

REPORT ON

COMBINED HELICOPTER-BORNE

MAGNETIC, ELECTROMAGNETIC,

AND VLF-EM SURVEY

ON

NAMEIGOS RIVER CLAIMS

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MINING LANDS SECTION

for
PRYME ENERGY RESOURCES
by
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APPENDIX I - General Interpretive Considerations

LIST OF MAPS

(Scale: 1/15,840)

Map	1	Interpreted Conductive Units
Map	2	Airborne Electromagnetic Survey Profile Map (955 Hz. coaxial)
Map	3	Total Field Magnetic Map
Map	4	VLF-EM Total Field Contours

Data provided but not included in report:

- 1 master map (2 colour) of coaxial and coplanar profiles with flight path
- 2 anomaly last providing estimates of depth and conductivity thickness
- 3 analogue records of data obtained in flight

1. INTRODUCTION

This report describes an airborne geophysical survey carried out on behalf of Pryme Energy Resources Limited by Aerodat Limited. Equipment operated included a 3 frequency electromagnetic system, a VLF-EM system, and a magnetometer.

The survey was flown on March 26 to March 29, 1983 from an operations base at Wawa Ontario. A total of 869.5 line miles were flown, at a nominal line spacing of 660 feet. Of the total flown, this report describes 238.6 line miles.

2. SURVEY AREA/CLAIM NUMBERS AND LOCATIONS

The mining claim numbers and locations covered by this survey are indicated on the map in the following pocket.

3. AIRCRAFT EQUIPMENT

3.1 Aircraft

The helicopter used for the survey was an Aerospatial Astar 350D owned and operated by North Star Helicopters. Installation of the geophysical and ancillary equipment was carried out by Aerodat. The survey aircraft was flown at a nominal altitude at 60 meters.

3.2 Equipment

3.2.1 Electromagnetic System

The electromagnetic system was an Aerodat/
Geonics 3 frequency system. Two vertical
coaxial coil pairs were operated at 955 and
4130 Hz and a horizontal coplanar coil pair
at 4500 Hz. The transmitter-receiver separation was 7 meters. In-phase and quadrature
signals were measured simultaneously for the
3 frequencies with a time-constant of 0.1
seconds. The electromagnetic bird was towed
30 meters below the helicopter.

3.2.2 VLF-EM System

The VLF-EM System was a Herz 2A. This instrument measures the total field and vertical

quadrature component of two selected frequencies.

The sensor was towed in a bird 15 meters below
the helicopter.

The sensor aligned with the flight direction is designated as "LINE", and the sensor perpendicular to the line direction as "ORTHO". The "LINE" station used was NAA, Cutler Maine, 17.8 KHz or NLK, Jim Creek Washington, 24.8 KHz. The "ORTHO" station was NSS, Annapolis Maryland, 21.4 KHz. The NSS transmitter was operating on a very limited schedule and was not available during a large part of the survey.

3.2.3 Magnetometer

The magnetometer was a Geometrics G-803 proton precession type. The sensitivity of the instrument was 1 gamma at a 1.0 second sample rate. The sensor was towed in a bird 15 meters below the helicopter.

3.2.4 Magnetic Base Station

An IFG proton precession type magnetometer was operated at the base of operations to record diurnal variations of the earths magnetic field. The clock of the base station was synchronized with that of the airborne system

to facilitate later correlation.

