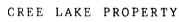
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1984

EXPLORATION

CREE LAKE PROPERTY EXPLORATION SUMMARY REPORT QUINTERRA RESOURCES INC. JANUARY 1985. .

INTRODUCTION.

Reconnaissance geological mapping and prospecting was carried out on the Cree Lake Property of Quinterra Resources during September and October, 1984.

Approximately 10 miles of line cutting (Base line, north and south tie lines and brushing out the old Sultan Road) was used together with air photographs for control. Mapping was done by L. Hallé and B. Raine and was at a scale of 1"=½ mile over the property. Specific mineralized areas were partially stripped, chip sampled for assay and cobra drilled. The total property was flown by Terraquest and mag and V.L.F. surveys done.

PROPERTY LOCATION AND ACCESS.

The Cree Lake property consists of 100 contiguous mining claims in Swayze and Cunningham Townships in the district of Sudbury, Procupine Mining Division of northeastern Ontario $(47^{\circ}-46'N \ latitude; \ 82^{\circ}-40'W \ longitude)$, approximately 140 km southwest of Timmins, Ontario.

The property can be accessed via a bush road south approximately 50 km from provincial highway 101 to the Kenty property in northeastern Swayze township. From here the old Sultan Road has been bulldozed and brushed out southward a distance of 4.5 km giving access to the claims. Float equipped aircraft can land on Cree Lake providing easy access to the area.

SWAYZE TOWNSHIP (88 claims)

P740046 - P740050	inclusive	5
P740054 - P740063	inclusive	10
P740068 - P740077	inclusive	10
P740080 - P740095	inclusive	16
P740097 - P740100	inclusive	4
P779956 - P779990	inclusive	35
P799001 - P799004	inclusive	4
P799006 - P799009	inclusive	4

CUNNINGHAM TOWNSHIP (12 claims)

P740051 - P740053	inclusive	3
P740064 - P740667	inclusive	4
P740078 & P740079	inclusive	2
P799010 - P799012	inclusive	3

EXPLORATION HISTORY.

Interest in the Swayze region was originally due to the discovery of iron formation shortly after 1900. In the late 1920's exploration was carried out for base metals in Cunningham township. Exploration in the 1930's and early 1940's was directed to gold, with the development of the Jerome Gold mine 30 km to the east and the Kenty Mine 50 km to the north.

From old trenches found on the Cree Lake property it is probable that this property was at one time prospected for gold, (1930's?). At the Kenty property in northeastern Swayze township, 2 shafts were sunk with development on 3 levels. Mineralization is gold in quartz veins and it is reported that 359,000 tons of ore were outlined. (Gordon, 1979).

Flint Rock Mines Limited in 1961-1963 re-activated the Buffalo Canadian Gold Mines Limited property at the northeast end of Cree Lake. The original work was done in 1933-1934 and in 1961-1963 the old trenches were cleaned out and re-sampled. Here gold mineralization occurs as a stockwork of quartz-carbonate veins from 15 cm to 60 cm wide containing minor sulphide mineralization. The 1963 drilling intersected values up to 20.7 oz gold per ton across widths up to 45cm. (Gordon, 1979).

The Cree Lake property was covered by various airborne surveys flown during the 1960's and 1970's in the search for base metals but there is no evidence of any concentrated exploration effort having taken place in the area of the property prior to the acquisition of the ground by Quinterra Resources Inc. in 1982.

EXPLORATION HISTORY (cont'd).

Quinterra Resources flew the property with a combined magnetic and VLF survey in October of 1984 and at the same time the property was geologically mapped on a reconnaissance basis.

The area was geologically mapped by Furse (1932), Rickaby (1934), Meen (1942) and more recently by Donovan (1965) and Siragusa (1980) of the Ontario Department of Mines. The area was covered by an airborne INPUT electromagnetic survey and a magnetometer survey carried out by the Ontario Ministry of Natural Resources in late 1980 and early 1981.

REGIONAL GEOLOGY.

The Cree Lake property is located in the south central part of the Swayze greenstone belt which extends from Kukatush, southwest of Timmins, southwest to Tooms township with a southern arm extending east and east-southeast to Gogama. All the bedrock formations in the area are of Early Precambrian-Archean age. Through the southern part of the belt the formations face north, being the southern limb of a major synclinorium outlined by the greenstone belt with the nose of the fold to the west in Halcrow township. Rocks of granitoid composition surround the greenstone belt.

The dominant rock types include metamophosed komatiitic flows, their intrusive equivalents and pillowed to massive mafic flows. Locally, thin layers of intermediate to acidic tuffs are interbedded with the flows. All units have been metamorphosed to greenschist rank.

REGIONAL GEOLOGY (Cont'd):

Cycles of clastic and chemical sedimentation occured during the development of the volcanic pile and resulted in the deposition of exhalative units and lean pyritic and magnetitic chert iron formation. Spatially, associated with the main chert units are relatively small bodies of feldspar porphyry which may be sub-volcanic felsic intrusives.

Metasediments which appear to be more extensive in the eastern and western parts of the belt, consist of polymictic conglomerate, and minor arkosic sandstone and slate.

Mafic intrusives (mainly gabbro) occur in the central part of the belt associated with the mafic metavolcanics. Some small plutons of granitoid composition intrude the greenstones and lamprophyre dikes have also been mapped.

The metamorphic foliation in the area trends westnorthwest to east-west and dips vertically to sub-vertically. The most apparent direction of faulting is north-northwest as indicated by observed offsets, displacement of units and airphoto lineaments. Some east-northeast and east-west zones of shearing are also reported.

During the Pleistocene epoch the area was covered with a thin layer of glacial till which in turn was covered, in much of the area, by extensive glacio-lacustrine deposits as the glaciers retreated.

PROPERTY GEOLOGY.

The Cree Lake property is underlain by an east-west striking and steeply dipping sequence of Archean metavolcanics and associated chemical sediments. The property is extensively covered by a thin layer of overburden.

An antiformal fold axis is postulated along the Swayze-Cunninghma township boundary, so that the property mainly covers the northern limb of this structure. Reconnaissance geological work has indicated that the main rock types present on the property are mafic to intermediate metavolcanic flows and fragmentals which are generally fine grained chloritized and show an east-west foliation. Pillow lavas which are locally present indicate the formations face north. In the northwest corner of the claims along the south shore of Cree Lake thinly laminated mafic tuffs are exposed. Similar rocks are exposed along the Swayze-Cunningham township line in the south-central part of the property and in the western end of the most southerly band of felsic tuffs.

Three felsic metavolcanic horizons have been mapped in the central part of the claim group. The northern and southern units are considered to be felsic tuffs while the middle unit may be a felsic flow.

A sulphide-rich iron formation horizon occurs associated with the middle felsic unit and 2.5 km to the west a trench has exposed an iron formation in intermediate metavolcanics which may be correlative with the horizon to the east. Associated with the southern felsic tuff unit is a second sulphide-rich

PROPERTY GEOLOGY (Cont'd):

iron formation member which has been traced for approximately
1 km along strike.

Mafic sill-like intrusives which are gabbroic to dioritic in composition occur throughout the central part of the property. A small stock grading from gabbro to syenite in composition occurs in the south-central section of the claims.

A major east-west fault, the Cree Lake Fault passes through Cree Lake and across the northern part of the property. North-northwest faulting at the east end of the claim group appears to offset all units and structures. The dominant foliation trends east-west and is vertical to sub-vertical and is approximately parallel to the axial plane of the interpreted antiform in the southern part of the property.

Associated with the southern felsic tuff and iron formation is a zone of green carbonate alteration which lies north of the iron formation and appears to affect mafic, intermediate and felsic metavolcanics.

Gold mineralization is associated with the stratigraphic interval containing the southern felsic tuff and sulphide-rich iron formation unit. Within this zone the gold is associated with two units; a sulphide facies iron formation and a silicified quartz, sericite schist. The sulphide facies iron formation consists of quartz-rich and pyrite-rich layers containing considerable carbonate. Small quartz-carbonate stringers are present and probably represent recrystallized

PROPERTY GEOLOGY (Cont'd):

chert or quartz. The quartz-sericite schist which lies north of the iron formation member, is well foliated, silicified, mineralized with pyrite and is interpreted to be a felsic tuff. These units are contained within the broad zone of green carbonate alteration. The reconnaissance geological work has traced this favourable zone for 2500 m and the airborne geophysics suggests a potential strike length of 4500 m for the unit.

GEOPHYSICS.

The Swayze area was flown by Questor Surveys Limited for the Ontario Geological Survey in late 1980 and early 1981 (OGS, 1982). This survey produced a band of airborne EM anomalies parallel to the volcanic stratigraphy stretching across the Cree Lake property. A number of anomalies are 4 to 6 channel anomalies and are considered to represent conductive chemical sediment zones within the volcanic pile.

Terraquest Limited carried out a combined airborne magnetic and VLF-EM survey over the Cree Lake property in late October 1984 along north-south flight lines 100 m apart. These surveys indicated a number of magnetic zones within the volcanic pile and some correspond to known iron formation horizons. The cause of others is probably intrusive gabbro sills. A number of VLF conductors were identified, generally within the same zone as outlined by the Questor INPUT survey. One VLF conductor through Cree Lake probably corresponds to the Cree Lake fault. The interpretation from the airborne surveys recognized a number of north-northwest trending faults and diabase dikes.

ECONOMIC POTENTIAL.

The Cree Lake property has many of the features associated with known gold environments. This environment is dominated by mafic to intermediate metavolcanics, interflow, felsic metavolcanic units (present at 3 stratigraphic intervals) and sulphide-rich exhalite bodies. As well a broad zone of possible exhalite units is indicated by the airborne geophysical surveys. Sediments of the Ridout Group occur to the south in northern Cunningham township as part of an 80 km long belt of clastic sediments. The Cree Lake fault is a major zone of eastwest deformation.

During the reconnaissance geological survey carried out by Quinterra Resources Inc on the Cree Lake property in the fall of 1984, a number of samples were collected for analysis. In the central part of the property a chip sample across the sulphide facies iron formation was taken and this yielded an assay of 0.878 oz gold per ton. A second sample taken 75 m to the east assayed 0.503 oz gold per ton. Two samples taken from the pyritic, quartz sericite schist to the north assayed 0.137 and 0.027 oz gold per ton. Other samples collected from this horizon assayed up to 195 ppb gold. Approximately 400 m to the north a sample of a felsic metavolcanic gave 333 ppb gold.

The Cree Lake property contains a very favourable geological environment for economically significant gold mineralization. Preliminary work has identified a zone of felsic metavolcanics, sulphide-rich iron formation, carbonate alteration and gold mineralization across the central part of the property

ECONOMIC POTENTIAL (cont'd):

with a potential strike length of 4500m. Anomalous gold values to the north of this horizon and coincident with the broad zone of INPUT anomalies suggest a second important stratigraphic interval to be evaluated for gold mineralization.

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REPORT ON THE CREE LAKE PROPERTY

OCTOBER 1984.

