GROUND GEOPHYSICAL SURVEYS
Old Red Property
OroGrande RESOURCES INC.
Leonard Township

Oct. 1998

NTS 41 P/11

Meegwich Consultants Inc. P.O. Box 482, Temagami, Ontario P0H 2H0 Tel. (705) 569-2904 Fax. (705) 569-2817

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF MAPS

1.0 INTRODUCTION:

At the request of Guillermo Salazaar, a program of linecutting and geophysical surveys was carried out from October 1-25, 1998 on the Old Red Property held by OroGrande Resources Inc. Suite 926, 1122 Fourth St. SW, Calgary, Alberta T2R 1M1. The geophysical work was executed by David Laronde and Real Gauthier of Meegwich Consultants Inc. P.O. Box 482, Temagami, Ontario POH 2HO. David Laronde supervised the work and is the author of this report. Total field magnetometer and VLF-EM surveying was done on both grids.

Linecutting: A total of 21.05 km of linecutting was done by McBride Linecutting. 18.250 km of crosslines was cut from 2.80 km of chain sawed baselines running at an azimuth of 045 degrees.

2.0 PROPERTY:

The property consists of a group of 13 contiguous mining claims situated in the southwest corner of Leonard Tp. in the Larder Lake Mining Division. The total area of the property is 752 hectares (47 claim units). The claims are numbered as follows:

1211490	2 units	1211994	1 units
1186434	1 unit	1186432	1 unit
1186433	1 unit	1200297	2 units
1213806	1 unit	1225426	5 units
1223240	8 units	1211995	4 units
1223242	6 units	1223241	13 units
1223243	2 units		

Topography: The terrain is typically rugged with about 50% wet, low lying areas and 50% drained land. Dense conifer growth and abundant deadfall which hampered the linecutting are also common.

3.0 LOCATION AND ACCESS:

As the crow flies the property is located 25 km southwest of the hamlet of Gowganda which is 75 km southwest of the town of Kirkland Lake, Ontario. The claims are accessible by first taking Hwy 560 to a point some 38 km west of Gowganda. From this location further access to the claim group is via logging roads which wind southward onto the claims.

4.0 MAGNETOMETER SURVEY:

A total of 21.050 km was surveyed (1684 readings) at 12.5 meter stations on lines spaced at 200 meters.

4.1 Instrumentation: A GEM Systems GSM 19 Overhauser Magnetometer, Serial no. 58479 was used for the survey. A base station was set up on the property to monitor and correct for the diurnal variation during the course of the survey. These instruments are micro-processor based and measure the earth's total magnetic field to an accuracy of one-tenth of a gamma.

4.2 Survey Results: The results are presented in contour form on plans at 1:5000 scale.

Generally speaking the magnetometer survey shows a few intense highs and linears that contrast with a relatively quiet front with most values falling in the 400-800 gamma range.

An intense high is noted at the west end of the grid. The highs are confined to a small area and the intensity is consistent with that of gabbro or iron formation. Another high noses into the survey area on L 800 and 1000 E at the southeast end. Although not as intense as the previous high, this one appears more massive.

A (dike) linear feature can be seen from L 0 to L 600 E at 500 N. This response location has been trenched and sampled previously. The width of the response is 20-30 meters and trends at 40 degrees.

5.0 VLF ELECTROMAGNETIC SURVEY:

A total of 18.250 km was surveyed for a total of 730 readings taken at 25 meter stations on lines spaced at 200 meters. All readings were taken while facing north.

5.1 Instrumentation: A Geonics EM-16 VLF-EM receiver (Ser. No. 8404014) was used for the survey. The in-phase and quadrature components were recorded using VLF transmitting station Cutler, Maine NAA transmitting at 24.0 kHz. The measured quantities are the in-phase and quadrature components of the vertical magnetic field measured as a percentage of horizontal primary field (read to a resolution of +/- 1%).

5.2 Survey Results: The results of the survey are presented in profile form on plans at 1:5000 scale.

Note: Because of the high frequencies used, VLF surveys tend to pick up topographic and geological noise (overburden filled depressions) as well as prospective mineralized horizons.

The survey picked up 10 conductive horizons ranging from weak to strong anomalies. These are described as follows:

Conductor	Strength	Length	Probable source	Mag Assoc.
A	moderate	350	creek fault	possible
B	moderate	475	mineralization	possible
C	weak	500	creek fault	no
D	weak	650	?	?
E	strong	100+	mineralization	yes
F	mod.-strong	400+	mineralization	?
G	weak	500	topographic	no
H	moderate	600	creek fault	no
I	weak	375	mineralization	yes
J	moderate	400+	topo/mineralization	yes

6.0 CONCLUSIONS AND RECOMMENDATIONS:

The magnetic survey has highs on both the east and west end. The intensity of the readings definitely suggest concentrations of magnetic mineral commonly

associated with gabbro or iron formation. The middle section of the grid is fairly quiet which conforms with the mapped sediment rock unit.

Several VLF-EM conductors were produced from the survey. Some of these anomalies are worthy of follow-up work while some were co-incident with creek lineaments and did not have a metallic signature. Conductors for future consideration are B,E,F,I and J.

Follow-up work:

The line spacing should be brought down to 100 meters in the areas of the aforementioned conductors. Magnetometer and HLEM or I.P. coverage is recommended as a next phase before drilling. The VLF-EM survey is not conclusive enough on its own and a deeper penetrating geophysical tool is a logical choice in detecting sulphides associated with gold and base metal deposits. In addition, more advanced geophysics will provide details on attitude, width and depth for drilling purposes.

References

Ontario Geological Survey	Map 2362 Geological Compilation Series Timmins-Kirkland Lake 1 inch to 4 miles
M.W. Carter 1977	Geoscience Report 146 ODM Geology of Fawcett and Leonard Twps.

CERTIFICATE OF AUTHOR

I, David Laronde of the town of Temagami, Ontario hereby certify:

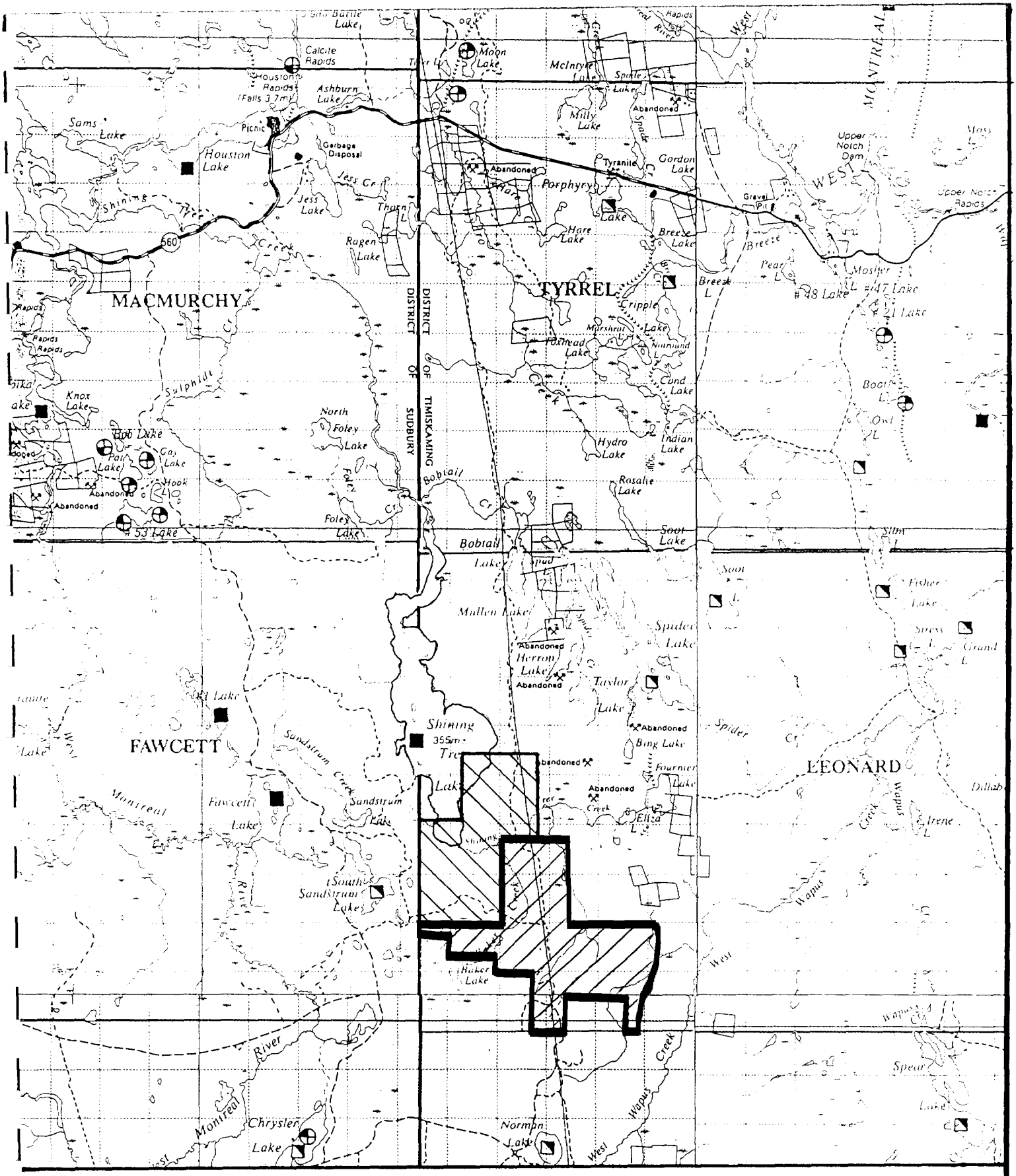
1. That I am a geology engineering technologist and have been engaged in mineral exploration for the past 19 years.