3.2.5 Radar Altimeter

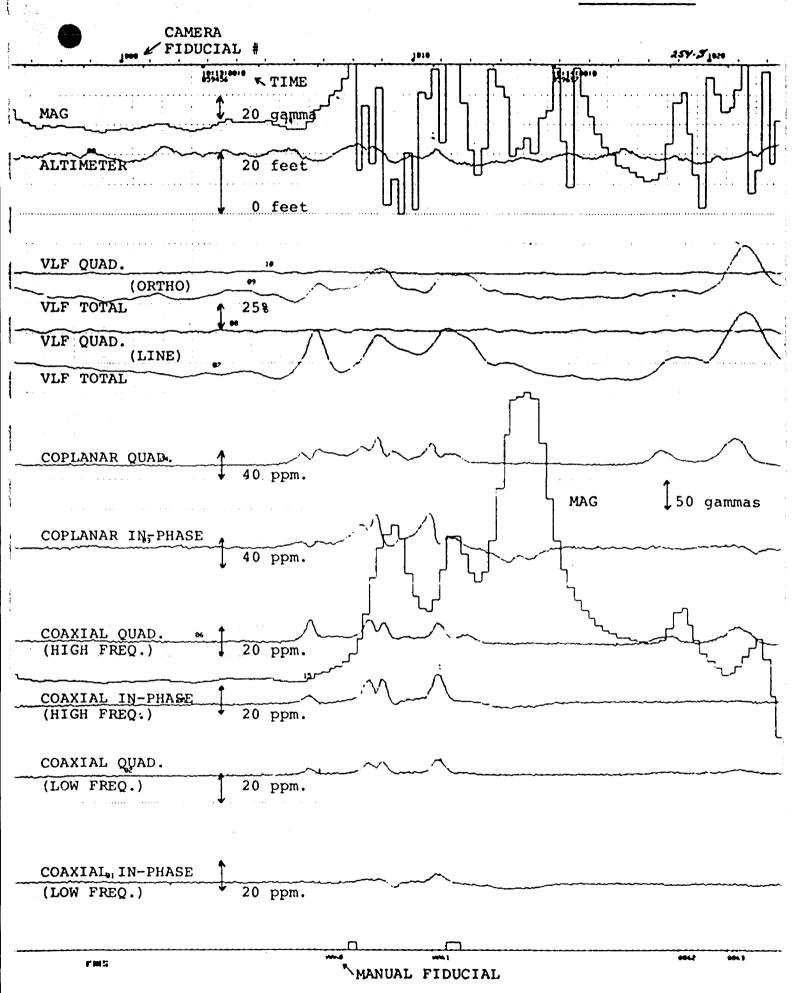
A Hoffman HRA-100 radar altimeter was used to record terrain clearance. The output from the instrument is a linear function of altitude for maximum accuracy.

3.2.6 Tracking Camera

A Geocam tracking camera was used to record flight path on 35 mm film. The camera was operated in strip mode and the fiducial numbers for cross reference to the analog and digital data were imprinted on the margin of the film.

3.2.7 Analog Recorder

A RMS dot-matrix recorder was used to display the data during the survey. A sample record with channel identification and scales is presented on the following page.



3.2.8 <u>Digital Recorder</u>

A Perle DAC/NAV data system recorded the survey data on cassette magnetic tape. Information recorded was as follows:

Equipment	Interval
EM	0.1 second
VLF-EM	0.5 second
magnetometer	0.5 second
altimeter	1.0 second
fiducial (time)	1.0 second
fiducial (manual)	0.2 second

4. DATA PRESENTATION

4.1 Base Map and Flight Path Recovery

The base map photomosaic at a scale of 1/15,840 was constructed from available aerial photography. The flight path was plotted manually on this base and digitized for use in the computer compilation of the maps. The flight path is presented with fiducials for cross reference to both the analog and digital data.

4.2 Electromagnetic Profile Maps

The electromagnetic data was recorded digitally at a high sample rate of 10/second with a small time constant of 0.1 second. A two stage digital filtering process was carried out to reject major sferic events, and reduce system noise.

Local atmospheric activity can produce sharp, large amplitude events that cannot be removed by conventional filtering procedures. Smoothing or stacking will reduce their amplitude but leave a broader residual response that can be confused with a geological phenomenon. To avoid this possibility, a computer algorithm searches out and rejects the major "sferic" events.

The signal to noise was further enhanced by the application of a low pass filter. The filter was applied digitally. It has zero phase shift which prevents any lag or peak displacement from occurring and it suppresses only variation with a wavelength less than about 0.25 seconds. This low effective time constant permits maximum profile shape resolution.

Following the filtering processes, a base level correction was made. The correction applied is a linear function of time that ensures that the corrected amplitude of the various inphase and quadrature components

is zero when no conductive or permeable source is present. This filtered and levelled data was then presented in profile map form.

The in-phase and quadrature responses of the coaxial 955 Hz configuration are plotted with the flight path and presented on the photomosaic base.

The in-phase and quadrature responses of the coaxial 4500 Hz and the coplanar 4130 Hz configuration are plotted with flight path and are available as a two colour overlay.

