (phase angle and magnitude) are measured by measuring the strength of the secondary field in two components: the real field or that part "in-phase" with the primary field; and the imaginary field, or that part in "quadrature" or 90° out of phase from the primary field.

The magnitude and phase angle of the response is also a function of the frequency of the primary field. A higher frequency field generates a stronger response to weaker conductors, but a lower frequency tends to pass through weak conductors and penetrate to a greater depth. The lower frequency also tends to energise the full thickness of a conductor, and gives a better measure of its true conductivity-thickness product (conductance).

For these reasons two or more frequencies are usually used; the lower for penetration and accurate measure of good conductors, and the higher frequency for strong response to weak conductors. Distinction between conductive targets, overburden, and host rock responses are made by studying the shape of the secondary field, and the difference in the frequency responses.

The transmitted primary field also creates an emf in the receiver coil, which is much stronger than the secondary, and which must be corrected for by the receiver. This is done by electronically creating an emf in the receiver, whose magnitude is determined by the distance from receiver to transmitter as set on the receiver, and whose phase is derived from the receiver via an interconnecting wire.

Field Method

The Max-Min II survey was carried out in the "maximum coupled" mode (horizontal co-planar) using an Apex Max Min II Instrument. The transmitter and receiver are carried in-line down the survey line separated by a constant distance (in this case 150 m) with the receiver leading. Two transmitter frequencies were used: 444 Hz, and 1777 Hz. The transmitter and receiver are connected by a cable, for phase reference and operator communication.

MAGNETICS

Theory

The magnetic method is based on measuring alteration in the shape and magnitude of the earth's naturally ocurring magnetic field caused by changes in the magnetization of the rocks in the

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earth.

These changes in magnetization are due mainly to the presence of the magnetic minerals, of which the most common is magnetite, and to a lesser extent ilmenite, pyrrhotite, and some less common minerals.

Magnetic anomalies in the earth's field are caused by changes in two types of magnetization: induced and remanent (permanent). Induced magnetization is caused by the magnetic field being altered and enhanced by increases in the magnetic susceptibility of the rocks, which is a function of the concentration of the magnetic minerals.

Remanent magnetism is independent of the earth's magnetic field, and is the permanent magnetization of the magnetic particles (magnetite, etc.) in the rock. This is created when these particles orient themselves parallel to the ambient field when cooling. This magnetization may not be in the same direction as the present earth's field, due to changes in the orientation of the rock or the field.

The most common method of measuring the total magnetic field in ground exploration is with a proton precession magnetometer. This device measures the effect of the magnetic field on the magnetic dipole of hydrogen protons. This dipole is caused by the "spin" of the proton, and in a magnetometer these dipoles in a sample of hydrogen-rich fluid are oriented parallel to a magnetic field applied by an electric coil surrounding the sample. After this magnetic field is removed, the dipoles begin to precess (wobble) around their orientation under the influence of the ambient earth's magnetic field. The frequency of this precession is proportional to the earth's magnetic field intensity.

Field Method

The magnetics data were collected with an FDA OMNI IV proton precession magnetometer, which measures the absolute value of the total magnetic field of the earth to an accuracy of \pm 1 n Tesla. The magnetometer is carried down the survey line by a single operator, with the sensor mounted on a short pole to remove it from the surface geologic noise. Readings are normally taken at 25 m intervals, and at 12.5 m intervals where the operator observes a high gradient (anomaly).

The readings are corrected for changes in the earth's total field (diurnal drift) by repeating readings at base stations and "tie points" several times each day.

RESULTS

The results of the Mag and EM surveys appear to be quite complex. There are two main Max-Min anomalies, and numerous complex magnetic features. They are described as follows:

E.M. Anomaly #1

This anomaly is centered on L20W at 5+00S. It appears to be a short, 150m, conductor with a greater than 70 mho conductivity - thickness value. However, the anomaly shape indicates the possibility of parallel conductors which may be striking obliquely to the line. A second conductor 300 meters to the south strikes NE and could be part of the same feature. However, the main anomaly is much more conductive and has a direct magnetic correlation. The magnetic anomaly exhibits a strong dipole and is characteristic of pyrrhotite and strong iron formation response. or More work is required to better resolve this conductor or to strike and extent.

E.M. Anomaly #2

This anomaly extends westward off the property at about 6-7 south. It starts at L25W-4+75S and where it has weak. quadrature only, response. a The conductivity increases westward, where it is strongest on L23W. Lines 34W and 35W were not read because of a beaver pond which disrupted a continuous profile of conductor also has a coincident readings. This magnetic response with up to 2600 nanoteslas above Anomaly #2 is on strike with and a background.