2. That I am a graduate of Cambrian College in Sudbury with a diploma in Geology Engineering Technology 1979.

3. That my knowledge of the property described herein was acquired by field work and documentation.

Dated at Temagami this 26th day of October 1998.

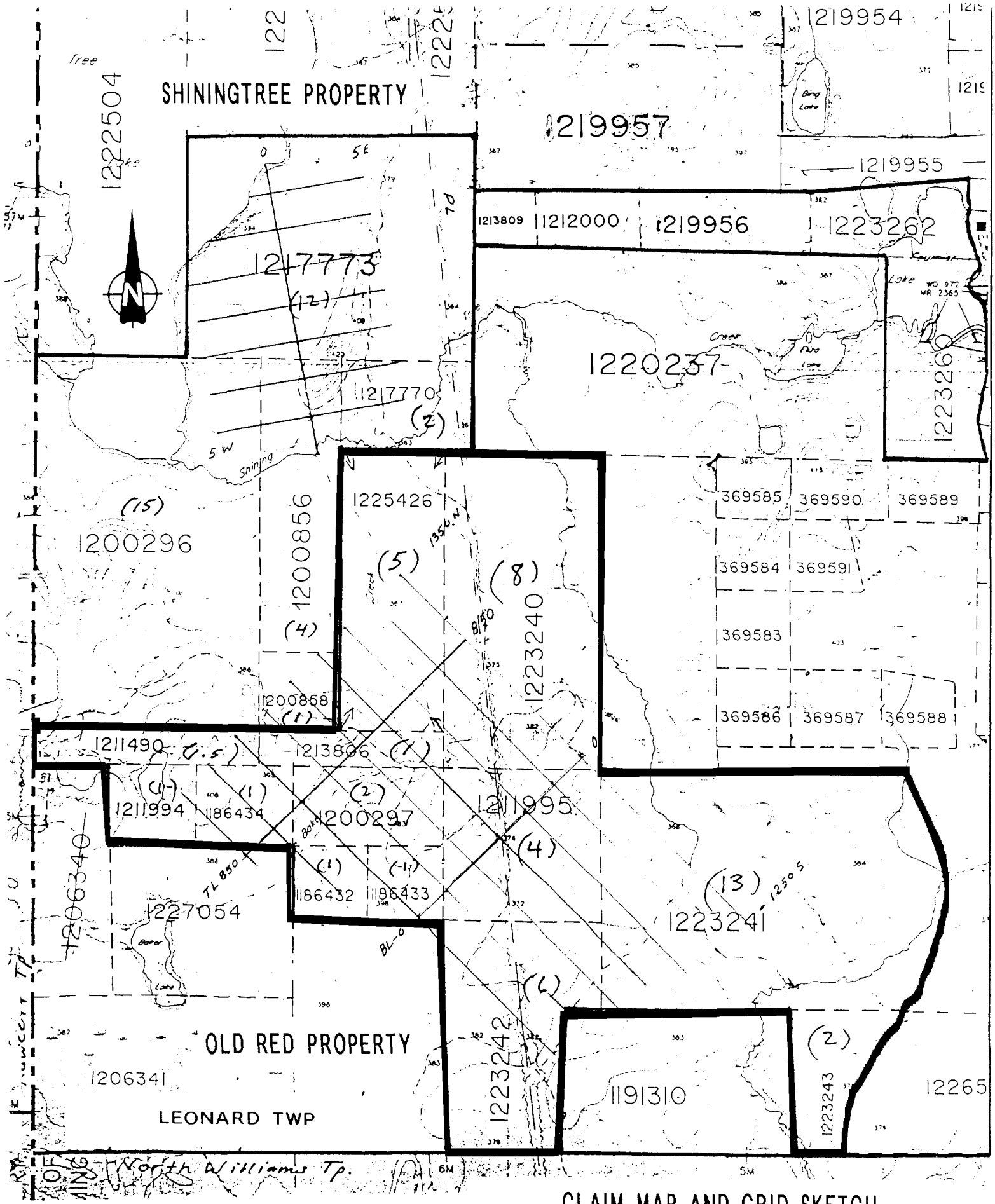
David Laronde



LOCATION MAP

1:100,000

FIG 1



CLAIM MAP AND GRID SKETCH

FIG 2

GEM SYSTEM GSM-19 WALKING MAG

INSTRUMENT SPECIFICATIONS

MAGNETOMETER / GRADIOMETER

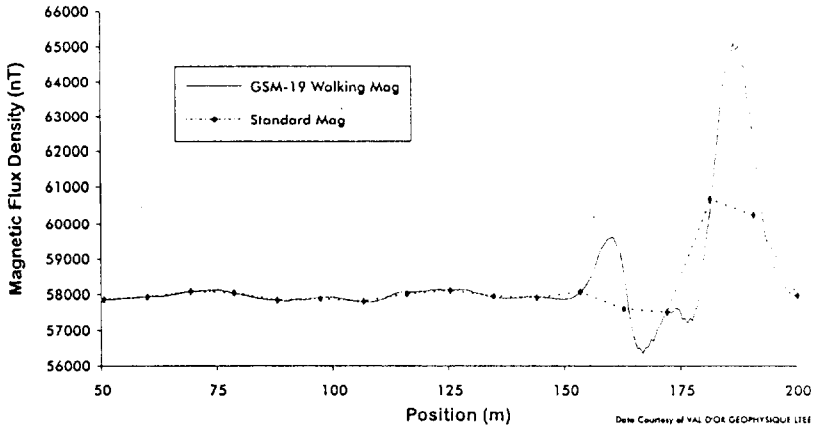
Resolution:	0.01 nT (gamma), magnetic field and gradient.
Accuracy:	0.2 nT over operating range.
Range:	20,000 to 120,000 nT.
Gradient Tolerance:	Over 10,000 nT/m
Operating interval:	3 seconds minimum, faster optional. Readings initiated from keyboard, external trigger, or carriage return via RS-232-C.
Input/Output:	6 pin weatherproof connector, RS-232C, and (optional) analog output.
Power Requirements:	12 V, 200 mA peak (during polarization), 30 mA standby. 300mA peak in gradiometer mode.
Power Source:	Internal 12 V, 2.6 Ah sealed lead-acid battery standard, others optional. An External 12V power source can also be used.
Battery Charger:	**Input:** 110 VAC, 60 Hz. Optional 110/220 VAC, 50/60 Hz. **Output:** dual level charging.
Operating Ranges:	Temperature: **-40 °C to +60 °C.** Battery Voltage: **10.0 V minimum to 15V maximum.** Humidity: **up to 90% relative, non condensing.**
Storage Temperature:	-50°C to +65°C
Display:	**LCD:** 240 x 64 pixels, or 8 x 30 characters. Built in heater for operation below -20°C
Dimensions:	**Console:** 223 x 69 x 240mm. **Sensor staff:** 4 x 450mm sections. **Sensor:** 170 x 71mm dia. **Weight:** Console 2.1kg, Staff 0.9kg, Sensors 1.1kg each.

"Walking" Magnetometer / Gradiometer

GEM Systems pioneered the GSM-19's innovative "Walking" option that enables acquisition of nearly continuous data on survey lines. Similar to an airborne survey in principle, data is recorded at discrete time intervals (up to 2 readings per second) as the instrument travels along the line. At each major survey picket (fiducial), the operator touches a designated key. The Walking Mag automatically assigns a linearly interpolated coordinate to all intervening readings.

A main benefit of the Walking option is that the high sample density improves definition of geologic structures. And because the operator can record data on a near-continuous basis, the Walking Mag increases survey efficiency and minimizes field expenditures -- especially for highly detailed ground-based surveys.

Near-Continuous Surveys Improve Definition of Magnetic Anomalies



As shown above, near-continuous measurements increase definition. Results from a GSM-19 "Walking Mag" (273 readings over 150 m with 2 sec. cycle time) were compared with results from a standard magnetometer (13 readings over 150m).

VLF-EM GEONICS

EM16 SPECIFICATIONS

MEASURED QUANTITY	Inphase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity).
SENSITIVITY	Inphase: ±150% Quad-phase: ± 40%
RESOLUTION	±1%
OUTPUT	Nulling by audio tone. Inphase indication from mechanical inclinometer and quadphase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz (15-30 kHz optional) VLF Radio Band. Station selection done by means of plug-in units.
OPERATOR CONTROLS	ON/OFF switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
POWER SUPPLY	6 disposable 'AA' cells.
DIMENSIONS	53 x 21.5 x 28 cm
WEIGHT	Instrument: 1.8 kg Shipping: 8.35 kg

CAUTION:

EM16 inclinometer may be damaged by exposure to temperatures below -30°c. Warranty does not cover inclinometers damaged by such exposure.

GROUND GEOPHYSICAL SURVEYS
Shining Tree Property
OroGrande Resources Inc.
Leonard Township

Oct. 1998

NTS 41 P/11

Meegwich Consultants Inc. P.O. Box 482, Temagami, Ontario P0H 2H0 Tel. (705) 569-2904 Fax. (705) 569-2817

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF MAPS

1.0 INTRODUCTION:

At the request of Guillermo Salazaar, a program of linecutting and geophysical surveys was carried out from September 24 to October 25, 1998 on the Shining Tree Property held by OroGrande Resources Inc. Suite 926, 1122 Fourth St. SW, Calgary, Alberta T2R 1M1. The geophysical work was executed by Robert Sanderson and Real Gauthier of Meegwich Consultants Inc. P.O. Box 482, Temagami, Ontario POH 2HO. David Laronde supervised the work and is the author of this report. Total field magnetometer and VLF-EM surveying was done on both grids.