1. Introduction.

During the period of the 25th to the 28th of October, prospecting work on the Cree Lake was carried out by L. Hallé and Bruce Raine. It was planned that some trenching and sampling should be done around a showing situated on line 0+00, 7+00S. This showing was reported in one previous sample to have a value of 0.878 ounces of gold per ton. It was also planned that more geological information should be added to the previous map made earlier this year, during a reconnaissance survey.

Following this work, we are now able to say that the showing on line 0+00, 7+00S consisted of several boulders, probably blasted, by previous workers during the 1930's. The bedrock was not located close to this boulder.

The work also located another outcrop where the iron formation is exposed. On this outcrop, the iron formation appears to be more rich in sulphides than the previous outcrop found on the road.

Work done.
 B. Raine work.

B. Raine drilled two outcrops for blasting. The location of these outcrops are shown on the L. Hallé map at the end of this report.

No blasting was done because the plane which was supposed to bring the caps couldn't fly due to bad weather conditions. The rest of his work consisted of prospecting and digging around the "gold" boulder pit. One of the trenches possibly hit the bedrock. 2.2 L. Hallé work.

The major part of the work done by L. Hallé consisted of prospecting for the origin of the boulder found in the pit. One day was also spent mapping at 1"=20' the outcrops surrounding the pit and the iron formation.

> A total of 17 samples were collected as follows: Old pit on line 00+00S

- 6 samples from pit for Au ppb (051453-58)
- 1 sample from a boulder 50' south of the pit for Au ppb (051459)
- 1 sample from a boulder 30' south of the pit for Au ppb (051460)

Boulder on the road

- 1 sample for Au ppb (051461)

Others:

 7 samples of surrounding rock for Au ppb (051462-69)

Location shown on the map.

2.3 Resume of work.

	Prospecting.	Drilling.	Mapping.
B. RAine	1.0 days	1.5 days	0.0 days.
L. Hallé	1.5 days	0 days	1.0 days.

3. Conclusion and Recommendations.

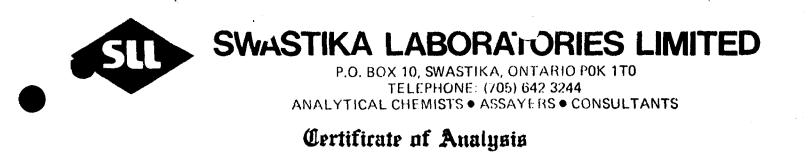
The work done during this period did not locate the bedrock in the pitarem nor the source of the boulder laying in the pit. The blasting done by previous trenching probably during the 1930's changed the size and the shape of these boulders and made it difficult to locate the source. However, it is suspected that these boulders came from the iron formation located about 300 to 500 feet north, although the rock there appears to be more cherty than the boulder. It's also possible that these boulders are part of a cross cutting quartz veins system in the iron formation. These two hypothesis are based on the occurence of iron formation boulders, the "gold" boulder and of some occurences of small cross cutting quartz veins in the iron formation.

Our recommendation for further work are:

- 1- Strip the area of shallow overburden in the iron formation area.
- 2- Dig the pit where the "gold" boulder was found to see the bedrock.
- 3- Trench and sample the iron formation and the surrounding outcrops.
- 4- Do some more prospecting work to find more mineralized boulders.

Laurent Hallé Geologist

Bruce Raine Assistnat geologist.



Certificate No. 57650	Date: May 16, 1984		
Received <u>May 11, 1984</u> 2	Samples of	ore	
Submitted byQuinterra Resources Incorp	orated, Nort	th Bay, Ontario <u>Att: R. Lashbr</u> ook	

SAMPLE NO.	GOLD PPB	COPPER PPM
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4002	520	cree Lake.

G. Lebel, Manager

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BELL - V V HITE	ANALYTICAL LABOR	ATORIES LTD.
P.O. BOX 187.	HAILEYBURY. ONTARIO	TEL: 672-3107

Certificate of Analysis

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NO. B1	1	2	6	-	8	4	
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DATE: October 5, 1984

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SAMPLE(S) OF: Rock (40)

RECEIVED: October, 1984

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SAMPLE(S) FROM: Mr. Ray Lashbrook Quinterra Resources Inc.

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	G051101	45				
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	6	4			7 149	
	7	3			8 22	

** Checked

I ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

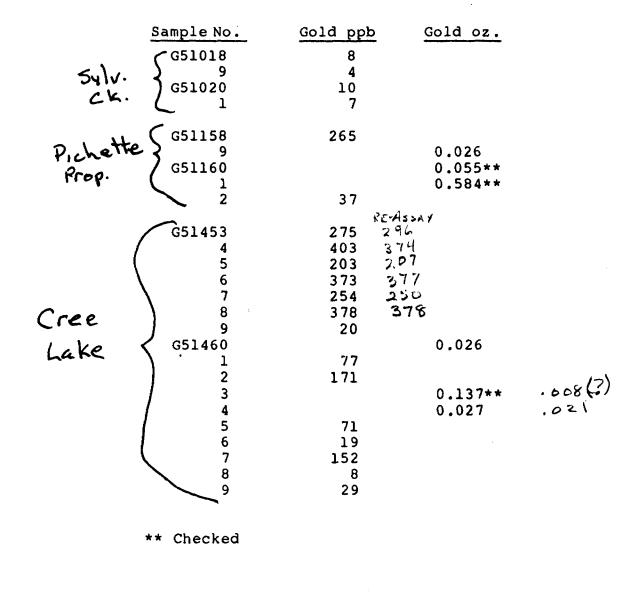
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BELL - WHITE	ANALYTICAL	LABORATO	RIES LTD.
P.O. BOX 187,	HAILEYBURY, ONT	TARIO TEL	: 672-3107

# Certificate of Analysis

NO. B1309-84	DATE: Nov	vember 9, 1984
SAMPLE(S) OF: Rock (26)	RECEIVED:	November, 1984
SAMPLE(S) FROM: Mr. Ray Lashbrook Quinterra Resources Inc.		



N ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTON, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

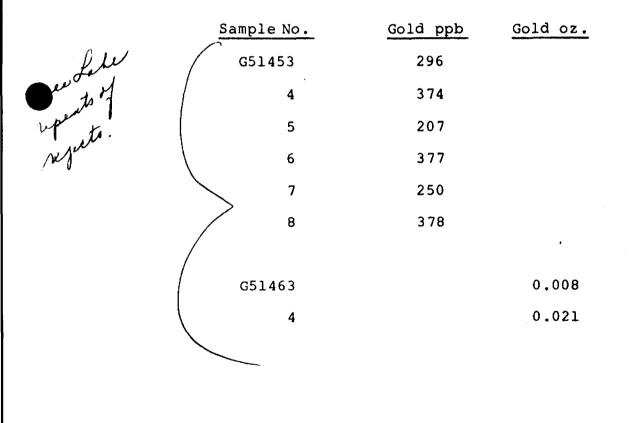
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	ANALYTICAL	LABORATORIE	S LTD.
P.O. BOX 187,	HAILEYBURY, ONT	ARIO TEL: 6	72-3107
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# Certificate of Analysis

NO. B1336-84	DATE: November 16, 1984
SAMPLE(S) OF: Rock "Repeats" (8)	RECEIVED: November, 1984
SAMPLE(S) FROM: Mr. Ray Lashbrook Quinterra Resources Inc	



N.B.: No Charge for the above assays



ACCORDANCE WITH LONG-ESTABLISHED NORTH HERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

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# REPORT ON AN AIRBORNE MAGNETIC AND VLF-EM SURVEY SWAYZE AND CUNNINGHAM TOWNSHIPS PORCUPINE MINING DIVISION, ONTARIO

for

# QUINTERRA RESOURCES INCORPORATED

TERRAQUEST LTD. Toronto,

February 6, 1985

by



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0300

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- 407.1-2 Vertical Magnetic Gradient
- 407.1-3 VLF Contours and Profiles
- 407.1-4 Interpretation

## 1. INTRODUCTION

A combined airborne magnetic and VLF-EM survey was carried out on a block of 100 claims located in Swayze and Cunningham Townships, in the Porcupine Mining Division, Ontario. The claim holder is Quinterra Resources Inc., 321 Algonquin Avenue, North Bay, Ontario. The work was carried out by Terraquest Ltd., 111 Richmond Street West, Toronto, during the period October 20, 1984 to February 6, 1985.

The survey area was covered by a grid of parallel flight lines spaced 100 metres apart and aligned north-south.

The purpose of the survey was to assist in mapping geology, and to explore for shear zones, faults, and other structures potentially favourable to gold or base metal mineralization.

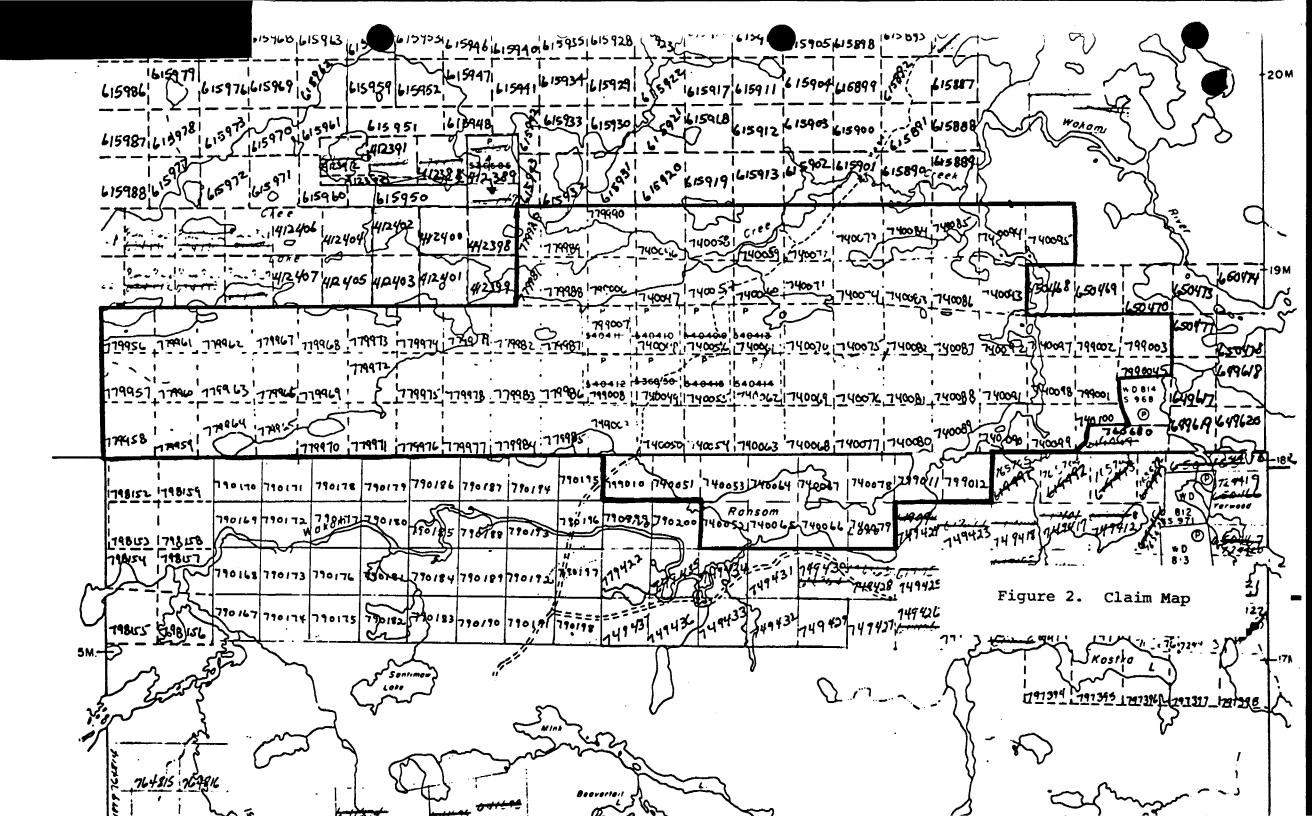
#### 2. THE PROPERTY

The property is composed of 100 contiguous claims lying in Swayze and Cunningham Townships, Porcupine Mining Division, Ontario. Cree Lake lies on the western part of the north boundary of the property. Ground access is by winter trail from the village of Sultan, 19 km to the south which, itself is on the CPR Railway and Highway 667. The town of Chapleau lies 55 km to the west and Gogama is 70 km to the east. An all-weather road, originating from Sultan, comes to within 8 km of the eastern edge of the property at Garnet Lake.