4.3 Magnetic Contour Maps

The aeromagnetic data was corrected for diurnal variations by subtraction of the digitally recorded base station magnetic profile. No correction for regional variation is applied.

The corrected profile data was interpolated onto a regular grid at a 2.5 mm interval using a cubic spline technique. The grid provided the basis for threading the presented contours at a 10 gamma interval.

4.4 VLF-EM Contour and Profile Maps

The VLF-EM "LINE" signal, was compiled in map form. The mean response level of the total field signal was removed and the data was gridded and contoured at an interval of 2%. When the "ORTHO" signal was available it was compiled in a similar fashion.

4.5 Electromagnetic Conductor Symbolization

The electromagnetic profile maps were used to identify those anomalies with characteristics typical of bedrock conductors. The in-phase and quadrature response amplitudes at 4130 Hz were digitally applied to a phasor diagram for the vertical half-plane model and estimates of conductance (conductivity thickness) were made. The conductance levels were divided into categories as indicated in the map legend; the higher the number, the higher the estimated conductivity thickness product.

As discussed in Appendix I the conductance should be used as a relative rather than absolute guide to conductor quality. A conductance value of less than 2 mhos is typical for conductive overburden material and electrolytic conducto; in faults and shears. Values greater than 4 mhos generally indicate some electronic conduction by certain metallic sulphides and/or graphite. Gold, although highly conductive, is not expected to occur in sufficient concentration to directly produce an electromagnetic anomaly; however, accessory mineralization such as pyrite or

graphite can produce a measurable response.

With the aid of the profile maps, responses of similar characteristics may be followed from line to line and conductor axes identified.

The distinction between conductive bedrock and overburden anomalies is not always clear and some of
the symbolized anomalies may not be of bedrock origin.

It is also possible that a response may have been
mistakenly attributed to overburden and therefore not
included in the symbolization process. For this reason,
as geological and other geophysical information becomes
available, reassessment of the significance of the
various conductors is recommended.

4.6 INTERPRETATION MAPS

The conductive trends are shown and discriminated for descriptive purposes.

These conductors are described below.

- Definite bedrock conductor flanking magnetic feature, best conductivity at centre.
- Questionable response in area of conductive overburden.
- Possible bedrock response with magnetic coincidence.
- Weak linear conductor appears to be in bedrock.
- 5 High amplitude poor conductivity parallel to magnetic features, possibly bedrock.
- Poor conductor parallel to magnetic high.
 Probably overburden.
- 7 Possible short bedrock (?) conductor with magnetic coincidence.

8	Questionable	conductor	on	magnetic	high.
•	× 000 00000000000000000000000000000000		•••		

9 Questionable unit at edge of overburden response.

Respectfully submitted,

August 8, 1983.

Fenton Scott, P.Eng.

APPENDIX I

GENERAL INTERPRETIVE CONSIDERATIONS

Electromagnetic

The Aerod t 3 frequency system utilizes 2 different transmitter-receiver coil geometries. The traditional coaxial coil configuration is operated at 2 widely separated frequencies and the horizontal coplanar coil pair is operated at a frequency approximately aligned with one of the coaxial frequencies.

The electromagnetic response measured by the helicopter system is a function of the "electrical" and "geometrical" properties of the conductor. The "electrical" property of a conductor is determined largely by its conductivity and its size and shape; the "geometrical" property of the response is largely a function of the conductors shape and orientation with respect to the measuring transmitter and receiver.

Electrical Considerations

For a given conductive body the measure of its conductivity or conductance is closely related to the measured phase shift between the received and transmitted electromagnetic field. A small phase shift indicates a relatively high conductance, a large phase shift lower conductance. A small phase shift results in a large in-phase to quadrature

ratio and a large phase shift a low ratio. This relationship is shown quantitatively for a vertical half-plane
model on the accompanying phasor diagram. Other physical
models will show the same trend but different quantitative
relationships.

The phasor diagram for the vertical half-plane model, as presented, is for the coaxial coil configuration with the amplitudes in ppm as measured at the response peak over the conductor. To assist the interpretation of the survey results the computer is used to identify the apparent conductance and depth at selected anomalies. The results of this calculation are presented in table form in Appendix I and the conductance and in-phase amplitude are presented in symbolized form on the map presentation.