Linecutting: A total of 8.155 km of linecutting was done by McBride Linecutting. 6.600 km of crosslines was cut from 1.555 km of chain sawed baselines running at an azimuth of 170 degrees.

2.0 PROPERTY:

The property consists of a group of 5 contiguous mining claims situated in the southwest corner of Leonard Tp. in the Larder Lake Mining Division. The total area of the property is 544 hectares (34 claim units). The claims are numbered as follows:

1200296	15 units	1217773	12 units
1217770	2 units	1200858	1 unit
1200856	4 units		

Topography: The terrain is typically rugged and well drained. A prominent ridge runs down the east side of the grid.

3.0 LOCATION AND ACCESS:

As the crow flies the property is located 25 km southwest of the hamlet of Gowganda which is 75 km southwest of the town of Kirkland Lake, Ontario. The claims are accessible by first taking Hwy 560 to a point some 38 km west of Gowganda. From this location further access to the claim group is via logging roads which wind southward onto the claims. Further access is provided by the Ontario Hydro powerline service road. There is also boat access from East Shining Tree Lake.

4.0 MAGNETOMETER SURVEY:

A total of 8.155 km was surveyed (652 readings) at 12.5 meter stations on lines spaced at 200 meters.

4.1 Instrumentation: A GEM Systems GSM 19 Overhauser Magnetometer, Serial no. 58479 was used for the survey. A base station was set up on the property to monitor and correct for the diurnal variation during the course of the survey. These instruments are micro-processor based and measure the earth's total magnetic field to an accuracy of one-tenth of a gamma.

4.2 Survey Results: The results are presented in contour form on plans at 1:5000 scale.

The west half of the grid is relatively flat (350-450 gammas) with an isolated high at the west end of L 12 N.

The east half of the grid contains several highs and lows (di-polar responses) that together may represent one rock type with concentrations of highly magnetic mineral. The rock unit trends at 10 degrees and is not fully covered to the east. A narrow low spans from L 10 N at 475 E to L 2 N at 340 E.

A narrow linear response (dike) spans L 4 N to 14 N just east of the baseline. The trend of this feature is due north.

5.0 VLF-EM Survey:

A total of 8.155 km was surveyed for a total of 326 readings taken at 25 meter stations on lines spaced at 200 meters. All readings were taken while facing north.

5.1 Instrumentation: A Geonics EM-16 VLF-EM receiver (Ser. No. 8404014) was used for the survey. The in-phase and quadrature components were recorded using VLF transmitting station Cutler, Maine NAA transmitting at 24.0 kHz. The measured quantities are the in-phase and quadrature components of the vertical magnetic field measured as a percentage of horizontal primary field (read to a resolution of +/- 1%).

5.2 Survey Results: The results of the survey are presented in profile form on plans at 1:5000 scale.

Note: Because of the high frequencies used, VLF surveys tend to pick up topographic and geological noise (overburden filled depressions) as well as prospective mineralized horizons.

The survey picked up seven conductive horizons that are weak and relatively short in strike length. Characteristics of each are as follows:

Conductor	**Strength**	**Length (m)**	**Probable source**	**Magnetic Assoc.**
A	moderate	?	metallic	not apparent
B	weak-mod.	400+	topo/fault/metallic	possible
C	weak-mod.	?	topo/metallic	no
D	weak	?	?	yes
E	weak	100	resistivity shift	no
F	weak	100	topo/metallic	no
G	weak	100	metallic?	Yes

6.0 CONCLUSIONS AND RECOMMENDATIONS:

This phase of work has outlined geologic contacts in the magnetometer survey. The east side of the grid contains an area of highs that indicate a rock unit containing concentrations of magnetic mineral(s). This rock unit has the appearance of Nipissing gabbro. The north part of the grid is also appears to be gabbroic. The intensity of the highs and di-polar responses are interesting and might indicate the presence of mineralization other than magnetite.
The quiet magnetic background to the west side of the grid is likely due to the underlying sedimentary geology.

The VLF-EM anomalies are for the most part poor conductors that might be indicating poorly connected metallic grains (disseminated or stringer

mineralization) . The conductors remain intriguing because disseminated mineralization is a poor conductor and there is magnetic association to varying degrees. Due to the nature of the VLF-EM instrumentation the results are indicative of mineralization but not conclusive enough for drilling. A superior EM system or I.P. is needed further test the conductors and define the geometry of drill targets.

Follow-up work:

HLEM and/or I.P. coverage is recommended as a next phase before drilling. The VLF-EM survey is not conclusive enough on its own and a deeper penetrating geophysical tool is a logical choice.

Follow-up work should consist of extending the lines to the east property boundary to cover the massive magnetic feature. Line spacing should be reduced to 100 meters.

References

Ontario Geological Survey	Map 2362 Geological Compilation Series Timmins-Kirkland Lake 1 inch to 4 miles
M.W. Carter 1977	Geoscience Report 146 - Geology of Fawcett and Leonard Twps. ODM

CERTIFICATE OF AUTHOR

I, David Laronde of the town of Temagami, Ontario hereby certify:

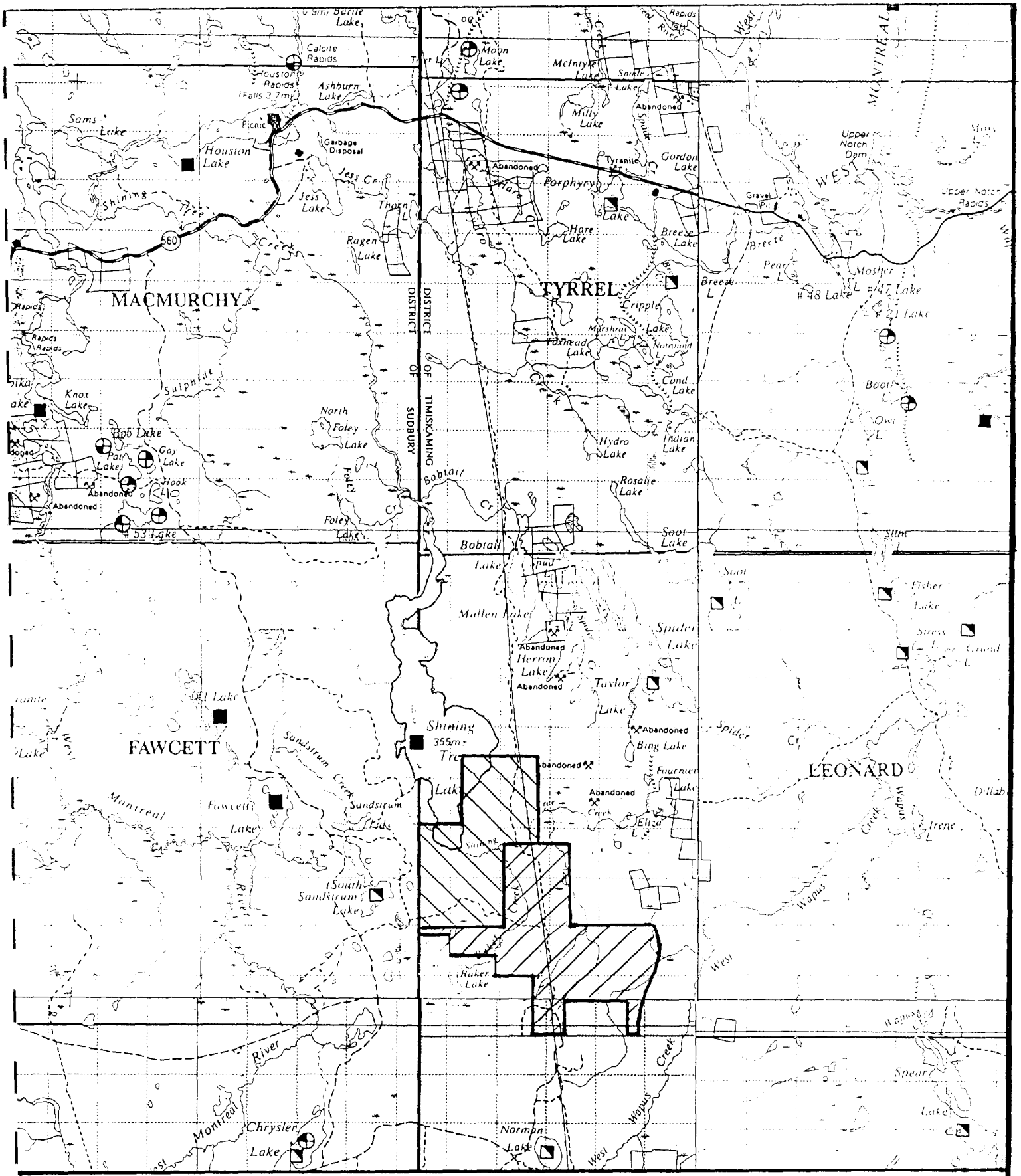
1. That I am a geology engineering technologist and have been engaged in mineral exploration for the past 19 years.

2. That I am a graduate of Cambrian College in Sudbury with a diploma in Geology Engineering Technology 1979.

3. That my knowledge of the property described herein was acquired by field work and documentation.

Dated at Temagami this 26th day of October 1998.