Latitude and longitude are  $47^{\circ}46'$  and  $82^{\circ}40'$  respectively and the NTS reference is 41 0/15.

A list of claim numbers is given in Appendix B.

Anert Fergus Esclasione Cargill Stanson Narson Shickland Haggar Farguna Scholleld d Haig frag North Rocre Palletier Donerty Labout Organica Bourinot \$,200 TLascer'es wg Stacies Casselman Maricar/Carmicnael COCHRA Starly 1 سيندا Second Parton TOT COME IN 064 Eord Lacian Math Saca | Stream Maile Manipura Bina Cramboh Usea Oscar Concober Beato: Die Rintene 35 Kabinakagami Erieson Allenoy . Rassien Maude Sea: in. HIC48 ور فرجی  $\sim \tilde{}$ ~ } Heijon In the second 1 Lagar Clouston Watson Pount Mene Buchan 15 2 ginad Champiain /HOOK Martin Mildred Came/ She Caderre Statansas Belford Montcaim Na teworth ~··•O Cuonay 11 Zaterbal Netatis 2 Makana ငဘဲ Moorenaus -Elui Lougnees Disin ( Mai 13 ANOIS SUBCREN Knast ( Linator ----uma Kildare winget Amar Abige GIM snot us carps B: I Seprioca Metroya Frer Santar Capital Missing bi Oswala 18 Lioyd AI. Folder Musicate ( 3) Sec. 1 Bruns Lipsett Co Ocoerneid Lincoln Langue Lang Abben is fan oud say Req.48 Bird ଜ warren Cart Collishen L d Chaplin Annung Boranne Sector Alcom Conine Murda Franes Bandy Helper | 8 306 W Hill M DAL Gerd Samey Crockett Neveru Constat Ne Jenses Panis مثر Zo IN L Sauce: Dore Rev Susma Tabo-] Con \$1ā. ja. Sι 1 Barager Barnes Cull Delarey Dupuis Nimitz se Gauit Beaugen Beaudrer Beau Berman abe teartaBlachturn Barse ese Earth Bulles Jenners Corboy Level Ening Ensure Tilling Conto Breen Jethice Kalen Rearing Stram Gana Kosny Mcodette Hutcheon Langes Kalsey \$ Grooteni 19 Doer , Grzela Hasley Hales Mean Wasan McAusres Steparter arson's Le Biscoulin The survey Cassidy Dears Dres Dutarta Eston Esigna Capton Carruthers Tronsen Viber Way Was Wildey Brace Byter of Enen Ferrier & Gaurt 6 Sinter Smithy File Giad ain Ivy Specha Metagama Battersa Lessones Lane Laughten Lewish Leine Michae LEIGTA GADA Gauary colet Borbers Olsen Oanes Conce Matine Pine Malisen Maker Marca Marter nastar Nuttail Par Negn Ne Westard LANG Aoline Asci mayer & 8178 and and Tusper ugnes Jordinate Snow Sniel Ter Hannar # Rious Sinces Slevert There Tesedia avance te MONT CUTIS MARDUTE ALTOPATES County Co Dagie Wago Sayer Literon Poulin (Segers Tas Janus Anserson Chester Gilimer Kane den Rivers To We War Coar & Station Prince Karan inner Sun ander Buchtes 1.0 Perbarges FIGURE 1. LOCATION MAP Laird Color and Spiagge 1 Normal Lakes ST SOSEM I North 09 N.S. Channel Cochburn Island er Va Are Bay ويتقدقني Store and or of M Station of Ň 19 TV 0 V. Austern Ducks MANITOULIN : ج معد معد ISLAND 6 Ciue Ing ۵ Far . 700 !



#### 3. GEOLOGY

#### Map References

Map 2070, Swayze and Dore Twps., O.D.M., 1963, 1"= ½ mile.
 Map 436 Swayze Gold Area, O.D.M., 1934.

The claim group is mainly underlain by a suite of intermediate to basic volcanic rocks with some interbedded acid volcanic rocks which are older. Two exposures of a granite intrusion have been mapped and a few short exposures of diabase dykes are shown on map 2070.

The intermediate to basic volcanic rocks are divided into a number of subformations of which chlorite schist, a massive andisite, and a grey massive andisite would appear to be the most common. Banded iron formation lies in places within the basic volcanics.

A gold and silver occurrence lies about 300 metres north of the north boundary in the massive andisite.

## 4. SURVEY SPECIFICATIONS

#### 4.1 Instruments

The present survey was carried out using airborne instruments with the sensor elements mounted in the wing tips of a Cessna 182 aircraft. The magnetic field was measured with a proton precession magnetometer model GSM-8BA, manufactured by GEM Systems, Toronto. The VLF-EM field was measured with a three component total field strength instrument, model TOTEM-2A, manufactured by Herz Industries Ltd., Toronto. Terrain clearance is measured by a King KRA-10A Radar Altimeter. Data from these three instruments are processed by a UDAS-100 data processor, manufactured by Urtec Ltd. and then recorded onto a ninetrack tape recorder, and printed as profiles on a thermal printer in real time on the aircraft (Fig. 3). A Geocam video tape system is used to follow the flight path, and fiducial numbers generated by the UDAS-100 are recorded onto the video images.

Full specifications of the instruments are given in Appendix A.

- 3 -

T E R R A O U E S T DTE 09 01 85 TM 12 28 20* BY: M.M. ACFT C-FAKK PN 8437 FLTN 051

PROG.VER.280184-GRAD. SURALT 100M

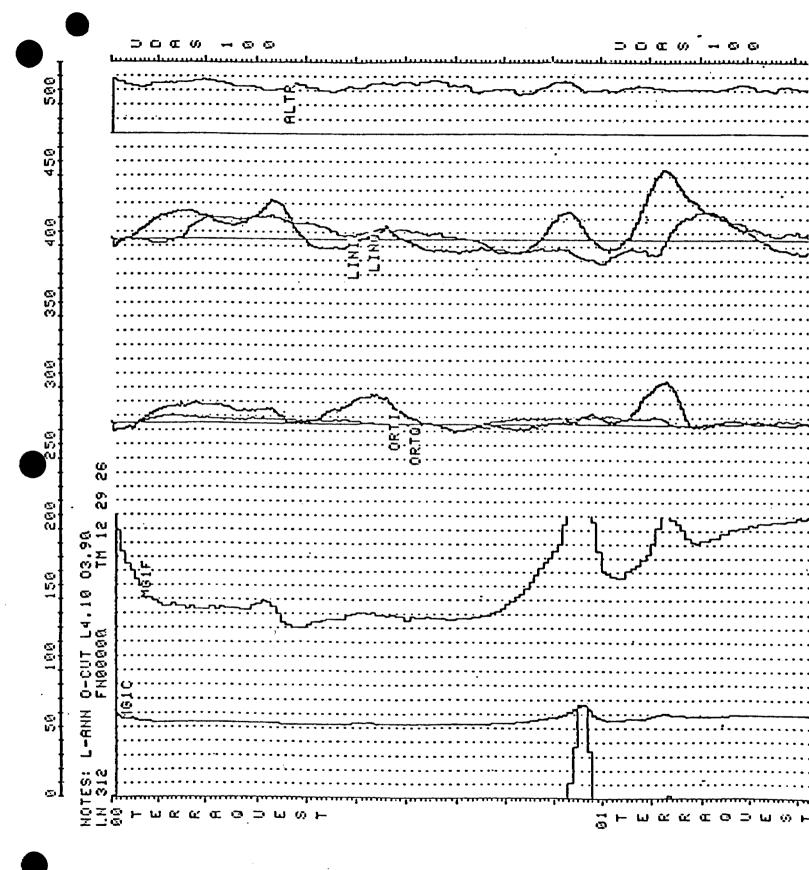


FIGURE 3. SAMPLE OF ANALOGUE DATA

#### 4.2 Lines and Data

- a) Line spacing 100 metres
- b) Line direction 0 degrees, (astr.) (north/south)
- c) Flying height 100 metres
- d) Flying speed 156 km/hr

e) Data point interval:

- magnetic 42 metres
- VLF EM 21 metres

f) Tie Line interval 2 kilometres

- g) VLF transmitter Ch. #1 (Line) Cutler, Maine 24.0 kHz.
- h) VLF transmitter Ch. #2 (Orthogonal) Annapolis, Maryland
   21.4 kHz.
- i) Line kilometres within the claim boundaries 161
- j) Line kilometres over total survey area 190

# 4.3 Tolerances

- a) Line spacing: Any gaps longer than one kilometre and wider than twice the line spacing were reflown.
- b) Flying height: Portions of line longer than one km which were above 125 metres were reflown if safety considerations were acceptable.
- c) Magnetic diurnal: Less than twenty gammas (nanotesla) deviation from a smooth background over a period of two minutes or less as seen on base station analogue record.
- d) Manoeuvre noise: approximately  $\pm 5$  gammas.

- 4 -

# 4.4 Photo mosaics

For navigating the aircraft and recovering the flight path, photo mosaics were made at final map scale from existing air photos. In order to provide a semi-controlled base the airphotos were laid down on a topographic map which had been photographically adjusted to match the photo scale. The laydown was then photographed and printed at 1:10,000 scale for navigating and flight path recovery.

#### 5.0 Data processing

Flight path recovery was carried out in the field using a video tape viewer to observe the flight path as recorded by the Geocam video camera system. The flight path recovery was completed daily to enable reflights to be selected where needed for the following day.