The conductance and depth values as presented are correct only as far as the model approximates the real geological situation. The actual geological source may be of limited length, have significant dip, its conductivity and thickness may vary with depth and/or strike and adjacent bodies and overburden may have modified the response. In general the conductance estimate is less affected by these limitations than the depth estimate but both should be considered a relative rather than absolute guide to the anomalies properties.

Conductance in mhos is the reciprocal of resistance in ohms and in the case of narrow slab like bodies is the product of electrical conductivity and thickness.

Most overburden will have an indicated conductance of less than 2 mhos; however, more conductive clays may have an apparent conductance of say 2 to 4 mhos. Also in the low conductance range will be electrolytic conductors in faults and shears.

The higher ranges of conductance, greater than 4 mhos, indicate that a significant fraction of the electrical conduction is electronic rather than electrolytic in nature. Materials that conduct electronically are limited to certain metallic sulphides and to graphite. High conductance anomalies, roughly 10 mhos or greater are generally limited to sulphide or graphite bearing rocks.

Sulphide minerals with the exception of sphalerite, cinnabar and stibnite are good conductors; however, they may occur in a disseminated manner that inhibits electrical conduction through the rock mass. In this case the apparent conductance can seriously under rate the quality of the conductor in geological terms. In a similar sense the relatively non-conducting sulphide minerals noted above may be present in significant concentration in association with minor conductive

sulphides, and the electromagnetic response only relate to the minor associate mineralization. Indicated conductance is also of little direct significance for the identification of gold mineralization. Although gold is highly conductive it would not be expected to exist in sufficient quantity to create a recognizable anomaly but minor accessory sulphide mineralization could provide a useful indirect indication.

In summary the estimated conductance of a conductor can provide a relatively positive identification of significant sulphide or graphite mineralization; however, a moderate to low conductance value does not rule out the possibility of significant economic mineralization.

Geometrical Considerations

Geometrical information about the geologic conductor can often be interpreted from the profile shape of the anomaly. The change in shape is primarily related to the change in inductive coupling among the transmitter, the target, and the receiver.

In the case of a thin, steeply dipping, sheet-like conductor, the coaxial coil pair will yield a near symmetric peak over the conductor. On the other hand the coplanar coil pair will pass through a null couple relationship and yield a minimum over the conductor, flanked by positive side lobes. As the dip of the conductor decreases from vertical, the coaxial

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anomaly shape changes only slightly, but in the case of the coplanar coil pair the side lobe on the down dip side strengthens relative to that on the up dip side.

As the thickness of the conductor increases, induced current flow across the thickness of the conductor becomes relatively significant and complete null coupling with the coplanar coils is no longer possible. As a result, the apparent minimum of the coplanar response over the conductor diminishes with increasing thickness, and in the limiting case of a fully 3 dimensional body or a horizontal layer or half-space, the minimum disappears completely.

A horizontal conducting layer such as overburden will produce a response in the coaxial and coplanar coils that is a function of altitude (and conductivity if not uniform). The profile shape will be similar in both coil configurations with an amplitude ratio (coplanar/coaxial) of about 4/1.

In the case of a spherical conductor, the induced currents are confined to the volume of the sphere, but not relatively restricted to any arbitrary plane as in the case of a sheet-like form. The response of the coplanar coil pair directly over the sphere may be up to 8 times greater than that of the coaming coil pair.

In summary a steeply dipping, sheet-like conductor will display a decrease in the coplanar response coincident with the peak of the coaxial response. The relative strength of this coplanar null is related inversely to the thickness of the conductor; a pronounced null indicates a relatively thin conductor. The dip of such a conductor can be infered from the relative amplitudes of the side-lobes.

Massive conductors that could be approximated by a conducting sphere will display a simple single peak profile form on both coaxial and coplanar coils, with a ratio between the coplanar to coaxial response amplitudes as high as 8.*

Overburden anomalies often produce broad poorly defined anomaly profiles. In most cases the response of the coplanar coils closely follow that of the coaxial coils with a relative amplitude ratio of 4.*

Occasionally if the edge of an overburden zone is sharply defined with some significant depth extent, an edge effect will occur in the coaxial coils. In the case of a horizontal conductive ring or ribbon, the coaxial response will consist of two peaks, one over each edge; whereas the coplanar coil will yield a single peak.