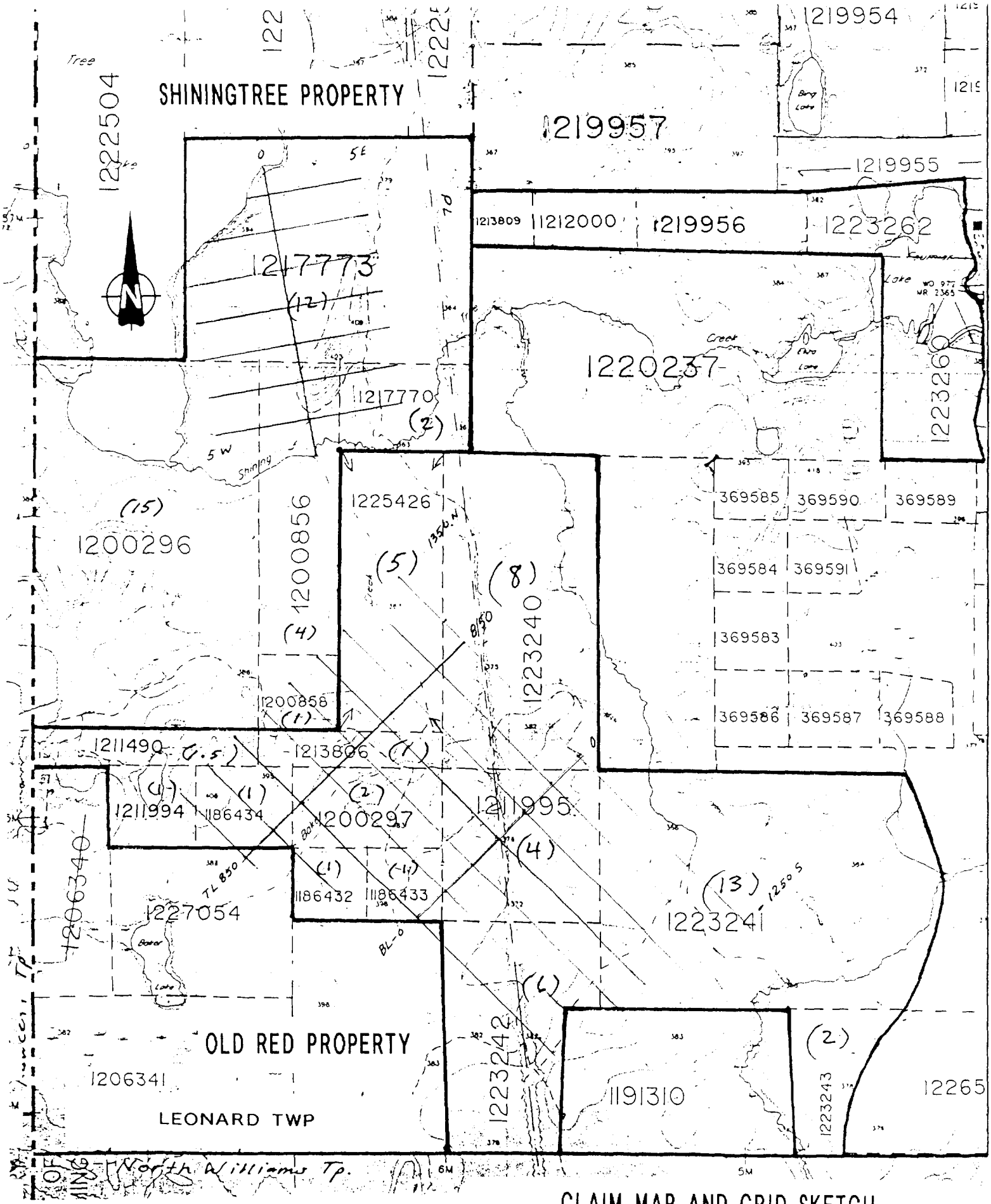
David Laronde



LOCATION MAP

1:100,000

FIG 1



CLAIM MAP AND GRID SKETCH

1:25000

FIG 2

GEM SYSTEM GSM-19 WALKING MAG

INSTRUMENT SPECIFICATIONS

MAGNETOMETER / GRADIOMETER

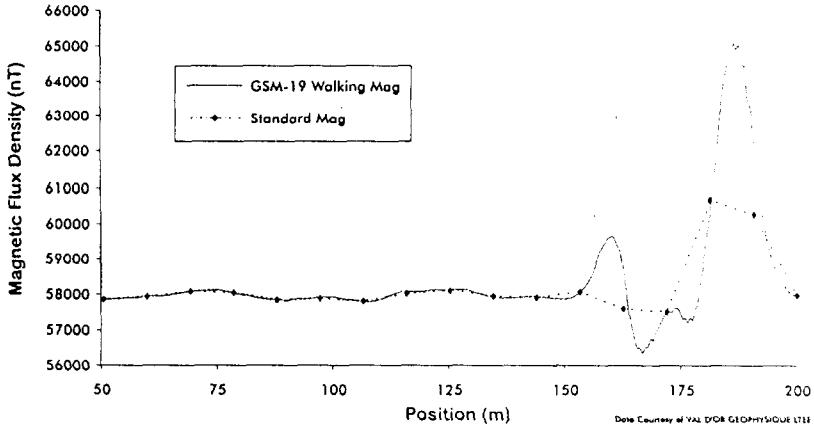
Resolution:	0.01 nT (gamma), magnetic field and gradient.
Accuracy:	0.2 nT over operating range.
Range:	20,000 to 120,000 nT.
Gradient Tolerance:	Over 10,000 nT/m
Operating interval:	3 seconds minimum, faster optional. Readings initiated from keyboard, external trigger, or carriage return via RS-232-C.
Input/Output:	6 pin weatherproof connector, RS-232C, and (optional) analog output.
Power Requirements:	12 V, 200 mA peak (during polarization), 30 mA standby. 300mA peak in gradiometer mode.
Power Source:	Internal 12 V, 2.6 Ah sealed lead-acid battery standard, others optional. An External 12V power source can also be used.
Battery Charger:	**Input:** 110 VAC, 60 Hz. Optional 110/220 VAC, 50/60 Hz. **Output:** dual level charging.
Operating Ranges:	Temperature: **-40 °C to +60 °C.** Battery Voltage: **10.0 V minimum to 15V maximum.** Humidity: **up to 90% relative, non condensing.**
Storage Temperature:	-50°C to +65°C
Display:	LCD: 240 x 64 pixels, or 8 x 30 characters. Built in heater for operation below -20°C
Dimensions:	**Console:** 223 x 69 x 240mm. **Sensor staff:** 4 x 450mm sections. **Sensor:** 170 x 71mm dia. **Weight:** Console 2.1kg, Staff 0.9kg, Sensors 1.1kg each.

"Walking" Magnetometer / Gradiometer

GEM Systems pioneered the GSM-19's innovative "Walking" option that enables acquisition of nearly continuous data on survey lines. Similar to an airborne survey in principle, data is recorded at discrete time intervals (up to 2 readings per second) as the instrument travels along the line. At each major survey picket (fiducial), the operator touches a designated key. The Walking Mag automatically assigns a linearly interpolated coordinate to all intervening readings.

A main benefit of the Walking option is that the high sample density improves definition of geologic structures. And because the operator can record data on a near-continuous basis, the Walking Mag increases survey efficiency and minimizes field expenditures -- especially for highly detailed ground-based surveys.

Near-Continuous Surveys Improve Definition of Magnetic Anomalies



As shown above, near-continuous measurements increase definition. Results from a GSM-19 "Walking Mag" (273 readings over 150 m with 2 sec. cycle time) were compared with results from a standard magnetometer (13 readings over 150m).

VLF-EM GEONICS

EM16 SPECIFICATIONS

MEASURED QUANTITY	Inphase and quad-phase components of vertical magnetic field as a percentage of horizontal primary field. (i.e. tangent of the tilt angle and ellipticity).
SENSITIVITY	Inphase: ±150% Quad-phase: ± 40%
RESOLUTION	±1%
OUTPUT	Nulling by audio tone. Inphase indication from mechanical inclinometer and quadphase from a graduated dial.
OPERATING FREQUENCY	15-25 kHz (15-30 kHz optional) VLF Radio Band. Station selection done by means of plug-in units.
OPERATOR CONTROLS	ON/OFF switch, battery test push button, station selector switch, audio volume control, quadrature dial, inclinometer.
POWER SUPPLY	6 disposable 'AA' cells.
DIMENSIONS	53 x 21.5 x 28 cm
WEIGHT	Instrument: 1.8 kg Shipping: 8.35 kg

CAUTION:

EM16 inclinometer may be damaged by exposure to temperatures below -30°c. Warranty does not cover inclinometers damaged by such exposure.

OROGRANDE RESOURCES

Property Examinations
Shining Tree and Old Red Projects

Introduction

At the request of Guillermo Salazar, president of Orogrande Resources, site examinations were undertaken of the Shining Tree and Old Red properties. Samples were obtained for analytical analysis, and a cursory examination in the field was done, as well, available data was reviewed. These site visits were undertaken on two separate occasions; November 10th-14th, 1997 and September 21st-24th, 1998.

Old Red Project

The Old Red project is located in the southwest quadrant of Leonard Township and is comprised of 14 claims totaling approximately 41 units. The project includes two separate showings, a) the Shear Zone showing located on claim 1186434: b) the Sliver-Cobalt showing located on claim 1200297.

Shear Zone Showing

This showing was initially sampled on November 12th, and samples 279079 to 279084 were collected from trenches and pits (see included sketch map) excavated over an area of 60 x 20 meters. The rocks have been intensely altered through a process of silicification and sericitization, making it difficult to determine the protolith, but in the immediate vicinity mafic flows were observed. No sulphides were noted, however, rusty weathering occurs within a 2-meter wide shear zone, possibly the result of the breakdown of iron carbonate. The samples did not return any anomalous precious or basemetal values. There appears to be a slight potassium enrichment, also manifest as intense sericitization, possibly indicating that a hydrothermal system may have been active.