The remaining data processing was carried out in the offices of Dataplotting Services Inc. in Toronto.

Magnetic levelling was computed in the standard manner by tieing survey lines to the tie lines. The VLF-EM data was corrected by applying the following formula.

- 5 -

(A) Total Field Strength

$$V = \frac{SM + 100}{K}$$
 where  $K = \frac{S(A - 2R) + 100}{100}$ 

V = final corrected value in

M = raw data value from the magnetic tape

S = scale factor

A = average of all M on a given line.

R = standard deviation of A

(B) Quadrature

 $Q = \frac{SN}{K} \qquad \text{where } K = \frac{SB + 100}{100}$ N = raw dataB = average of all N

The vertical magnetic gradient is computed from the total field data using a widely accepted method of transforming the data set into the frequency domain, applying a transfer function to calculate the gradient, and then transforming back to the spatial domain. The method is described by a number of authors including Grant, 1972, and Spector, 1968.

Grant, F. S., Review of data processing and interpretation methods in gravity and magnetics, Geophysics, August 1972.

Spector, A., 1968, Spectral analysis of aeromagnetic maps: unpub.

University of Toronto thesis.

- 6 -

These calculations, and all other corrections and map contouring were carried out by Dataplotting Services Inc. of Toronto.

# 6.0 INTERPRETATION

The contour pattern shows a number of linear magnetic anomalies which are roughly parallel and are trending in an east-west direction. Some of these coincide with outcrops of the chlorite schist and are interpreted as such. Others are within the general region shown as intermediate to basic volcanic rocks and are labelled 4m on the interpretation map to indicate magnetic units within the volcanics. Some lateral displacements of these linear units have been interpreted as faults.

Two very obvious linear magnetic anomalies striking approximately N23°W are believed to be diabase dykes and are marked as such. An outcrop of granite lies in a roughly oval-shaped anomaly which has a different texture and character from the units marked as 4m, and it is believed that this could indicate the granite intrusion that is mapped in that location.

The VLF conductor axes conform to the geology and the magnetic pattern in most places. The unit interpreted as chlorite schist is conductive, which is normal for this rock type. Other of the magnetic units appear not to be conductive and in fact some are quite resistive which would be more common for silicified iron formation that is outcropping or has very thin overburden.

7. SUMMARY

An airborne magnetic and VLF-EM survey has been carried out over the claim block at a density of approximately 1 mile per mineral claim. The information from the survey has been interpreted to modify and update the existing geology.

TERRAQUEST LIMITED

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PROFESSIO 18193 R. K. WATSON Roger K. Watson, B.A.Sc., P.Eng

Geophysicist

APPENDIX A

#### GSM - 8 BA AIRBORNE PROTON MAGNETOMETER

SPE	CIF	'ICAT	'IONS
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kesolution: 0.5 gamma + 1 gamma over operating range Accuracy: 20,000-100,000 gamma in 23 overlapping Range: steps Gradient Tolerance: Up to 5,000 gamma/meter Output: VISUAL: 5 digit 1 cm (0.4") high Liquid Crystal Display, visible in any ambient light DIGITAL: Multiplied precession frequency and gating pulse ANALOGUE: 0-99 gamma (optional) External Trigger: Externally triggered cycling with period of 1.00 sec. Power Requirements: 28V DC, 8Ws per reading Operating Temperature: -40 to +55C Dimensions: Console:  $15x8x15 \text{ cm} (6x3\frac{1}{3}x6")$ Sensor: 14x7 cm dia (5 3/4x2 3/4" dia) Staff: 175 cm (70") extended, 53 cm (21") collapsed or sectional 45 cm (18") each section Weight: 2.7 kg (6 lb) complete, 2.3 kg (5 lb) in back-pack mode Manufacturer: Gem Systems Inc. 105 Scarsdale Rd. Don Mills, Ontario M3B 2R5

# Ve Electromagnetic airborne survey instrument

# **Multichannel**

# Specifications

# Introduction.

The Totem-2A measures basically the same parameters and shares the same package configuration as the well established Totem-1A.

This new generation instrument, however, measures multiple parameters on two channels simultaneously, with less noise and greater accuracy. These advancements have been achieved while maintaining the simple installation and operating procedures of the 1A model.

The Totem-2A employs state of art digital and linear integrated circuits to implement the functions of crystal controlled phase locked loop frequency synthesizers, dual frequency heterodyne conversion and proprietary time domain sampling vector computation techniques.

# Features.

The principal parameters measured are the change in total field and the vertical quadrature field. Parameters also available are the total field gradient (from sensors in two locations) and the horizontal quadrature field. The quadrature polarity is defined by the direction of flight relative to the field. The total and quadrature magnitudes are insensitive to sensor orientation in pitch, roll and yaw.

One obvious advantage of dual frequency operation is that primary sources can be selected to ensure good coupling with conductors of any orientation. Potential uses of the gradient mode are enhanced interline contouring and deliniation of multiple conductors with horizontal and vertical gradient respectively.

Specifications subject to change.

	-	
Primary source:	Magnetic field component radiated from VLF radio transmitters (one or two simultaneously).	
Parameters measured:	Total field, vertical quadrature, horizontal quadrature, gradient.	
Frequency range:	15kHz to 250kHz front panel selectable for each channel in 100Hz steps.	
Sensitivity range:	130uV/m to 100mV/m at 20kHz, 3dB down at 14kHz and 24kHz.	
VLFsignal bandpass:	-3dB at $\pm$ 80Hz, 4% variation at $\pm$ 50Hz.	
Adjacent channel rejection:	300 to 800Hz = 20 to 32dB, 800 to 1500Hz = 32 to 40dB, > 1500Hz > 40dB (for < 2% noise envelope).	
Out of band rejection:	10kHz to 2.5kHz = $5 \times 10^{-4}$ A/m to $5 \times 10^{-1}$ A/m < 2.5kHz rising at 12dB/octave 30kHz to 60kHz = $5 \times 10^{-4}$ A/m to $8 \times 10^{-3}$ A/m > 60kHz rising at 6dB/octave (for no overload condition).	
Output span:	$\pm 100\% = \pm 1.0V$	
Output filter:	Time constant 1 sec for 0 to 50% or 10% to 90%, noise bandwidth 0.3Hz (second order LP).	
Internal noise:	1.3uV/m rms (ambient noise will exceed this).	
Sferics filter:	Reduces noise contribution of impulse interference.	
Electric field rejection:	< 0.5% error for 20m tow cable.	
Controls:	Power switch, frequency selector switches (line & ortho) level controls (lime & ortho), meter switch (total/quad) sferics filter switch.	
Displays:	Meters (line & ortho), sferics light, overload light.	
Inputs:	Power, 23 to 32 Vdc fused 0.5Amp. Signal, Sensor upper, Sensor Iower.	
Outputs:	Total, quad, gradient, multiplexed (line & ortho). Audio monitor, stereo line & ortho.	
Dimensions & weight:	Console 19" rack mounted, 4.5cm high x 34cm deep, 3.8kg. Sensor and pre-amplifier assembly 15cm dia. and 46cm long, 1.5kg.	





Manufacturers of geophysical instruments

### URTEC MODEL - UDAS-100

#### SPECIFICATIONS: UNIVERSAL DATA ACQUISITION SYSTEM URTEC MODEL --- UDAS-100

#### **BASIC UDAS**

CRERROCESSOR AND MEMORY: Texas Instruments TMS 9900 - 16 BIT with built in MICA multiply and divide hardware.

- Total memory expandable to 32k words.
- Basic system contains:
- 16k 16 bit word RAM Up to 8k 16 bit word EPROM
- Cartridge program loading
- 12k Bytes of non volatile RAM program storage (optional)

#### INPUTS AND OUTPUTS

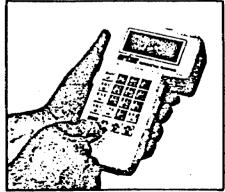
- Analog input: 16 differential input channels with 12 bit resolution at ± 5V full scale
- Analog output up to 16 channels (optional)
- 30 addressable ports for multiple byte transfer 56 input/output lines for BCD and binary data information
- (transferred in multiples of 8 bit bytes)
- 3 pulse accumulator inputs for frequency and pulse . information. (eg. - Doppler navigation and radar altimeter).
- 2 digital spectrometer inputs. (eg. upward and downward detectors selectable at 256 or 512 channels) 1 RS 232 serial port for interactive keyboard and display 1 RS 232 serial port for addition of CRT floppy disks and
- other terminals.
- 1 same protocol as RS 232 with TTL level
- 1 operator controlled fiducial input (switch or keyboard activated)
- Y output for graphic display on oscilloscope
- High speed data transfer-lines GPIB IEEE-488 compatible

#### **INTERFACES:**

- Magnetometer control and signal input for proton or cesium magnetometers
- Error condition indicator level for remote monitoring of diagnostic tests.
- Controller and outputs for two 9 track ½ inch magnetic tape units.
- Printer/Recorder controller.
- Digital interface to navigation camera (8 digits of fiducial and coding information).
- Controller for magnetic tape cartridge (program loader) Disk storage interfaced via RS-232 or GPIB --- IEEE-488 BUS

#### CONTROLS:

- System power on/off switch
- Keyboard with 24 character alphanumeric display. Keyboard/display can be operated on main console or remotely
- Manual start and load of Julian clock and fiducial numbers
- All control functions interrogate with YES or NO answer.



Hand Held Interactive Terminal

*parlec* 

INSTRUMENTS SALES LIMITED

#### SOFTWARE:

The basic system is supplied with the necessary programs (on magnetic cartridge) to execute routine operational functions and standard survey requirements. Additional dedicated programs are also included to provide:

- . Spectrometer Calibration
- Automatic resolution check
- Full spectra printout on recorder/printer
- ٠ Continuous monitoring of system gain using natural "K" photopeak
- Automatic window adjustments
- Fast total count sampling (0.1 sec) for point sources resolution.
- Selective graphic display options. Read after write data verification.
- Selective data tape dump
- Magnetic tape copy (optional) Data processing and plotting program (optional)
- •
- Diagnostic test programs
- A variety of additional special functions programs are available on request.

#### PRINTER/RECORDER

#### CONTROLS

- Power on/off switch
- Automatic paper feed •
- Print contrast control
- On/off print head control
- Automatic take-up spool

#### FORMATS

- Alphanumeric, complete ASCII character set. Thermai 5 x 7 dot matrix
- Graphics 70 x 70 dots per inch resolution
- Software programable under UDAS control
- Records up to 16 analog traces each with variable O and F.S. setting. Traces can be stacked or overlapping. Software controlled. Trace position and amplitude can be adjusted via interactive keyboard.
- Overflow is automatic by digital stepping. Complete alphanumeric annotations can be printed on recording chart (eg. name of project and survey area details, fiducial numbers, time, recording scales and parameters etc.)
- PAPER
- Thermosensitive paper 222mm (8.75 in.) wide, 30 meter (100 ft.) long
- Thermal print head is board mounted and easy to replace

POWER

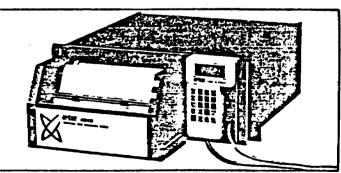
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#### WEIGHT

15.6 kg. 35 lbs.