* It should be noted at this point that Aerodat's definition of the measured ppm unit is related to the primary field sensed in the receiving coil without normalization to the maximum coupled (coaxial configuration). If such normalization were applied to the Aerodat units, the amplitude of the coplanar coil pair would be halved.

Magnetics

The Total Field Magnetic Map shows contours of the total magnetic field, uncorrected for regional varia-Whether an EM anomaly with a magnetic correlation is more likely to be caused by a sulphide deposit than one without depends on the type of mineralization. An apparent coincidence between an EM and a magnetic anomaly may be caused by a conductor which is also magnetic, or by a conductor which lies in close proximity to a magnetic body. The majority of conductors which are also magnetic are sulphides containing pyrrhotite and/or magnetite. Conductive and magnetic bodies in close association can be, and often are, graphite and magnetite. It is often very difficult to distinguish between these If the conductor is also magnetic, it will usually produce an EM anomaly whose general pattern resembles that of the magnetics. Depending on the magnetic permeability of the conducting body, the amplitude of the inphase EM anomaly will be weakened, and if the conductivity is also weak, the inphase EM anomaly may even be reversed in sign.

VLF Electromagnetics

The VLF-EM method employs the radiation from powerful military radio transmitters as the primary signals. The magnetic field associated with the primary field is elliptically polarized in the vicinity of electrical conductors. The Herz Totem uses three coils in the X. Y. Z. configuration to measure the total field and vertical quadrature component of the polarization ellipse.

The relatively high frequency of VLF 15-25 KHz provides high response factors for bodies of low conductance. Relatively "disconnected" sulphide ores have been found to produce measurable VLF signals. For the same reason, poor conductors such as sheared contacts, breccia zones, narrow faults, alteration zones and porous flow tops normally produce VLF anomalies. The method can therefore be used effectively for geological mapping. The only relative disadvantage of the method lies in its sensitivity to conductive overburden. In conductive ground the depth of exploration is severely limited.

The effect of strike direction is important in the sense of the relation of the conductor axis relative to the energizing electromagnetic field. A conductor aligned along a radius drawn from a transmitting station will be

in a maximum coupled orientation and thereby produce a stronger response than a similar conductor at a different strike angle. Theoretically it would be possible for a conductor, oriented tangentially to the transmitter to produce no signal. The most obvious effect of the strike angle consideration is that conductors favourably oriented with respect to the transmitter location and also near perpendicular to the flight direction are most clearly rendered and usually dominate the map presentation.

The total field response is an indicator of the existence and position of a conductivity anomaly. The response will be a maximum over the conductor, without any special filtering, and strongly favour the upper edge of the conductor even in the case of a relatively shallow dip.

The vertical quadrature component over steeply dipping sheet like conductor will be a cross-over type response with the cross-over closely associated with the upper edge of the conductor.

The response is a cross-over type due to the fact that it is the vertical rather than total field quadrature component that is measured. The response shape is due largely to geometrical rather than conductivity considerations and the distance between the maximum and minimum on either side of the cross-over is related to target depth. For a given target geometry, the larger this distance the greater the

depth.

The amplitude of the quadrature response, as opposed to shape is function of target conductance and depth as well as the conductivity of the overburden and host rock. As the primary field travels down to the conductor through conductive material it is both attenuated and phase shifted in a negative sense. The secondary field produced by this altered field at the target also has an associated phase shift. This phase shift is positive and is larger for relatively poor conductors. This secondary field is attenuated and phase shifted in a negative sense during return travel to the surface. The net effect of these 3 phase shifts determine the phase of the secondary field sensed at the receiver.

A relatively poor conductor in resistive ground will yield a net positive phase shift. A relatively good conductor in more conductive ground will yield a net negative phase shift. A combination is possible whereny the net phase shift is zero and the response is purely in-phase with no quadrature component.

A net positive phase shift combined with the geometrical cross-over shape will lead to a positive quadrature response on the side of approach and a negative on the side of departure. A net negative phase shift would produce the reverse. A further sign reversal occurs with a 180 degree

change in instrument orientation as occurs on reciprocal line headings. During digital processing of the quadrature data for map presentation this is corrected for by normalizing the sign to one of the flight line headings.