In September of 1998, the Shear Zone showing was revisited and seven channel samples were cut from the vicinity of the most intense shearing (see sketch map). These samples did not return any significant results

Silver-Cobalt Showing

This showing is exposed in a stripped knob 65 meters long by 25 meters wide. The majority of the outcrop is Nipissing gabbro with a northeast trending, southerly dipping (60°) contact with Lorrain Formation conglomerate at the southeastern edge of the exposure. Three northeast trending trenches were blasted into the rock.

Trench "A"
This trench is approximately 8 meters long and was reported to have exposed a quartz-carbonate vein heavily mineralized with native silver. Grab sample 279072 was taken from the rubble pile (see included sketch), containing quartz-carbonate material with erythrite along a fracture plane. The sample yielded 1365ppm Co and no Ag.

Trench "B"
This trench is also trending northeast and is excavated over a 13-meter length. Four grab samples were collected from this trench, 279073-279076. Sample 279073 was quartz-carbonate vein material with erythrite along a fracture plane. It returned 945ppm Co. Sample 279074 was taken from the trench wall. It included heavily fractured gabbro, strongly mineralized with erythrite. It assayed 1820ppm Co. Sample 279075 was taken from the bottom of the trench. It consisted of quartz-carbonate vein material, heavily mineralized with erythrite, and ran 2130ppm Co. Sample 279076 was taken from the wall of the trench and was essentially composed of gabbro. As expected, no significant results were obtained from this sample.

Sample 279077 was taken from the trench that exposed the contact mentioned earlier. No mineralization was observed within the gabbro, and the hematized Lorrain conglomerate was sampled, no significant results were obtained.

Shining Tree Project

This property is also located in the southwest quadrant of Leonard Township and is comprised of four claims totaling 33 units.

The claims are shown (on OGS map 2359) to be underlain by Cobalt group, Lorrain Formation arkose which has been intruded by a north-south elongated lobe of Nipissing gabbro. The claims were staked on the basis of an elliptical shaped magnetic high centered on claim 1217773, located on the southeast shore of Shining Tree Lake. An "L" shaped trench approximately 30 meters long was excavated to bedrock and apparently revealed a gabbro mineralized with 5% po, within a north-south trending shear. The sides of the trench had slumped-in and the samples obtained were from the rubble pile at the southern edge of the trench. Grab samples 279085 and 279086 were collected from this pile. Sample 279085 was of a hematized gabbro containing trace sulphides. It was weakly anomalous in Cu, Pb and Zn, returning values of 100ppm, 720ppm and 830ppm respectively. Sample 279086 contained 5% po and assayed 50ppm Cu, 700ppm Pb, and 5900ppm Zn. Both samples are also high in Fe, possibly reflecting the presence of magnetite.

The geochemical results with the high Pb and Zn are not what one would expect in a gabbro. The presence of a north-south shear may explain the occurrence of Pb and Zn via an active hydrothermal system concomitant with shearing.

Of interest is, the gabbro lies 4000 meters east of a northwest trending linear of peridotite that is host to Cu and Au showings in the area. Currently, it is being explored by INCO west of Shining Tree Lake, known as the Fort Knox property.

RECOMMENDATIONS

Old Red Project

Silver-Cobalt Showing

It has been reported that native silver occurs in quartz-carbonate veins within the Nipissing gabbro. Mr. Lacarte has received assays of 30 oz/t Ag, after removing the native silver from the sample. However, as is typical with this style of mineralization, it tends to be high grade, erratic and of limited extent.

Nevertheless, it appears that a strong vein system exists. The area requires more stripping along strike of the veins, as well as, to the east and west to determine if subparallel veins occur. The exposed knob may then warrant the extraction of a bulk sample.

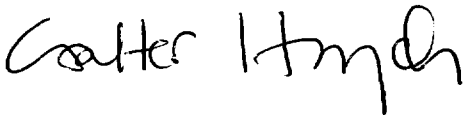
Shear Zone

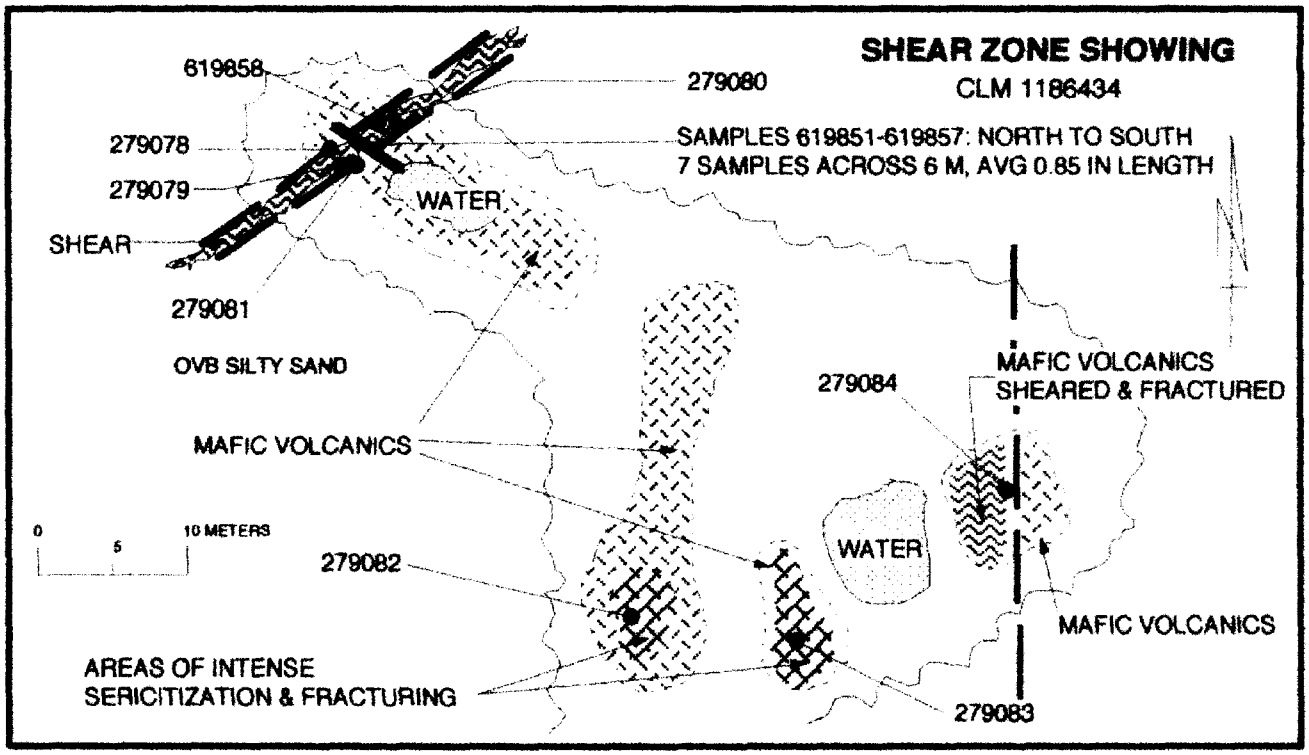
The area of the shear zone requires detailed mapping to correlate it with the recent geophysical results.

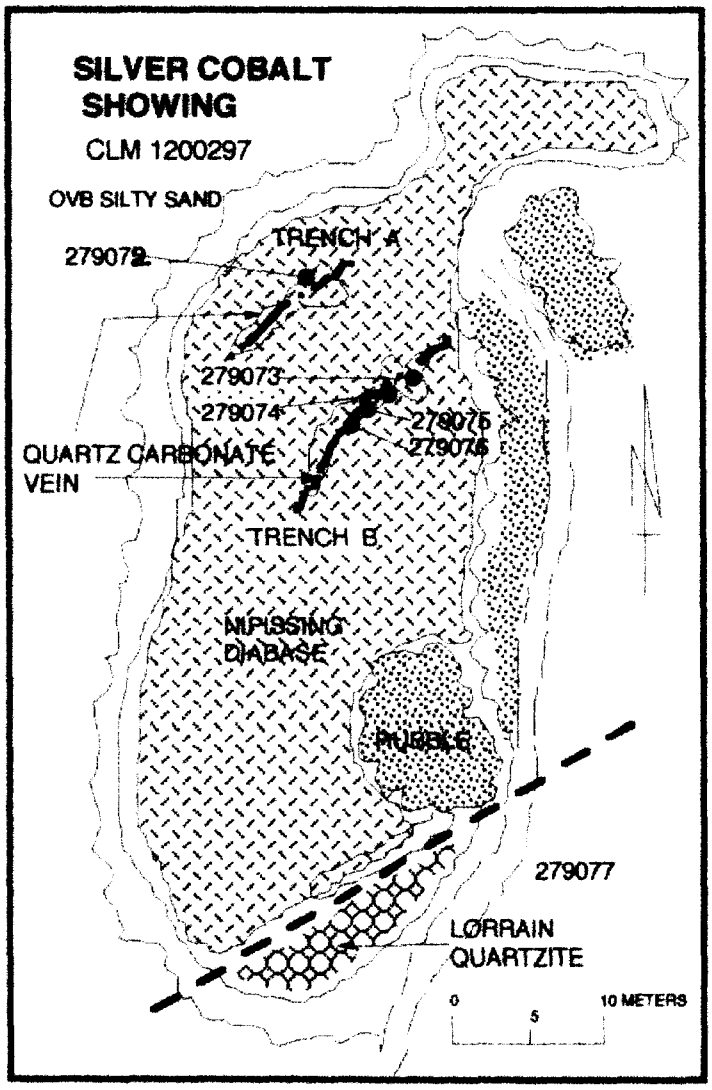
Shining Tree Project

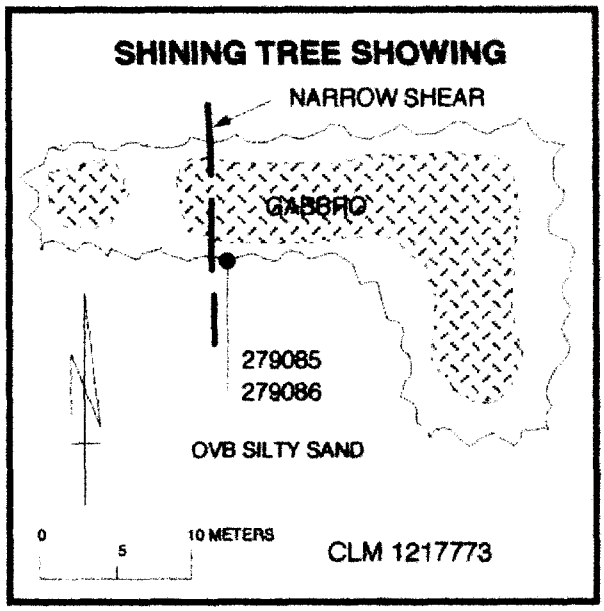
Mapping of the area is required, with a follow-up program of trenching and sampling to determine the extent of the mineralized shear within the gabbro.