#### DIMENSIONS

48.2 cm (19 in.) wide, 17.8 cm (7.0 in.) high, 40.6 cm (16 in.) deep (standard rack mount).



UDAS-100 Console with Printer/Recorder Extended

FOR FURTHER INFORMATION CONTACT

APPENDIX B

## SWAYZE & CUNNINGHAM TOWNSHIP.

MINING CLAIM NUMBER

### PREFIX

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NAT RIVER PROPERTY

#### 1984

EXPLORATION

#### QUINTERRA RESOURCES INC.

#### INTERNAL REPORT

GEOLOGY OF

#### NAT RIVER PROPERTY

by

Laurent Halle

September 20, 1984

#### 1. Introduction

The Nat River property is held jointly by Quinterra Resources Inc. (50% interest) and by Highland Crow Ltd. The property consisted of 17 contiguous claims in the north-east quadrant of Penhorwood Township., 50 miles west of Timmins.

During the period of September 5th to September 9th, L. Hallé carried out a geological survey over the property at the scale of 1"=200'. The location of outcrop was put according to a 400' by 100' cut grid. The survey was done to provide a basic geological map for further work.

#### 2. Location, Access and Physiography

The Nat River property is located 50 miles south-west of Timmins in Penhorwood Township. The access from Timmins is via highway 101 west, then south about 7 miles on the Kenogaming Lumber Company haulage road, which cuts across the middle of the claim group.

Most of the property has been recently logged and is covered by clay, sand and gravel. One small river and few creeks cross the property. The bedrock is then poorly exposed over the whole group.

#### 3. Previous Work

Not much work has been done on this property. During the 1950's, the Kukatush Mining Corp had investigated the group for iron potential in the iron formation. Some old trenches near mineralized quartz boulders are the only evidence for gold prospecting in the past. Recently, Quinterra Resources has done a magnetometer survey, trenching and stripping program. 4. General Geology.

The Nat River Property is located in the Abitibi-Swayze River Gold Belt. The property is underlain by mafic volcanics, some felsic prophyry intrusions and iron formation. The general strike is northeast and dips fairly steep north west.

5. Local Geology.

5.1. Volcanic Rocks.

Most of the mafic volcanic rocks appear in the northern part of the property. They are basaltic to andesitic. One flow unit has been identified as a pillow breccia. It is composed of a brecciated pillow border in a fairly brecciated horizon. The pillows are generally hard to recognize in the field, but in one outcrop the author has been able to recognize the texture (L.4+240, 800N).

The other volcanic rocks found elsewhere on the property are highly chloritized mafic rocks, except for three outcrops (20+00W, 740S) which might be mafic agglomerate or lapilli tuff.

5.2 Tuff.

5.2.1. Mafic Tuff.

One large outcrop in the south center of the property appears to be a well laminated mafic tuff. These rocks are again hard to identify due to the intense alteration, but the lamination are preserved and are defined by small beds of carbonate and sericitic material. Some pyrite crystals have been found in the tuff.

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#### 5.2.2 Acid Tuff

The acid tuff has been found close to the iron formation. They are well laminated and have in some part a spherulitic texture. These spherulitic beds are 5 to 15 inches wide and seem to have no lateral continuity. The tuffs are also well mineralized in pyrite along some of these beds.

#### 6. Intrusive rocks

#### 6.1 Porphyritic Intrusion

A quartz porphyry rock is exposed in the west part of the property. This rock contains over 30% quartz phenocrysts of 1mm to 5mm diameter. The feldspar ground mass is probably plagioclase rich. In some outcrops the quartz phenocrysts are not visible due to the proximity of the contact with volcanic rocks or the numerous veinlets of quartz, which are probably remobilized quartz from the intrusion (L45+20E, 1800S). Several other small dykes over the whole property must be the apophysis of this intrusion.

#### 6.2

Northeast trending diabase gabbro dykes intrude all the rocks and are the last intrusive event in the area. They cut the intrusive felsic rocks in some places (L52+120W, 550N). They are magnetic and have a medium grain size.

#### 7. Structure

#### 7.1 Folds

There are at least two phases of deformation and maybe three. The first has a well developed schistosity, while the second phase folds the

-3-

schistosity of the first. The  $P_2$  fold axis seems to be folded by a third phase. The  $P_2$  fold axis has a spread out orientation and this means that there could be a third phase of deformation.

#### 7.2 Faulting

No major faults was found during this survey, but the presence of several minor faults with a northwest trend could be helpful to interpret a major structure. The magnetometer survey also indicated a displacement of the iron formation in the southeast part of the group.

#### 8. Conclusion

Geologically, the Nat River Property is well located for gold mineralization. The iron formation which crosses the property could be a good chemical trap for gold precipitation where it is intersected by an indicated major fault.

#### 9. Recommendations

1. The southeast part of the claim group should be further investigated to check if there is a major structure. This area could be a good target for gold trapped in a fault or the nose of a fold.

2. More work should be done in structure interpretation.

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QUINTERRA RESOURCES INC.

GEOLOGY OF

NAT RIVER PROPERTY

PENHORWOOD TOWNSHIP

by

Laurent Hallé

Raymond Lashbrook

November 21, 1984.

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#### 1. Introduction.

The Nat River property is held jointly by Quinterra Resources Inc. (50% interest) and by Highland Crow Ltd. The property consists of 17 contiguous claims in the northeast quadrant of Penhorwood Township.

During the period of September 5th to September 9th, L. Hallé carried out a geological survey on these three claims at the scale of 1"=400'. The survey was carried out along a 400' by 100' cut grid.

The survey was done to provide a basic geological map for further work, but the lack of outcrop provided only minor geological information for this part of the group.

2. Location, Access and Physiography.

The Nat River property is located 50 miles southwest of Timmins in Penhorwood Township. The access from Timmins is via highway 101 west, then south about 7 miles on the Kenogaming Lumber Company haulage road, which cuts accross the middle of the claim group.

Most of the property has been recently logged and is covered by clay, sand and gravel. In the uncut area, mostly in the west part, the main types of trees are spruce, balsam, pine and birch. One small river and a few creeks cross the property. The bedrock is then poorly exposed over the whole group.

3. Previous Work.

Not much work has been done on this property. During the 1950's the Kukatush Mining Corp, as part of a larger group, investigated for iron formation. Some old trenches near mineralized quartz boulders are the only evidence for gold prospecting in the past.

4. General Geology.

The Nat River property lies in the Abitibi-Swayze River Gold Belt. The area is underlain by mafic volcanics, felsic volcanics, felsic porphyry intrusions and iron formation. The general strike is northeast and dips fairly steep northwest. 5. Local Geology.

Only one outcrop was exposed on the three claims. It was a mafic volcanic, possibly andesite, and was cut by a small quartz vein. Minor disseminated pyrite was also noted.

The rest of the claims are covered by gravel, glacial till and sand.

A previous magnetic survey over these claims has one magnetic anomaly (to 61,400 gammas) crossing the 3 lines between 4N and 9N. It's shape is slightly arcuate and fairly symetrical about a high central core probably indicating a near vertical, dyke-like intrusion.

The one outcrop is located on the south side of a weak magnetic expression increasing to the north.

Due to lack of outcrop and any correlation with the magnetics no other clues as to the nature of the underlying geology can be got at this time.

6. Conclusion.

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Although there is a lack of outcrop on these three claims, the potential for gold mineralization remains. The strong carbonate alteration zone and porphyry intrusion to the east could have a lateral extension under the glacial material and constitue a setting for gold mineralization.

#### CERTIFICATION

I, Laurent Hallé of 8 Chemin de Fabre, Ville-Marie, Quebec do hereby afirm that

- 1) I am a graduate of the University of Quebec of Montreal and am enrolled in a Masters degree at McGill University.
- 2) I have been practising my profession in Canada since 1982.
- 3) I have no direct interest in these claims.

ţ,

4) The accompanying report is based on observations obtained while mapping the property.

Hallé Laurent

#### CERTIFICATION

I, Raymond Lashbrook of 979 Tackaberry Drive, North Bay, Ontario, do hereby afirm that

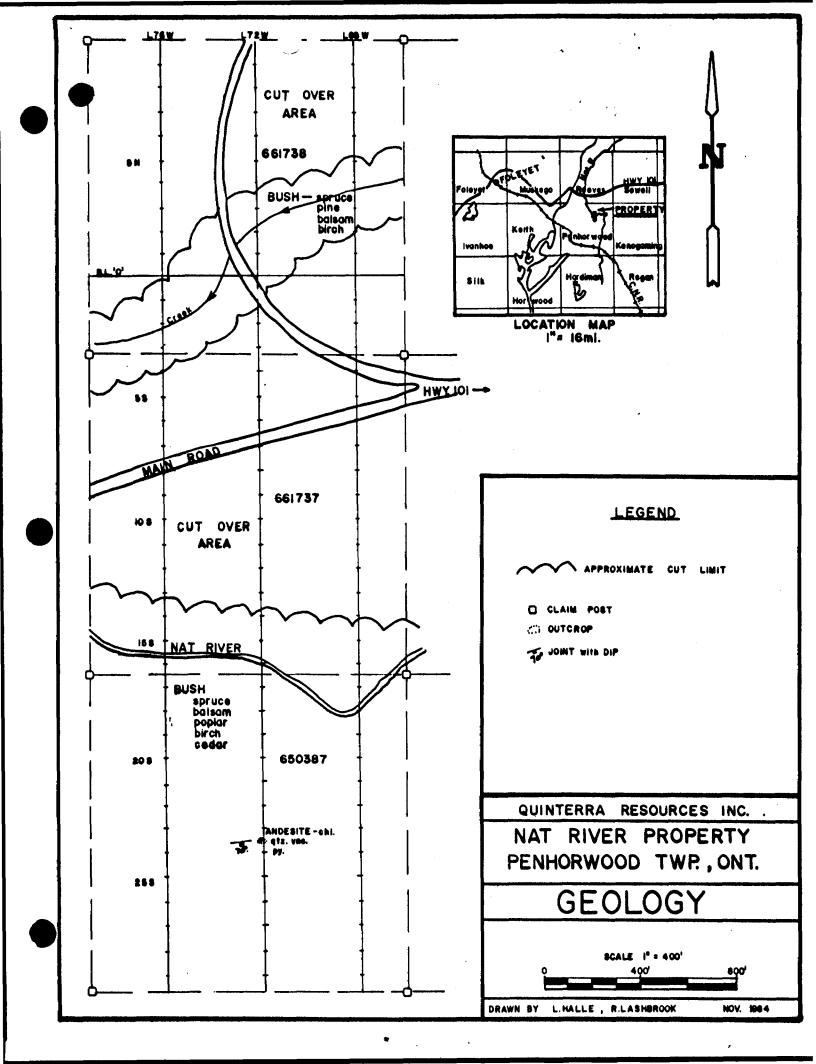
- I am a graduate of Haileybury School of Mines a a Mining Technician in 1969.
- 2) I have been practicing my profession in Canada since 1969.
- 3) I have no direct interest in these claims.