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possible extension of Anomaly #1.

E.M. Anomaly #3

This is a short, 150 m, conductor centered at 6+50S on L3W and L4W. It is a very weak, ill-defined conductor. The absence of a quadrature response suggest a chaining problem except that the response is obtained on two adjacent lines.

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CONCLUSIONS AND RECOMMENDATIONS

The geophysical surveys outlined three conductors of interest. Anomalies #1 and #2 have direct magnetic correlation while anomaly #3 has no direct magnetic correlation. There does not appear to be any other significant magnetic anomalies.

Anomaly #1 requires further detailed EM and Magnetometer work to resolve both the strike extent, direction, and possibility of parallel anomalies. A vertical loop instrument would best resolve this. A few short east-west pace and compass traverses with a magnetometer would help delineate the magnetic trend.

The entire grid should be geologically mapped and an Induced Polarization survey conducted on at least every second line making sure that the three anomalies are covered.

The following proposed work program would bring the property to the drilling stage:

WORK PROGRAM

Re-Cutting of Winter Lines 48 km @ \$186/km	\$ 8,928.00
Geological Mapping & Rock Analysis 45 km @ \$310/km	13,950.00
Additional E.M. & Magnetometer (detail) 4 days @ \$600/day	2,400.00
Induced Polarization Survey 20 days @ \$1,400/day 3 days mobe & demobe @ \$900/day	28,000.00 2,700.00
Transportation - Fixed Wing from Cochrane	5,000.00
Contingency	4,022.00
TOFAL	\$65,000.00

Respectfully submitted,

J meille

R. J. Meikle

CERTIFICATE

- I, Raymond Meikle of Timmins, Ontario hereby certify that:
- 1) I hold a three year Technologist Diploma from the Haileybury School of Mines, Haileybury, Ontario.
- 2) I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience, and on the results of the field work conducted on the property during May, 1986 which was carried out under my overall supervision.
- 3) I hold no interest, directly or indirectly in this property other than professional fees, nor do I expect to receive any interest in the property or in Deerfoot Resources Inc. or any of it's subsidiary companies.

DATED this 25th day of June, 1986 at Timmins, Ontario.

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R. J. Meikle

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Ministry of Natural Resources GEOPHYSICAL – GEOLOGICAL – GEOCH TECHNICAL DATA STATEMEN TO BE ATTACHED AS AN APPENDIX TO TECHNIC FACTS SHOWN HERE NEED NOT BE REPEATED I TECHNICAL REPORT MUST CONTAIN INTERPRETATION,	File IEMICAL T AL REPORT N REPORT CONCLUSIONS ETC.
Type of Survey(s) Linecotting , Augachemeter , H.E.M. Township or Area Blackelack Twp. Claim Holder(s) Meurex Resources Ltd. in free Deectooat Resources Ltd. in free Survey Company R.S. Middle tog Exploration Securics lac. Author of Report R. J. Meikle Address of Author Lo Bex 1632 Transmodelaction over law 3408 Covering Dates of Survey May 1 - May 8 1986 Covering Dates of Line Cut 45.2 km. Special PROVISIONS DAYS CREDITS REQUESTED Geophysical ENTER 40 days (includes line cutting) for first survey. -Magnetometer 20 Nagnetometer 20 Radiometric -Magnetometer	MINING CLAIMS TRAVERSED List numerically (prefix) (number)
ENTER 20 days for eachOther additional survey using Geological same grid. Geochemical <u>AIRBORNE CREDITS</u> (Special provision credits do not apply to airborne surveys) MagnetometerElectromagnetic Radiometric (enter days per claim)	
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OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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INDUCED POLARIZATION

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GEOCHEMICAL SURVEY		PROCEDURE	RECORD
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Numbers of claims from which samples taken	

Total Number of Samples	ANALYTICAL METHODS
Type of Sample(Nature of Material) Average Sample Weight	Values expressed in:per centIp. p. m.Ip. p. m.Ip. p. b.II
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled	Others
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method
Terrain	Analytical Method
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (tests)
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION	Commercial Laboratory (tests)
(Includes drying, screening, crushing, ashing)	Name of Laboratory
Mesh size of fraction used for analysis	Extraction Method
	Analytical Method
	Reagents Used
	General
General	



aug 5/86

July 18, 1986

Your File: 194/86 Our File: 2.9238

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

Dear Madam:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at (416) 965-4888.