November 8th, 1998
Walter Hanych







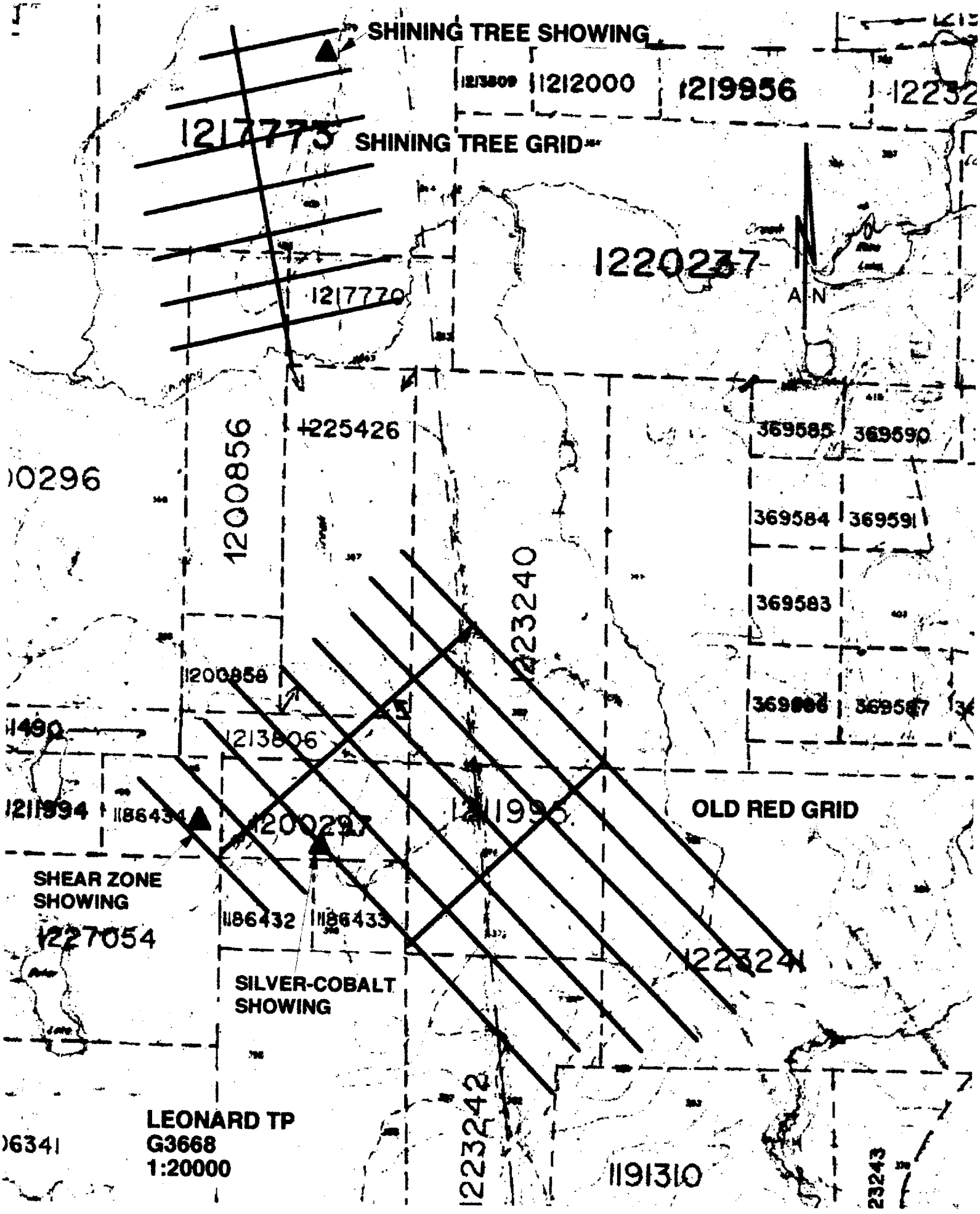


OROGRANDE RESOURCES

OLD RED - SHINING TREE PROJECTS

SCALE ALL DRAWINGS 1: 1000

WALTER HANYCH NOV, 98


SHINING TREE SHOWING
1212000
1219956
1217775
SHINING TREE GRID
1220237
1217770
N
A
1225426
1200856
369585
369590
0296
369584
369591
369583
1223240
1200858
1213806
1490
1211994
1186434
1200227
1211996
OLD RED GRID
SHEAR ZONE
SHOWING
1227054
1186432
1186433
SILVER-COBALT
SHOWING
1223241
LEONARD TP
G3668
1:20000
6341
1223242
1191310
2343

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: OROGRANDE RESOURCES INC.

925 - 1122 4TH ST. S.W.
CALGARY, AB
T2R 1M1

Project : HYDRO CREEK
Comments: ATTN: GUY SALAZAR CC: WALTER HANYCH

Page Number :1-A
Total Pages :1
Certificate Date: 23-(
Invoice No. :198
P.O. Number :
Account :NJV

CERTIFICATE OF ANALYSIS A9833582

SAMPLE	PREP CODE		Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Hg ppm	K %	Mg %
519851	205	226	4	< 5	< 2	< 1	0.50	40	40	< 5	< 10	0.38	< 5	< 5	50	20	0.14	< 10	0.38	0.03
519852	205	226	8	< 5	< 2	< 1	0.50	10	40	< 5	< 10	0.06	< 5	< 5	40	15	0.12	< 10	0.38	0.03
519853	205	226	2	< 5	< 2	< 1	0.55	< 10	40	< 5	< 10	0.08	< 5	< 5	60	20	0.22	< 10	0.40	0.04
519854	205	226	6	< 5	< 2	< 1	0.56	< 10	40	< 5	< 10	0.07	< 5	< 5	40	10	0.14	< 10	0.40	0.03
519855	205	226	18	< 5	< 2	< 1	0.62	< 10	60	< 5	< 10	0.10	< 5	< 5	50	10	0.17	< 10	0.43	0.04
519856	205	226	2	< 5	< 2	< 1	0.61	10	40	< 5	< 10	0.08	< 5	< 5	70	35	0.52	< 10	0.33	0.11
519857	205	226	2	< 5	< 2	< 1	0.53	10	40	< 5	< 10	0.06	< 5	< 5	60	15	0.31	< 10	0.37	0.05
519858	205	226	12	5	< 2	< 1	0.67	10	< 20	< 5	< 10	0.25	< 5	5	100	45	1.27	< 10	0.07	0.23

CERTIFICATION: Hans Fiehler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

5175 Timberlea Blvd., Mississauga
Ontario, Canada L4W 2S3
PHONE: 905-624-2806 FAX: 905-624-6163

To: OROGRANDE RESOURCES INC.

926 - 1122 4TH ST. S.W.
CALGARY, AB
T2R 1M1

Project : HYDRO CREEK
Comments: ATTN: GUY SALAZAR CC: WALTER HANYCH

Page Number : 1-B
Total Pages : 1
Certificate Date: 23-C
Invoice No. : 198
P.O. Number :
Account : NJV

CERTIFICATE OF ANALYSIS A9833582

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
519851	205	226	5	0.03	< 5	< 100	15	10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	5
519852	205	226	5	0.03	< 5	< 100	5	10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	< 5
519853	205	226	5	0.04	< 5	< 100	10	10	< 5	5	< 0.01	< 20	< 20	< 20	< 20	5
519854	205	226	5	0.04	< 5	< 100	< 5	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	< 5
519855	205	226	< 5	0.03	< 5	100	5	20	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	< 5
519856	205	226	5	0.04	10	< 100	5	10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	15
519857	205	226	10	0.03	< 5	< 100	5	10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	5
519858	205	226	5	0.10	25	400	< 5	20	< 5	5	< 0.01	< 20	< 20	< 20	< 20	5

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: OROGRANDE RESOURCES INC.