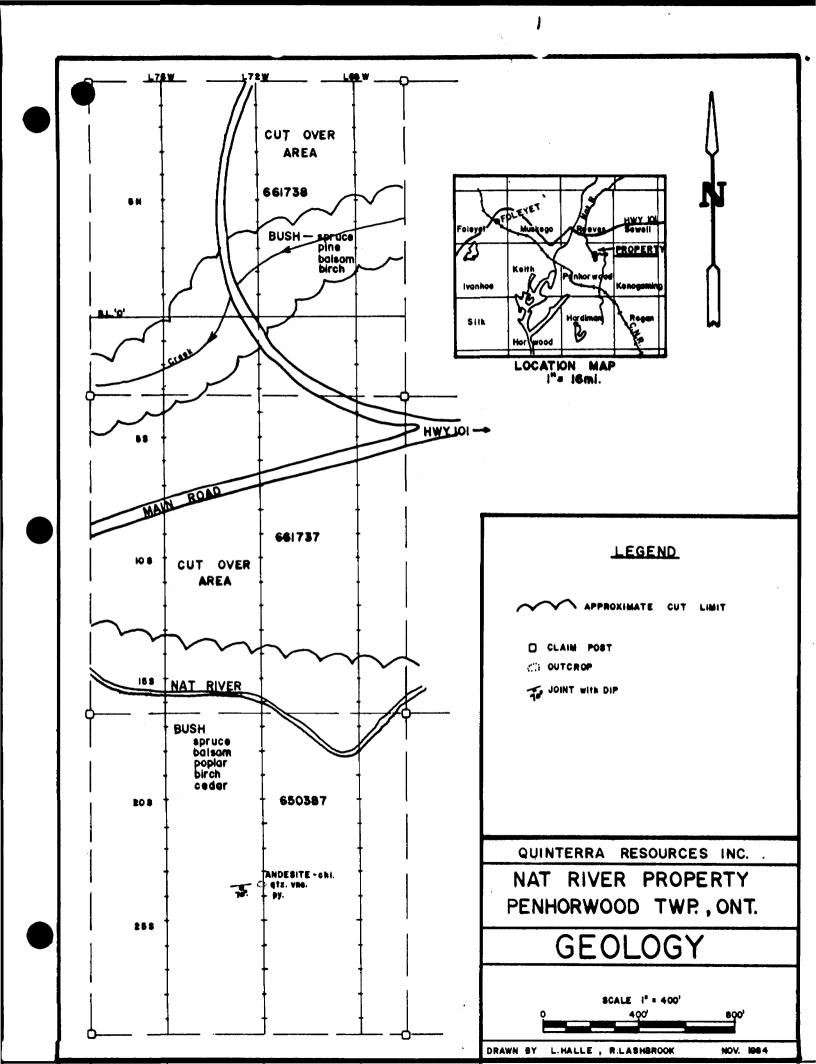
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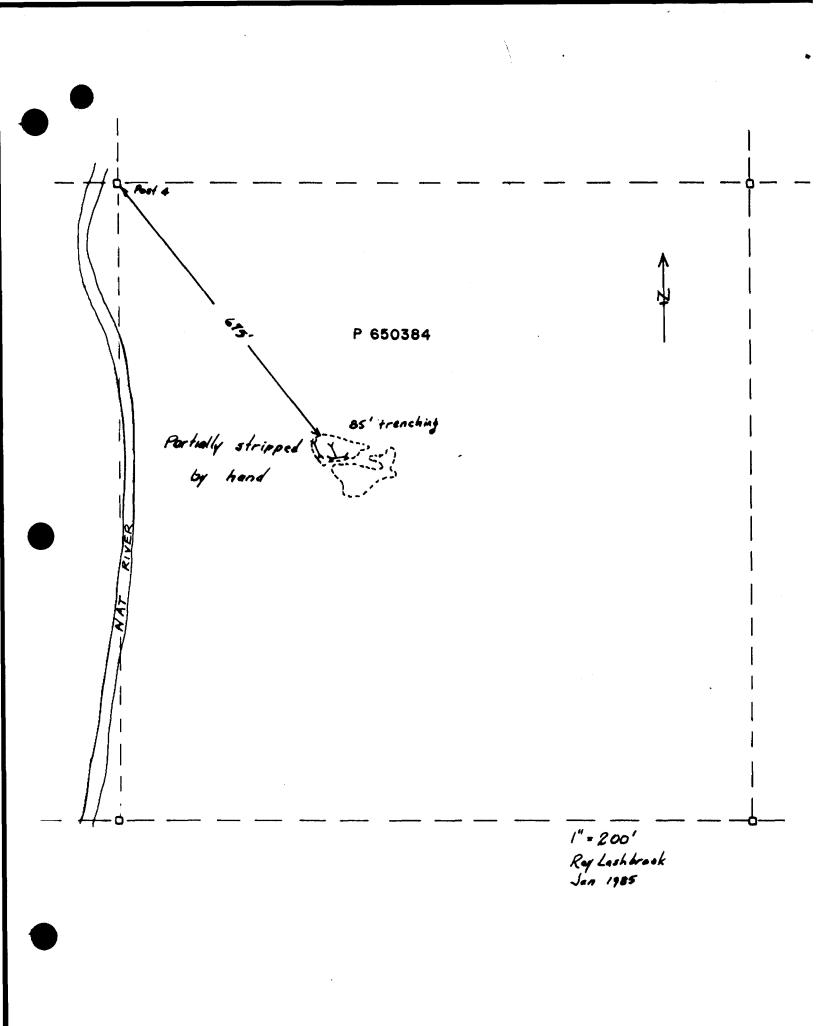
 The accompanying report is based on observations obtained during visits to the property.

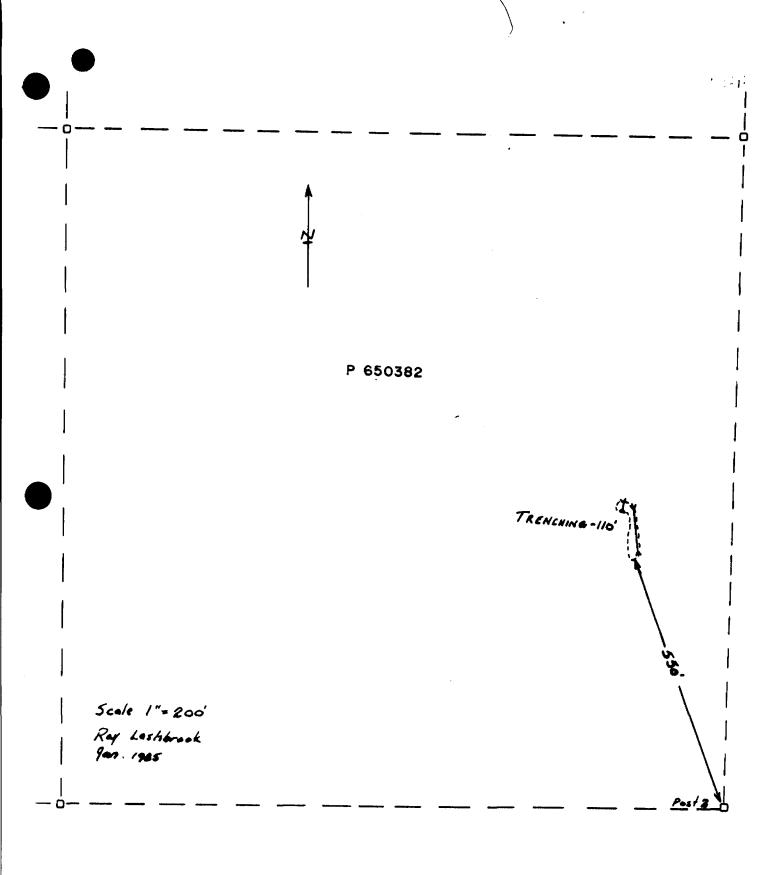
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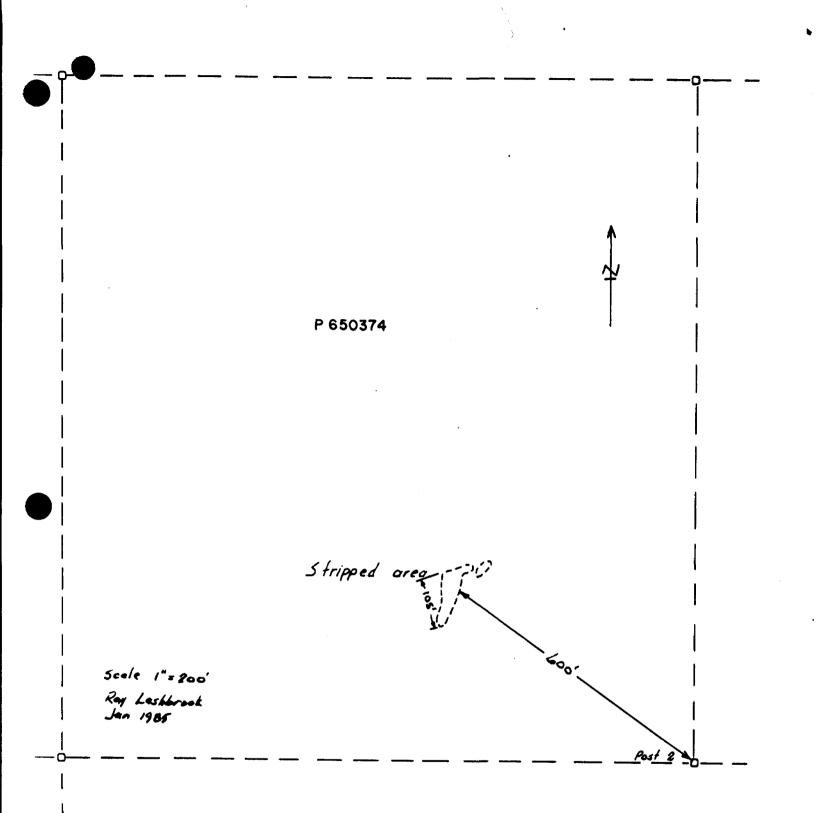
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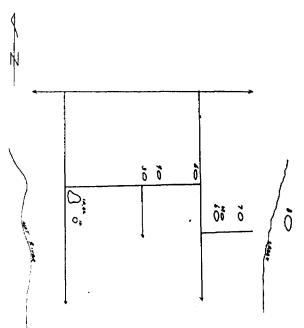
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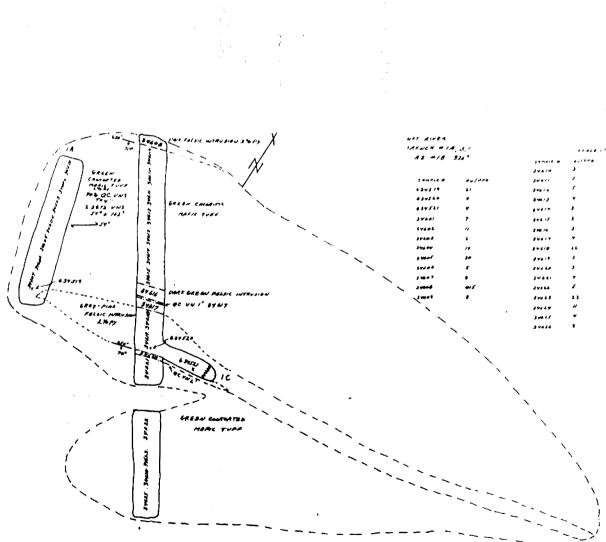
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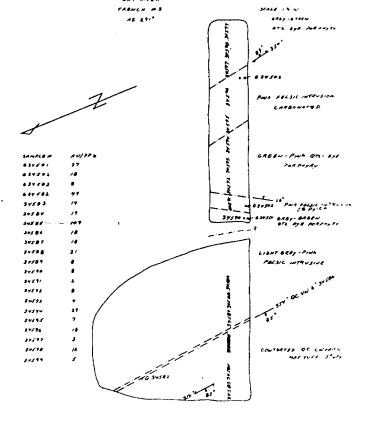