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Initial Check	M. Anderson Doc 28, 1987
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Notice of Intent filed	
Approval after Notice of Intent sent out	
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SELF POTENTIAL	
nstrument	Range
Survey Method	
Corrections made	
RADIOMETRIC	
Instrument	
Values measured	
Energy windows (levels)	
Height of instrument	Background Count
Size of detector	
Overburden	include outcrop map)
(spet debit.	made outlop may;
OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)	
Type of survey	
Instrument	
Accuracy	
Parameters measured	
Additional information (for understanding results)	
Additional information (for understanding results)	
AIRBORNE SURVEYS	
Type of survey(s) MAGNETIC	EM
AIRBORNE SURVEYS Type of survey(s) MAGINETIC Instrument(s) GEOMETRICS G ÷ 803	
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AIRBORNE SURVEYS Type of survey(s)	EM AERODAT 3 FRER Th type of survey) /PPM Th type of survey) HELICOPTER 100' NAVIGATION, MANUAL AND

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Ontario

Ministry of Natural Resources

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GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

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

Township or Area BRECKENRIC Claim Holder(s) ROCCO SC Survey Company AERO DA' Author of Report FENTON Address of Author 17 MAL	T LIMITED SCOTT ABAR PL. DONMILLS ONT	
	(linecutting to office)	
Total Miles of Line Cut	238.6	
SPECIAL PROVISIONS CREDITS REQUESTED	DAY8 Geophysical per claim	
ENTER 40 days (includes line cutting) for first survey.	Electromagnetic Magnetometer Radiometric	
ENTER 20 days for each	-Other	
additional survey using same grid.	Geological	
	Geochemical	
Magnetometer 26.2-Electromag	days per claim)	RECEIVED
Res. Geol. Qual	ifications 13. 9.13	MINING LANDS SECTION
Previous Surveys		
File No. Type Date	Claim Holder	
[·····································		

OFFICE USE ONLY



Ministry of Natural Resources

1493

Report of Work (Geophysical, Geological,

Please type or print.

If number of mining claims treversed 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 hallow.

Geochemical and Expenditures) Type of Survey

let -	Do not use shaded areas below.
Township o	or Area
NAMEI	GOS & MOSAMBIK
	Prospector's Licence No.
ached appendix	A-39586
MJH 3M7	
Date of Survey (from & to)	Total Miles of line Cut
Day Mo. Yr. Day A	νο. Υr. 238.6
	NAME:

Aerodat Name and Address of Author (of Geo-) ... hnical report) Fenton Scott, 17 Malabar Place, Don Mills, Ont. Credits Requested per Each Claim in Columns at right Mining Claims Traversed (List in numer Mining Claim Number Special Provisions Prefix For first survey: SSM 638372 - Electromagnetic Enter 40 days, (This includes line cutting) - Magnatometer 638373 - Radiometric 638374 For each additional survey: using the same grid: 638375 Enter 20 days (for each) Geological 638376 Geochemical 638377 Man Days Days per Claim 638378 Geophysical Complete reverse side . - Electromagnetic 638379 and enter total(s) here Magnetometer 638380 638381 638382 - Other Milli Gappaical -. 638383 638384 Geochemical Airborne Credits Days per Claim 638385 638386 20 Note: Special provisions Electromagnetic credits do not apply 638387 . to Airborne Surveys. Magnetometer 638388 Radiometric Expenditures (excludes power stripping of Warle

Type of Work Ferformed RECEIVE 638389 638390 Performed on Claim(s) 638391 NOV 8 1983 638392 71819110111112111213141516 638393 Calculation of Expenditure Days Credits Total Days Credits 638394 Total Expenditures \$ 15 + claims covered by this report of work. Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right. Recorded Holder or Agent (Signature)

rical sequence)			
Profix	lining Claim Number	Expend. Days Cr.	
SSM	638395 ·		
	638396 ·		
}	638397 ·		
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	657546		
	657547		
	657548		
	651549		
	657550		
	657551		
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Total nur	nber of mining		