926 - 1122 4TH ST. S.W.
CALGARY, AB
T2R 1M1

Project :
Comments: ATTN: GILL SALAZAR

Page Number : 1-A
Total Pages : 1
Certificate Date: 27
Invoice No. : 19
P.O. Number : MK
Account : NJ

CERTIFICATE OF ANALYSIS A9751073

SAMPLE	PREP CODE	Au ppb AFS	Pt ppb AFS	Pd ppb AFS	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mg ppm	K %	Mg %
279072	205 226	< 2	< 5	< 2	< 1	0.67	2040	40	< 5	< 10	38.1	< 5	1365	60	20	1.12	< 10	< 0.01	0.35
279073	205 226	< 2	< 5	6	< 1	0.26	1400	20	< 5	150	13.85	< 5	945	140	45	0.49	< 10	0.01	0.13
279074	205 226	< 2	15	12	< 1	1.24	2620	< 20	< 5	< 10	6.45	< 5	1820	200	15	3.09	< 10	0.09	0.76
279075	205 226	< 2	5	8	< 1	0.45	3140	< 20	< 5	10	15.69	< 5	2130	130	15	0.57	< 10	0.07	0.18
279076	205 226	< 2	10	8	< 1	2.77	60	20	< 5	< 10	2.96	< 5	55	80	105	5.75	< 10	0.33	2.60
279077	205 226	< 2	< 5	< 2	< 1	0.40	60	20	< 5	< 10	0.49	< 5	50	190	20	0.52	< 10	0.25	0.05
279078	205 226	< 2	< 5	< 2	< 1	1.17	< 10	80	< 5	< 10	0.18	< 5	5	70	25	0.71	< 10	0.60	0.18
279079	205 226	< 2	< 5	< 2	< 1	0.98	< 10	60	< 5	< 10	0.24	< 5	< 5	120	10	0.36	< 10	0.59	0.05
279080	205 226	< 2	< 5	< 2	< 1	1.18	< 10	80	< 5	< 10	0.07	< 5	< 5	90	10	0.25	< 10	0.68	0.06
279081	205 226	< 2	< 5	< 2	< 1	1.44	10	120	< 5	< 10	0.81	< 5	5	110	25	0.69	< 10	0.78	0.16
279082	205 226	< 2	< 5	< 2	< 1	1.01	< 10	100	< 5	< 10	0.19	< 5	< 5	100	5	0.48	< 10	0.49	0.05
279083	205 226	< 2	< 5	< 2	< 1	1.20	20	60	< 5	< 10	0.07	< 5	< 5	110	< 5	0.71	< 10	0.60	0.15
279084	205 226	< 2	< 5	< 2	< 1	1.15	< 10	80	< 5	< 10	0.60	< 5	< 5	100	5	0.68	< 10	0.56	0.17
279085	205 226	< 2	< 5	< 2	< 1	3.25	< 10	30	< 5	< 10	0.75	< 5	45	30	100	11.00	< 10	0.12	3.61
279086	205 226	< 2	< 5	< 2	< 1	3.44	10	< 20	< 5	< 10	1.03	20	60	40	50	10.60	< 10	0.05	3.49

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: OROGRANDE RESOURCES INC.

926 - 1122 4TH ST. S.W.
CALGARY, AB
T2R 1M1

Project :
Comments: ATTN: GILL SALAZAR

Page Number :1-B
Total Pages :1
Certificate Date: 27-N
Invoice No. :197
P.O. Number :MCL
Account :NJW

CERTIFICATE OF ANALYSIS A9751073

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Fe
279072	205	226	5	0.06	205	< 100	35	< 10	25	45	0.03	< 20	< 20	100	< 20	20	
279073	205	226	5	0.12	215	100	140	< 10	15	30	0.08	< 20	< 20	100	< 20	20	
279074	205	226	< 5	0.23	300	200	75	< 10	20	20	0.08	< 20	< 20	260	< 20	25	
279075	205	226	15	0.17	320	300	15	< 10	20	30	0.06	< 20	< 20	120	< 20	20	
279076	205	226	< 5	0.21	70	300	80	< 10	15	25	0.23	< 20	< 20	180	< 20	170	
279077	205	226	< 5	0.13	25	< 100	10	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	5	
279078	205	226	5	0.11	15	< 100	< 5	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	10	
279079	205	226	< 5	0.04	< 5	< 100	20	< 10	< 5	5	< 0.01	< 20	< 20	< 20	< 20	5	
279080	205	226	< 5	0.06	5	< 100	< 5	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	< 5	
279081	205	226	< 5	0.05	20	100	< 5	< 10	< 5	5	< 0.01	< 20	< 20	< 20	< 20	5	
279082	205	226	< 5	0.20	< 5	< 100	< 5	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	5	
279083	205	226	< 5	0.11	< 5	< 100	< 5	< 10	< 5	< 5	< 0.01	< 20	< 20	< 20	< 20	5	
279084	205	226	< 5	0.13	5	< 100	< 5	< 10	< 5	5	< 0.01	< 20	< 20	< 20	< 20	20	
279085	205	226	< 5	0.09	30	700	720	< 10	15	5	0.64	< 20	< 20	360	< 20	830	
279086	205	226	< 5	0.08	25	1000	700	< 10	25	5	0.40	< 20	< 20	140	< 20	5900	

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)
W9880.00696
Assessment Files Research Imaging

41P11SE2010 2.18996 LEONARD 900

section 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, sment work and correspond with the mining land holder. Questions about this em Development and Mines, 3rd Floor, 933 Ramsey Lake Road, Sudbury,

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name OROGRANDE RESOURCES INC.	Client Number
Address SUITE 926, 1122 4TH ST. S.W. CALGARY, AB. T2R-1M1	Telephone Number 403-[illegible]233-2964
	Fax Number 403-264-0057.
Name	Client Number
Address	Telephone Number
	Fax Number

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

Geotechnical: prospecting, surveys, assays and work under section 18 (regs) | Physical: drilling stripping, trenching and associated assays | Rehabilitation

Work Type GRID CONSTRUCTION, MAG, ULF SURVEYS. GEO SAMPLING & MAPPING.		Office Use
		Commodity
		Total $ Value of Work Claimed 19,230
Dates Work Performed From [illegible] Day 22 Month 09 Year 1998 To Day 15 Month 10 Year 1998		NTS Reference
Global Positioning System Data (if available)	Township/Area LEONARD.	Mining Division KLK-Larder Lk
	M or G-Plan Number G 3668.	Resident Geologist District Kirkland Lake

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name DAVID LARONDE MEEGWICH INC.	Telephone Number 705-569-2904
Address P.O. BOX 482, TEMAGAMI, ON. P0H-2H0	Fax Number 705-569-2817
Name WALTER HANUCH	Telephone Number 705-445-6440
Address P.O. BOX 1088 COLLINGWOOD, ON L9Y-4E8.	Fax Number 705-445-6440.
Name	Telephone Number
Address	Fax Number

4. Certification by Recorded Holder or Agent

I, _____ (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent [signature]		Date Nov 6/98.
Agent's Address P.O. BOX 1088 COLLINGWOOD, ON.	Telephone Number 705-445-6440	Fax Number 705-445-6440.

0241 (03/97)

RECEIVED
NOV 12 1998
GEOSCIENCE ASSESSMENT OFFICE

Deemed Feb. 10/1999

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

W9880.00696

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of work to be distributed at a future date
eg	TB 7827	16 ha	$26,825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8,892	$ 4,000	0	$4,892
1	1217773	12	3,295	4,800	0	
2	1200856	4	924	1,600	0	
3	1217770	2	616	1,200	0	
4	1225426	5	918	0	918	
5	1223240	8	1326	3,200	0	
6	1213806	1	714	0	714	
7	1186434	1	3,673	0	3,643	30
8	1200297	2	2,154	0	2,154	
9	1186432	1	204	0	204	
10	1186433	1	306	0	306	
11	1211995	4	2448	0	2,448	
12	1223241	13	1734	4,800	0	
13	1223242	6	918	2,400	0	
14	1200858	1	0	400	0	
15	1223243	2	0	800	0	
	Column Totals		$19,230	19,800	10,387	30

I, WALTER HANYCH (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
W Hanych	NOV. 6/98

6. Instruction for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (03/97)

RECEIVED
NOV 12 1998
GEOSCIENCE ASSESSMENT OFFICE

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9880.00696

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work *Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.*	Cost Per Unit of work	Total Cost
LINECUTTING	29.2 KILOMETERS.	$285/km	$8312
MAGNETOMETER SURVEY	29.2 KM.	$96/KM	2,824
VLF-EM SURVEY	29.2 KM	$84/km	2,445
REPORT WRITING	4 DAYS	254/DAY	1,015
MAPPING & SAMPLING	2 DAYS	321/DAY	642
GEOLOGICAL SUPERVISION	2 DAYS	321/DAY	642
GEO REPORT	1 DAY	321/DAY	321
Associated Costs (e.g. supplies, mobilization and demobilization).			
ROCK SAW RENTAL		$49/DAY	$96
ANALYSIS 15 SAMPLES FA/AA + ICP		$29/SAMPLE	$435
7 SAMPLES FA/AA.		$18/SAMPLE	$126
TRAVEL 4 DAYS.		$321/DAY	$1284
Transportation Costs			
TRUCK 8 DAYS.		64/DAY	$512.
FUEL		$34/DAY	$268
Food and Lodging Costs		$51/DAY	$308.
		Total Value of Assessment Work	$9230

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, WALTER HANUCH. (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as ~~recorded holder~~ AGENT. (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

RECEIVED
NOV 12 1998
GEOSCIENCE ASSESSMENT OFFICE

Signature	Date
	NOV. 9/98.