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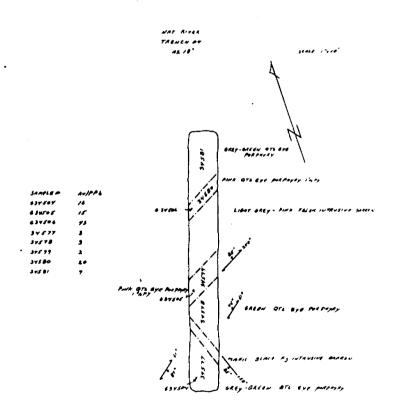
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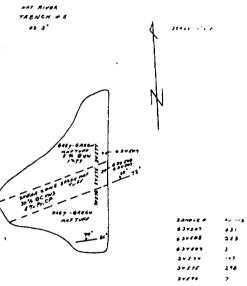
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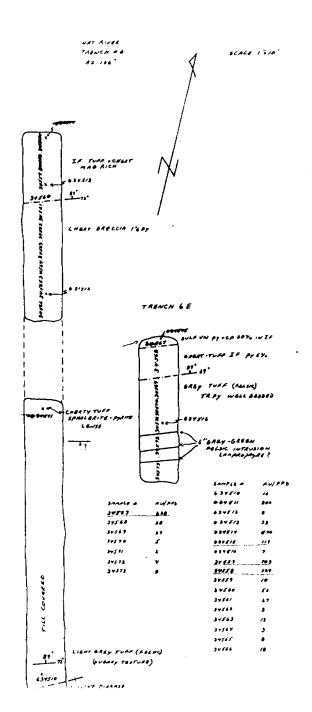
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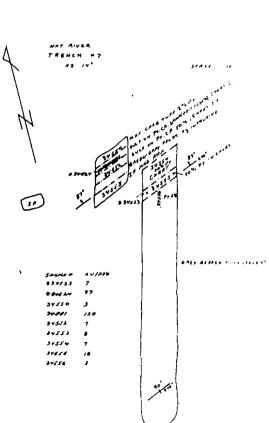
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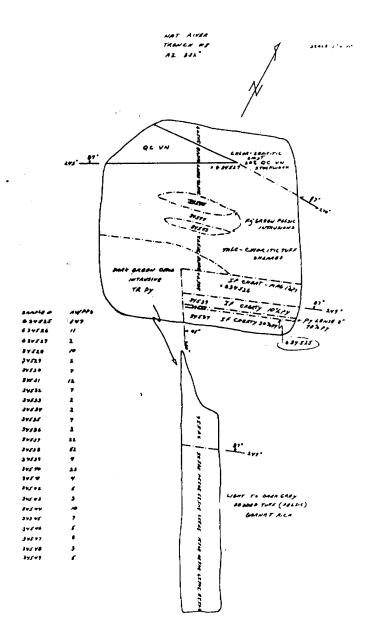
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NAT RIVER TRENCH 10 AL 26°

SCALE 1-110'

BELL - WHITE	ANALYTICAL	LABORA	TORIES	LTD.
P.O. BOX 187,	HAILEYBURY, ON	TARIO	TEL: 672-	3107
Certifi	cate of Ana	lysis		

NO. B681-84	Page 2 of 2	DATE:	July 17, 1984
SAMPLE(S) OF:	Rock (124)	RECEIVED:	July, 1984
SAMPLE(5) FROM:	W. O. Karvinen & Associates	Limited	

PN 073 NAT RIVER

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Sample No.	<u>Gold/ppb</u>	Sample No.	<u>Gold/pbb</u>
G34563	12	G34596	18
4	3	7	3
5	8	8	16
6	18	9	5
7	238	G34600	175
8	38	1	7
9	29	2	11
G34570	5	3	2
1	2	4	14
2	4	5	30
3	8	6	5
4	147	7	8
5	298	8	415**
6	7	9	8
7	3	G34610	· 3
8	3	1	3
9	2	2	5
G34580	20	3	4
1	7	4	3
2	49	5	3
3	14	6	3
4	19	7	4
• 5	107	8	22
6	18	9	3
1	18	G34620	3
8	21	1	4 5
9	8	2	5
G34590	8	3	23
1	2	4 5	11 /
2	8	2 4	4 2
3	4	0	2
4	29		
5	7		
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				LABORA	TORIES LTD.	
	$\sim$	P.O. BOX 187.	HAILEYBURY, ON		TEL: 672-3107	
		Øerti	ficate of Ana	lysis		
NO.	B681-84		Page 1 of 2	DATE:	July 17, 1984	
SAMPL	E(S) OF:	Rock (124)		RECEIV	ED: July, 1984	

W. O. Karvinen & Associates Limited SAMPLE(S) FROM:

River PN 073 Nat

<u>Sample No.</u>	<u>Gold/ppb</u>	<u>Sample_No.</u>	<u>Gold/ppb</u>
G34501	37	G34532	7
2	18	3	
3	8	4	2 2 7 2
4	16	5	7
5	15	6	2
6	43	7	2 2
7	631**	8	52
8	253**	9	4
9	3	G34540	23
G34510	16	1	4
· <b>1</b>	306	2	5
2	8	3	3
2 3	8 3 3	3 4	3 10
4	576**	5	7
4 5	119	5 6	7 5
6	7	7	8
7	321	8	3
8	650**	9	5
9	21	G34550	3
G34520	4	. 1	130
1	4	2	7
2	8	3	8
. 3	7	4	7
4	97	5	18
5	147	6	-5
6	11	7	103
7	2	8	129
8	10	9	10
9	2	G34560	. 52 27
G34530	7	1 2	27
- 1	12	2	2
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ACCORDANCE WITH LONG ESTABLISHED NORTH UNICAN CUSTOM UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ITE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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		BELL - WHITE	ANALYTICAL LABOR	ATORIES LTD.
	$\sim$	P.O. BOX 187,	HAILEYBURY, ONTARIO	TEL: 672-3107
		Certifi	cate of Analysis	
NO.	B500-84		DATE	: June 20, 1984

RECEIVED: June, 1984

Inhour

SAMPLE(S) FROM: Mr. Ray Lashbrook Quinterra Resources Inc.

Rock (5)

SAMPLE(S) OF:

Sample No. Ag/ppm Zn/ppm Cu/ppm Pb/ppm % Zn Mo/ppm G38501 0.4 54 32 94 G38505 11.2 1250 5.0 G38506 2.6 0.50 96 G38508 N.D. 9800 G38515

N.B.: N.D. denotes "Not Detected"



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HAILEYBURY, ONTARIO

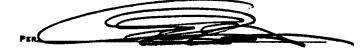
TEL: 672-3107

# Certificate of Analysis

10.	B459-84		DATE:	June 14, 1984
<b>SAMPLE</b>	( <b>S</b> ) <b>OF:</b> R	ock (7)	RECEIVED:	June, 1984
SAMPLE	(S) FROM:	Mr. Ray Lashbrook Quinterra Resources I	.nc.	

<u>Sample No.</u>	Gold/ppb
G38510	57 SILV. CK. 074
1	196
2	96 7.125
3	33 Nat Kiver
4	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
5	$10 \cup 0$
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	BELL - WHITE ANALYTICAL		LTD.	
	P.O. BOX 187, HAILEYBURY, ONT	ARIO TEL: 67	2-3107	
Certificate of Analysis				
10. B434-84		DATE: Ju	ne 7, 1984	
SAMPLE(S) OF:	Rock (5)	RECEIVED:	June, 1984	
AMPLE(S) FROM:	Mr. Ray Lashbrook Quniterra Resources Inc.	Pinhoursed	۰	

Sample No.	Gold/ppb		
G38505	92		
6	49		
7	142		
8	4		
9	27		

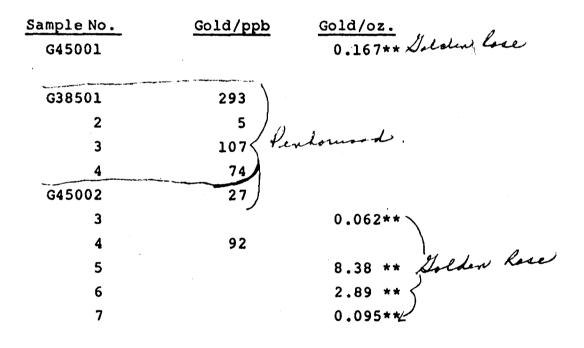
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	Bell-WHITE ANALYTICAL LABORATORIES LTD.					
		IRY, ONTARIO	TEL: 672-3107			
	Certificate of	Analysis				
NO. 16815		DATE:	June 5, 1984			
SAMPLE(S) OF:	Soil (1) Rock (10)	RECEI	<b>VED:</b> May, 1984			
SAMPLE(S) FROM:	Mr. Ray Lashbrook Quniterra Resources	Inc.				



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SWASTIKA LABORATORIES LIMITED

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P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

# Certificate of Analysis

Certificate No	57737			Date:	May 29, 1984
Received May	22, 1984	20	Samples of	ore	
Submitted by	Ouinterra	Resources Limited.	North Bay.	Ontario	Att: R. Lashbrook

SAMPLE NO.	GOLD PPB	COPPER PPM	NICKEL PPM	ZINC PPM	LEAD PPM	SILVER PPM
× 4003	Nil	298	116	-	-	-
✓ 4004	80					
<b>√ 4005</b>	Ni 1					
. 4006	30					
- 4007	30					
4008	10					
· 4009	900					
¥ 4010	10	2200	-	2100	-	-
4011	Ni 1					
v 4012	10					
✓ 4013	10					
~ 4014	110					
4015	10	62	-	17000	5900	0.9
× 4016	90					
4017	Ni 1					
4018	Ni 1					/1
- 4019	60	280	-	58000	578	14.2 = 0.42 -1/7.
[~] 4020	60			5.8%.	. 058°/6	
4021	50					
4022	90					

River Claims Inhorwood. Twp.