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	r Office Use Only	<u> </u>	
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030,2		Oliveron 2 CO	フ
	84.4.3	China China	

file on

Certification Verifying Report of Work	221		1
I hereby certify that I have a personal and intimate knowledge of the facts set	forth in the Report of Work annexed	herete, having perfo	orwed the work
or witnessed same during and/or after its completion and the annexed report	is true.		

or witnessed same during and/or after its completion and the annexed report is true.					
 		Person Certifying			
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TO The Une and with	ر، الشار،	12.05	
			Certified by (Signature)
Time mine Ont		11:1.10 193	70 5 723
1362 (81/9)		file on SS	M 638372

*Ministry of Natural Resources Report of Work (Geophysical, Geological, Geochemical and Expenditures)

341 83 Note: The Mining Act 2.6150

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.

ype of Survey(e)			The Mining	ACT LOLL			shaded areas beli	ow.
Geophysical E.M.	& Mag. (Airbor	ne)			Township of Breck	enridge	& Lizar	<u> </u>
Claim Holder(s) Rocco Schiralli (In Trust)					A-39	r's Licence No. 586	
Suite 420, 181 Un	iversity Ave.,	Toront	o, Ontari	, 10	H 3 m	7		
Aerodat Limited,	Mississauga, O	nt.		Date of Surve	83 29		Total Miles of lin 238.6	e Cut
Fenton Scott, 17		Don Mi	lls, Onte			R5		
redits Requested per Each (Claim in Columns at r	ight	Mining Cla	sims Traversed	(List in nume	rical seque	nce)	
pecial Provisions	Geophysical	Days per Claim	Prefix i	ning Claim Number	Expend. Days Cr.	Profix	lining Claim Number	Expend. Days Cr.
For first survey:	- Electromagnatic				134.34			1
Enter 40 days. (This includes line cutting)	***		P	661265 661266		P	689774 689789	
	- Magnetometer		Jahr Marian					
For each additional survey:	- Radiemetric		- Line	661267		22.5	689790	İ
using the same grid:	- Other			661268			689791	
Enter 20 days (for each)	Geological		1	661269		1.33	689792	
	-		CONTRACT I					
·	Geochemical		226-02-5	661270		37.	689793	
Man Days	Geophysical	Days per Claim	48.00	661271			689794	
Complete reverse side and enter total(s) here	- Electromagnetic		many rains	661272			689810	
	- Magnetometer			661273			689811	
ş ¹ → #	- Radiometric		A STATE OF THE STA	661274			600812	
	- Other			661275		L. 2	689813	
	 Geological		4	689725			689814	
	Geochemical		1 3 × 1	689738		30.0	689815	
Airborne Credits		Days per		689739			689816	
Note: Special provisions	Electromagnetic	Claim	-	689742			689831	
creaits do not apply		20					009031	
to Airborne Surveys.	Magnetometer	20		689743	_		689832	
	Radiometric	<u>i</u>	3 -	689753		<u> </u>	689833	
Expenditures (excludes pow	er stripping)			689754			689834	- 1
· · · · · · · · · · · · · · · · · · ·	ECORDE	D		689757		1 W.	689835	
Performed on Claim(s)				639758			689836	
	NOV 7 1583			689769		139	689837	
P	minima Cl					13.		
Calculation of Expenditute Day	a Credite	Total		689770		. (*)	689838	
Total Expanditures		's Credits	1. On 1887	689773		SF	E ATTACHED	urst
\$	+ 15 =		PORCHIPINE M	INING DIVISION	 -		mber of roining	72
Instructions		17	ם מו צו מ		<u>م</u> ا	report of		16
Total Days Credits may be a choice. Enter number of day			KEUE	For Office U	Haly V	7		
in columns at right.		l n	REFFER	Cr. Date Record		Mining 9	500 N	1
Date Re	corded Holder or Agent			3 000 Tim	V+378	3	Manle	1
Oct. 31/83	C. C. Toward		M. 2 880 81911011111	21112;31415			19 Recorder	3
Certification Verifying Repo				<i>X</i>	8-		Z	7
I hereby certify that I have a					rt of Wirk anne	xed hereto,	having performa	ofine work
or witnessed same during an		and the ans	executeport is	True.			· ************************************	
	_							
R.C. Denommee, P	.v. DOX 1207,			Date Certific	đ	Certified	by (Signature)	<u></u>
Timmins, Onv.				Oct. 3:			-12	
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LIST OF CLAIMS FOR AIRBORNE E.M. & MAG. SURVEY:

CLAIM NOS.	ASSESSMENT WORK:
P-690409	40 days
690410	40
691087	40
691088	40
691089	40
691094	40
691095	40
691096	40
691097	40
691260	40
691261	40
691262	40
691277	40
691282	40
691283	40
691284	40
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691370	14 O
691371	40
691372	40

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Rocco Schiralli (In Trust) is agent for the following:

Noranda Exploration Company, Limited (NPL)

A.34387

Denis DeSerres

K.19783

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List of Claims for airbonne Mag. Survey

Claim Ro.	Dosesment Work	Claim No	Arow Trumacean
SM-157552	40 Says	55M-689717	40 bays.
LB7554	40 "	689718	40 "
5M-661289	40 "	689719	40 "
661290	40 "	689720	40 "
661291	., 40 "	68972.1	40 "
661292	Lto "	55M-689740	40 "
661293	rto "	689741	40 "
661294	40 "	55M- 689755	40 "
661295	40 "	189756	40 "
661296	40 "	55M-689771	40 "
661297	40 "	689772	40 "
661298	140 "	55M - 690401	40 "
661299	40 "	690402.	40 "
661300	40 "	690403	40 "
55M- 689701	40 "	690404	40 "
689702	40 "	690405	40 "
689703	H0 "	690406	- 40 "
689704	40 "	690407	40 "
689705	40 "	690408	40 "
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689708	40 "	690413	40 "
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689711	40 "	690416	40 "
689712	40 "	690417	40 "
689713	40 "	690418	40 "
689714	40 "	690419	40 "
689715	40 "	55M- 690421	40 "
689716	40	८१०५२।	40 "

kim No.	assessment Work	ClaimiNo a	Now Trimere
1- 640 HSS	HO Says	55m-690452	40 Says
690423	40 "	690453	40 Says
690424	.40 "	690454	40 "
690425	40 "	690455	40 "
690426	40 "	690456	40 "
690427	40 "	690457	40 "
690428	40 "	690458	40 "
690429	40 "	690459	40 "
690430	140 "	690460	40 "
690431	40 "	690461	H0 "
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690445	40 "	690475	40 "
690446	40 "	690476	40 "
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690449	40 "	690479	40 "
690450	40 "	690480	40 "
690451	40 "	690481	40 "

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	690486	46 "	690516	40
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	690510	40 "	690540	40 "
	690511	46 "	690541	40 "

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Your File: 341

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Our File: 2.6150

Mrs. H.V. St. Jules
Mining Recorder
Ministry of Natural Resources
875 Queen Street East
P.O. Box 669
Sault Ste. Marie, Ontario
P6A 5N2

Dear Madam:

We have received reports and maps for an Airborne Geophysical (Electromagnetic and Hagnetometer) Survey submitted on Mining Claims SSM 638372 et al in the Townships of Nameigos and Mosambik.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours veer truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

A. Barr:mc

cc: Rocco Schiralli (In Trust)
Suite 420
181 University Avenue
Toronto, Ontario
M5H 3M7

cc: Fenton Scott
17 Malabar Place
Don Mills, Ontario
M3B 1A5

1983 12 20

Your File: 341

Our File: 2.6150

Mining Recorder
Hinistry of Natural Resources
60 Wilson Avenue
Timmins, Ontario
P4N 257

Dear Sir:

We have received reports and maps for an Airborne (Electromagnetic and Magnetometer) Survey submitted on Mining Claims P661265 et al in the Townships of Breckenridge and Lizar.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

A. Barr:mc

cc: Rocco Schiralli (in trust)
Suite 420
181 University Avenue
Toronto, Ontario
M5H 3M7

cc: Fenton Scott 17 Malabar Place Don Mills, Ontario M3B 1A5



Geotechnical Report Approval

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	Approved	Wish to see again with corrections	Date	Signature
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To: Mining Lands Section, Room 6462, Whitney Block.

(Tel: 5-1380)

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LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE (X)