0212 (02/96)

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

February 12, 1999

OROGRANDE RESOURCES INC.
Suite 926
1122 4th St S.W.
CALGARY, ALBERTA
T2R-1M1

Dear Sir or Madam:

Submission Number: 2.18996

Subject: Transaction Number(s):		**Status**
	W9880.00696	Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at steve.beneteau@ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 13383

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18996

Date Correspondence Sent: February 12, 1999 **Assessor:** Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9880.00696	1217773	LEONARD	Deemed Approval	February 10, 1999

Section:
14 Geophysical MAG
14 Geophysical VLF
12 Geological GEOL

Correspondence to:
Resident Geologist
Kirkland Lake, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):
OROGRANDE RESOURCES INC.
CALGARY, ALBERTA

ARCHIE ALBANY LACARTE
GOWGANDA, Ontario

ERICH JOSEF KNIES
GOWGANDA, ONTARIO

WALTER HANYCH
COLLINGWOOD, ONTARIO

Correspondence ID: 13383

Ministry of Natural Resources
Ontario

Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
G – 3668

TOWNSHIP
LEONARD

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE

MINING DIVISION
LARDER LAKE

LAND TITLES/REGISTRY DIVISION
TIMISKAMING

Scale 1:20 000

Contour Interval 10 Metres

AREAS WITHDRAWN FROM DISPOSITION
MRO – Mining Rights Only
SRO – Surface Rights Only
M+S – Mining and Surface Rights

SYMBOLS

DISPOSITION OF CROWN LANDS

DATE OF ISSUE
APR 01 1999
PROVINCIAL RECORDING OFFICE - SUDBURY

ARCHIVED SEPT. 19, 1996
CIRCULATED AUGUST 19, 1996

DISTRICT OF SUDBURY
DISTRICT OF TIMISKAMING

TYRRELL TOWNSHIP

FAWCETT TOWNSHIP

LEITH TOWNSHIP

NORTH WILLIAMS TOWNSHIP

1187019 1171400 1171401 1198305 1198306 1222504 1227316 1227310 1222528 1227309 1222524 1219471 1222526 1222030 1187020 1235412 1227306 1219903 1219475 1222503 1219904 1197531 1219952 1225638 1225637 1222506 1222522 1219906 1219954 1219951 1217587 1219473 1219474 1217584 1222504 1219957 1219955 1220201 1219956 1223262 1217544 1217773 1217586 1217585 1225219 1220237 1223262 1217770 1225426 1200296 1200856 1223240 1219929 1219917 1219918 1219915 1219907 369585 369590 369589 369584 369591 369583 369586 369587 369588 1200858 1211490 1213806 1211994 1186434 1200297 1211995 1206340 1227054 186432 186433 2.18996 MAG VLF GEOL. 1223241 1206341 1223242 1191310 1223243 1226515

(Astronomic)

OroGrande Resources Inc. Old Red Property		
Leonard Township		
Ground Geophysical Surveys Total Field Magnetics Contours		
Data processing and interpretation by: *Meegwich Consultants Inc.*	Scale: 1:5000 October 1998	NTS 41 P/11

In-Phase
Quadrature

Conductor Axis, Moderate to Strong
Conductor Axis, Interpreted or Weak

Claim post, located
Claim post, assumed
Line post, located
Outcrop

Scale 1:5000
100 0 100 200 300
(meters)

Instruments: GEM Systems GSM-19 Magnetometer Serial #58479
Geonics EM-16 VLF Receiver Serial #10585

VLF Station: NAA 24.0 kHz Cutler Maine

57000 subtracted from all readings

OroGrande Resources Inc.
Old Red Property
Leonard Township
Ground Geophysical Surveys
VLF - EM Survey
Profiles of the In-Phase and Quadrature

Data processing and interpretation by:	Scale: 1:5000	NTS 41 P/11
Meegwich Consultants Inc.	October 1998	

(Astronomic)

In-Phase
Quadrature

Profile Scale: 1 cm = 10%

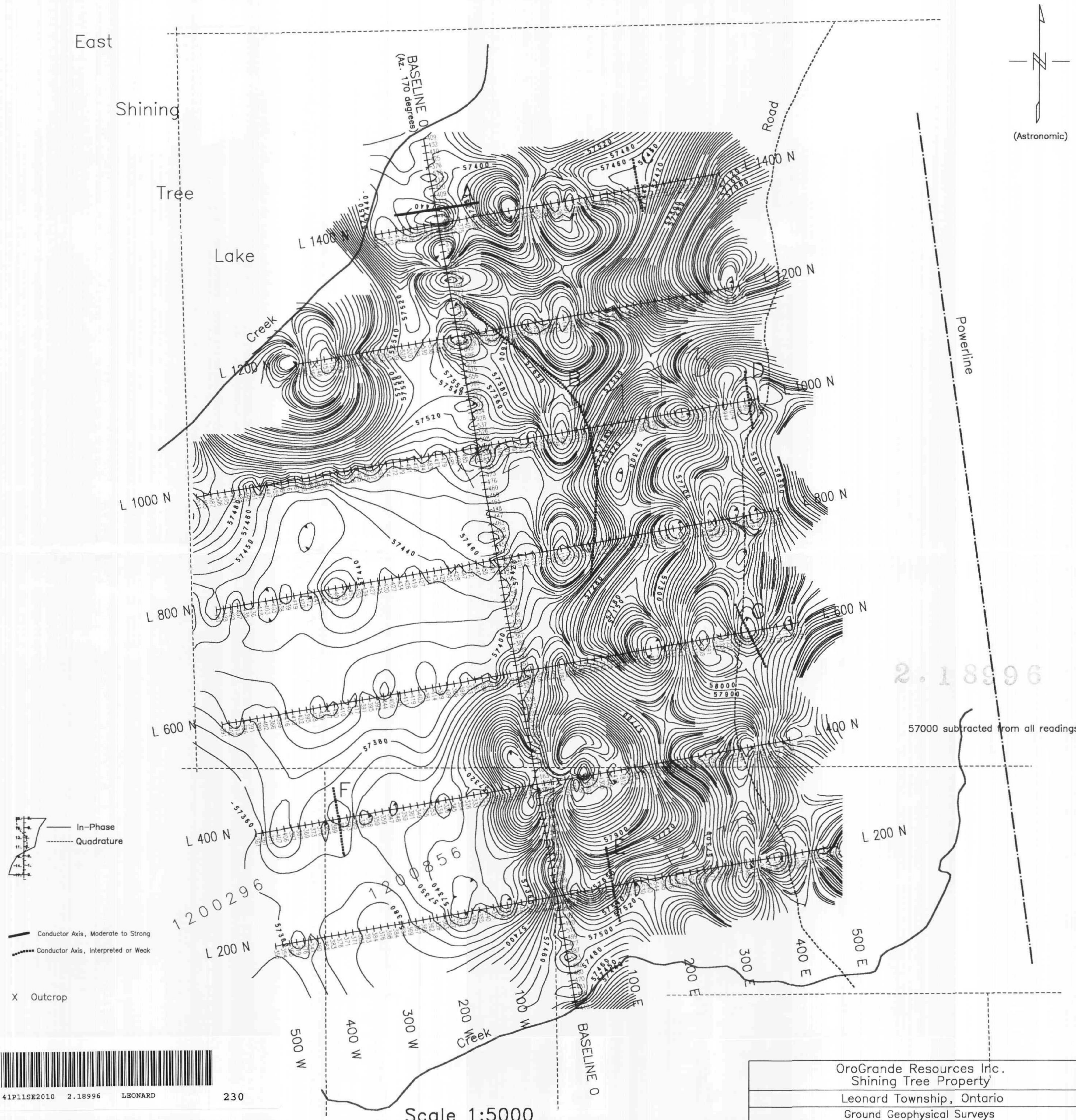
Conductor Axis, Moderate to Strong
Conductor Axis, Interpreted or Weak

Claim post, located
Claim post, assumed
Line post, located
Outcrop

Scale 1:5000
100 0 100 200 300
(meters)

Instruments: GEM Systems GSM-19 Magnetometer Serial #58479
Geonics EM-16 VLF Receiver Serial #10585

VLF Station: NAA 24.0 kHz Cutler Maine



In-Phase
Quadrature

Conductor Axis, Moderate to Strong
Conductor Axis, Interpreted or Weak

X Outcrop

Instruments: GEM Systems GSM-19 Magnetometer Serial #58479
Geonics EM-16 VLF Receiver Serial #10585

VLF Station: NAA 24.0 kHz Cutler Maine

Scale 1:5000

50 0 50 100 150 200 250 300
(meters)

OroGrande Resources Inc.
Shining Tree Property

Leonard Township, Ontario

Ground Geophysical Surveys
Total Field Magnetics
Contours

Data processing and interpretation by:	Scale 1:5000	NTS 41 P/11
Meegwich Consultants Inc.	October 1998	

East

Shining

Tree

Lake

Creek

BASELINE 0
(Az. 170 degrees)

Road

Powerline

(Astronomic)

L 1400 N

L 1200 N

L 1000 N

L 800 N

L 600 N

L 400 N

L 200 N

A

B

C

D

E

F

G

1 2 3

1 2 7 7 7 0

1200856

1200296

100 W

200 W

300 W

400 W

500 W

100 E

200 E

300 E

400 E

500 E

In-Phase

Quadrature

Profile Scale: 1 cm = 10%

Conductor Axis, Moderate to Strong

Conductor Axis, Interpreted or Weak

X Outcrop

41P11SE2010 2.18996 LEONARD 240

Instruments: GEM Systems GSM-19 Magnetometer Serial #58479
Geonics EM-16 VLF Receiver Serial #10585

VLF Station: NAA 24.0 kHz Cutler Maine

Scale 1:5000

50 0 50 100 150 200 250 300

(meters)

OroGrande Resources Inc.
Shining Tree Property

Leonard Township, Ontario

Ground Geophysical Surveys
VLF - EM Survey
Profiles of the In-Phase and Quadrature

Data processing and interpretation by:	Scale 1:5000	NTS 41 P/11
Meegwich Consultants Inc.	October 1998	