Yours sincerely,

whelte

Ĵ.Ç. Smith, Supervisor Mining Lands Section /

Whitney Block, 6th Fjoor Queen's Park Toronto, Ontario M7A 1W3

SH/mc Encl.

cc: David V. Jones (Deerfoot Resources Inc) 1007 Jeant Street Timmins, Ontario P4N 1A8 G. Hodge P.O. Box 1637 Timmins, Ontario P4N 7W8

Mr. G.H. Ferguson Mining & Lands Comm. Timmins, Ontario R.J. Meikle P.O. Box 1637 Timmins, Ontario P4N 7W8



> Notice of Intent for Technical Reports July 18, 1986 2.9238/194/86

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on the record sheets to agree with the enclosed statement Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted directly to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.



	F ile
	2.9238
Date	Mining Recorder's Report of
July 18, 1986	194/86

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DAVID V. JONES (DEE	RFOOT RESOURCES INC)
BLAKELOCK TOWNSHIP	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic 40 day	s L 848384 848386 to 394 inclusive
Magnetometer day	848396-97 755543 to 547 inclusive
Radiometric day	s 755549 to 551 inclusive
Induced polarization day	18
Other day	'S
Section 77 (19) See "Mining Claims Assessed" column	
Geological day	'S
Geochemical day	'S
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.	
pecial credits under section 77 (16) for the followi	ng mining claims
30 DAYS	20 DAYS
L 848395	L 848385-98
755548	/55552 🛩
o creats have been allowed for the following mini	ng claims
I not sufficiently covered by the survey	



Technical Assessment Work Credits

	File
	2.9238
Date	Mining Recorder's Report of
July 18, 1986	194/86

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BLÅKELOCK TOWNSHIP		· · · · · · · · · · · · · · · · · · ·
Type of survey and number of	Mining Claims Assessed	,
Assessment days credit per claim Geophysical	•	ş
Electromagnetic days		
Magnetometer 20 days	L 848384 to 398 inclusive	
Radiometric days	755545 to 552 inclusive	
Induced polarization days		
Other days		
Section 77 (19) See "Mining Claims Assessed" column		
Geological days		
Geochemical days		
Man days Airborne		
Special provision X Ground X		
Credits have been reduced because of partial coverage of claims.		
Credits have been reduced because of corrections to work dates and figures of applicant.		
ecial credits under section 77 (16) for the following m	ining claims	
o credits have been allowed for the following mining cl	aims	
not sufficiently covered by the survey] insufficient technical data filed	······································

Report of Work #194

July 10, 1986

David V. Jones 1007 Jeant Street Timmins, Ontario P4N 1AB

Dear Sir:

RE: Mining Claims L 848384, et al, in the Township of Blakelock

We have not received the reports and maps (in duplicate) for Geophysical (Electromagnetic & Magnetometer) Surveys on the above-mentioned claims.

As the assessment "Report of Work" was recorded by the Mining Recorder on May 20, 1986 the 60 day period allowed by Section 77 of the Mining Act for the submission of the technical reports and maps to this office will expire on July 19, 1986.

If the material is not submitted to this office by July 19, 1986 we will have no alternative but to instruct the Mining Recorder to delete the work credits from the claim record sheets.

For further information, please contact Mr. Arthur Barr at (416)965-4888.

Yours sincerely,

J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888

AB/mc cc: R.S. Middleton Exploration Services Inc P.O. Box 1637 Timmins, Ontario P4N 7W8 Attention: G. Hodges Encl.

Mining Recorder Kirkland Lake, Ontario July 28, 1986

Your File: 2.9238 Our File: 194/86

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

Dear Madam:

RE: Notice of Intent dated July 18, 1986 Geophysical (Electromagnetic & Magnetometer) Surveys on Mining Claims L 755543, et al, in the Township of Blakelock

Please disregard the above-mentioned Notice of Intent. This submission has been reassessed and the credits as recorded on May 20, 1986 have been approved as of the above date.

Yours sincerely,

J.C. Smith, Supervisor Mining Lands Section

Whitney Block, 6th Floor Queen's Park Toronto, Ontario N7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: David V. Jones 1007 Jeant Street Timmins, Ontario P4N 1A8

> Mrt.G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario

R.S. Middleton Exploration Services Inc P.O. Box'1637 Timmins, Ontario P4N 7W8 Attention: G. Hodges

File No 29238

Mining Lands Section

Control Sheet

TYPE OF SURVEY

,

GEOLOGICAL

GEOPHYSICAL

GEOCHEMICAL

EXPENDITURE

MINING LANDS COMMENTS:

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Lgd.

p. Aust

Signature of Assessor

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