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Per G. Lebel, Manager

ESTABLISHED 1928

 Swastika Labora ORIES Limited

 P.O. BOX 10, SWASTIKA, ONTARIO POK 1TO

 TELEPHONE: (705) 642-3244

 ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

 Uertificate of Analysis

 Certificate No. 57737

 Date:
 May 29, 1984

Received May 22, 1984 20 Samples of ore

Submitted by Quinterra Resources Limited, North Bay, Ontario Att: R. Lashbrook

		Pen	horwood	1 Tw	P.			
SA	MPLE NO.	GOLD PPB	COPPER PPM	NICKEL PPM	ZINC PPM	LEAD PPM	SILVER PPM	
Loat	4003	Ni 1	298	116	-		-	:
	4004	80						·
н	4005	Ni 1						
ole	4006	30						
د	4007	30						×.
Elect	4008	10		;				
Tc	4009	900			i.			
Flat	4010	10	2200	-	2100	-	-	
c	4011	Ni l						•
de	4012	10						
Float	4013	10						
h	4014	110						
*1	4015	10	62	-	17000	5900	0.9	
11	4016	90						
<b>F</b> 1	4017	Ni 1						
0/2	4018	Ni l			-			
=loat	4019	.60	280	- (	58000	578	14.2	
olc	4020	60			5.8%	, _		
dc	4021	50			~.0 (	0		
Float	4022	90						



G. Lebel, Manager

**ESTABLISHED 1928** 

Per



42801NE8577 63.4501 PENHORWOOD

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Halcrow Patents

Reconnaissance Summary Quinterra Resources Inc., October 2, 1984

By: Roger Poulin

Quinterra Resources Inc.



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## APPENDIX

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INTRODUCTION:

Field work was done by the author R.Y. Poulin and Mr. D. Lashbrook, during the period of September 18th to September 25th, 1984.

Mapping was done to determine the geological setting and to identify any areas of economic significance. General prospecting was also done to find old trenches and new veins. A 6,700 foot baseline was cut at  $315^{\circ}$  through the property for control and random traverses were done for mapping. The geology was plotted at 1"=400 feet and sampled trench and vein areas were mapped at 1"=10 feet and 1"=200 feet (fig 1,2,3,).

During this investigation, quartz veins mineralized with chalcopyrite were discovered. Native gold was also found in an old trench area in the south western corner of the property.

The claim groups investigated consists of mining patents numbers S22187, S22186, S22155, S22185, S22178, S22147, S22179, S22169 and S22176.

2. LOCATION, ACCESS AND PHYSIOGRAPHY.

The property is situated approximately 25 miles east of Chapleau, Ontario in west central Halcrow Township, west of Shunsby Lake. The property was formerly known as Halcrow-Swayze Mines. Limited and is now owned, 1965, by Belcher Mining Corporation Limited.

Access is by light aircraft or snowmobile. All previous roads into the property are all grown in and the nearest usable road is approximately 3 miles south on Sawbill Lake in Tooms Township.

#### 3. PREVIOUS WORK:

Prospecting, trenching and mining on the property was done by Halcrow-Swayze Mines Limited in 1932 and 1933 4 A 371 foot shaft was sunk south of the property boundary for ore reserve evaluation of a mineralized shear zone. Ore reserve estimates are 35,000 tons with an average grade of 0.171 ounces of gold per ton from surface to the 354 foot level. (1) Trenches and a diamond drill Page 2 continued....

hole was found in the north part near the shaft in the south west corner of the property. 2,000 feet of diamond drilling was done in the mine area as well as 1,200 feet of underground drifting.

J.F. DONOVAN:

(1) Geology of the Halcrow-Ridout Lakes Area, O.D.M., GR63, 1968, Pages 38,39.

The property is now owned 1965, by Belcher Mining Corporation Limited. Recent mapping and sampling was done by Regal Petroleum Limited to the north, east and south of the claim group.

4. GENERAL GEOLOGY:

The rocks on the property are mostly volcanic extrusives and are mafic to intermediate in composition. They are intruded to the west by a large granite intrusive. These rocks represent the western edge of the Swayze "GREENSTONE" belt.

5. LOCAL GEOLOGY:

The volcanic rocks are represented by basalts, andesites, rhyolites, mafic tuffs and felsic tuffs. Generally the rock units dip steeply to the north-east with local variations in direction and dip probably due to folding and faulting. The average dips are from  $90^{\circ}$  to  $70^{\circ}$  and the average strike of the units are north-south to north-west.

Metamorphism of the rocks is of the chlorite-amphibolite facies. Alteration is strongest near fault systems and intrusive contacts and is represented by chloritization, carbonatization, sericitization, silicification and saussuritization. Some of the basalts have amphibole alteration as well as biotite.

The basalts, andesites and rhyolites appear to be in flows of 20 to 30 feet in width, however, not many contacts were seen because of humus cover. The tuffs are in units of possibly greater than 500 feet. Page 3 continued....

Stratigraphy is impossible to determine at this time. The volcanism appears to have been bimodal.

Very few volcanic textures were preserved due to foliation on the property. Pillows were observed in the mafic basalts, however, tops could not be determined. The basalt, and esite and rhyolite all had massive and porphyritic phases.

The intrusive rocks consist of granite, granodiorite, quartz diorite as well as a feldspar porphyry (DACITE?). The granite represents a large intrusive body to the west of the property. It has a very fine grained contact zone with the volcanics. The other intrusives appear to be dike like and are probably less than 100 feet in width. The granodiorite and quartz diorite were found only in the south western area near the mine.

6. STRUCTURAL GEOLOGY:

Faulting in the area trends two directions; north-west and at nearly right angles north easterly. All the quartz veins found were in or near these faults and at fault intersections.

Foliation on the property dips and trends with the bedding of the rock units except near the faults where the dips are considerably shallower, 30°.

The rocks become so sheared near the faults that identification is difficult.

Drag folding and kink banding were observed in a felsic tuff unit in the south east part of the property near Shunsby Lake.

#### 7. ECONOMIC GEOLOGY:

Trace amount ofpyrite were found in some mafic tuff units and in some of the sheared chloritic mafic basalts. Granodiorite found in the south western portion of the property near the mine was mineralized with chalcopyrite.

The "North Trench Area" (fig 1) consists of quartzcarbonate vein pieces in till of sericitic carbonated tuff. It lies on the western edge of a north-west fault. Two pits have been dug into the till and a diamond drill hole was also drilled. Page 4 continued....

The quartz pieces were from 4" to 1 foot in width and some of them were mineralized with up to 5% chalcopyrite and up to 5% arsenopyrite crystals.

The "Swamp Area" (fig 2) consists of two sets of quartz veins filling fractures from a north-west fault and a northeast fault. The veins are 4" to 1 foot in width and contain 1% to 5% chalcopyrite. The veins are in mafic basalt flows.

The "South Trench Area" (fig 3) consists of a 4" quartz vein near a granodiorite contact with sheared porphyritic rhyolite. The vein contains 5% chalcopyrite. Visible gold in fine flakes with altaite and possibly calaverite was found in quartz vein pieces in the dump near this trench. A 20 foot deep pit was sunk on this vein. The vein is parallel to the shear zone of the Belcher mine which is about 60 feet to the south. Another 1 foot wide quartz vein was found 400 feet to the east of the south trench. It contained about 20% specular hematite. This vein represents cross fracture fillings from the Belcher mine shear zone.

Visible gold with 5% chalcopyrite was found in a 4 foot wide quartz vein on the Belcher mine property about 250 feet south east of the shaft north of the main shear zone. This could be the same vein found 400 feet east of the south trench on our ground along the south claim line.

#### 8. CONCLUSION - RECOMMENDATION:

On the claim group, many more veins could be found by prospecting in and along the fault valleys. Most of the outcrop exposed is only covered with moss. The mineralized north trench area could have continuity in the fault where it is present. The central swamp area could be easily stripped and prospected for more veins. The south trench area could be stripped for the continuity of its gold bearing vein.

The possibility of a large tonnage ore body is low on the property, however there is a good possibility for a high grade low tonnage ore body.

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Page 5 continued....

The Belcher mine south of the claim group could have a potential for open pit mining if enough vein concentrations could be uncovered.

Because the mineralization is fault bound and does not appear at this time to be dependent on rock type, the potential is good to find an orebody like the Belcher ore zone to the north on the claim group.

Mapping, prospecting, stripping, blasting and sampling is recommended for future work on this property.

Respectfully submitted

Roger Y. Poulin.

#### APPENDIX

#### ROCK SAMPLES SHUNSBY LAKE.

- S1 (Typical 1A) Chlorite-sericite-feldspar-quartz tuff, sheared and layered 1mm to 1" beds, northwest end of property, some grade into fine grained graywacke.
- S2 Felsic tuff sericitic and carbonated, found in old trench in north west part of property.
- S3 Quartz-ankerite vein with arsenopyrite and pyrite to 5% from northwest trench. Sample #051102.
- S4 Felsic tuff-drag folded, highly sheared, disseminated pyrite fine grained, on 127+50 on tie line near Lake (Shunsby).
- S5 Rhyolite-porphyritic, drag folded plus highly sheared disseminated pyrite quartz-feldspar grains to 2mm on 129 to 131W on tie line near Shunsby Lake.
- S6 Felsic tuff fine grained, kink banding to 4", drag folded, 100 feet east of 0+00 baseline on new survey line to Shunsby Lake.
- S7 Andesite-carbonated, sheared, contact zone between basalt, at 13+00 on baseline (Typical 3).
- S8 (Typical 4A) Basalt-chloritic, some massive, some sheared and easily confused with tuff, hackly fracture pattern on surface on baseline at 23+00 to 25+00.
- S9 Chloritic basalt-plus biotite plus pyrite, extremely sheared more chloritic than usual on baseline at 12+50 to 13+00.
- S10- (Typical 4B) Basalt-chloritic, pillowed, highly sheared, can't tell tops, maybe east, dip 85°, Az. 285°, on baseline at 29+00 to 29+50NW.
- S11- Chloritic pillowed basalt-slightly carbonated, baseline at 31+00 to 34+00.
- S12- Amphibolitic textured basalt-chloritic sheared west of pond.
- S13- Same as S12 with disseminated pyrite, some shearing, sample #051103, north of pond.
- S14- (Typical 2) Chloritic rhyolite disseminated pyrite north of small lake.
- S15- Quartz vein with 5% calcopyrite plus visible gold from 44" vein possibly #2 vein south of shaft.
- S16- Feldspar porphyry-sericite, quartz-feldspar to 3mm 150' west of baseline at 27+60NW (Typical 6).

Page 2 continued....

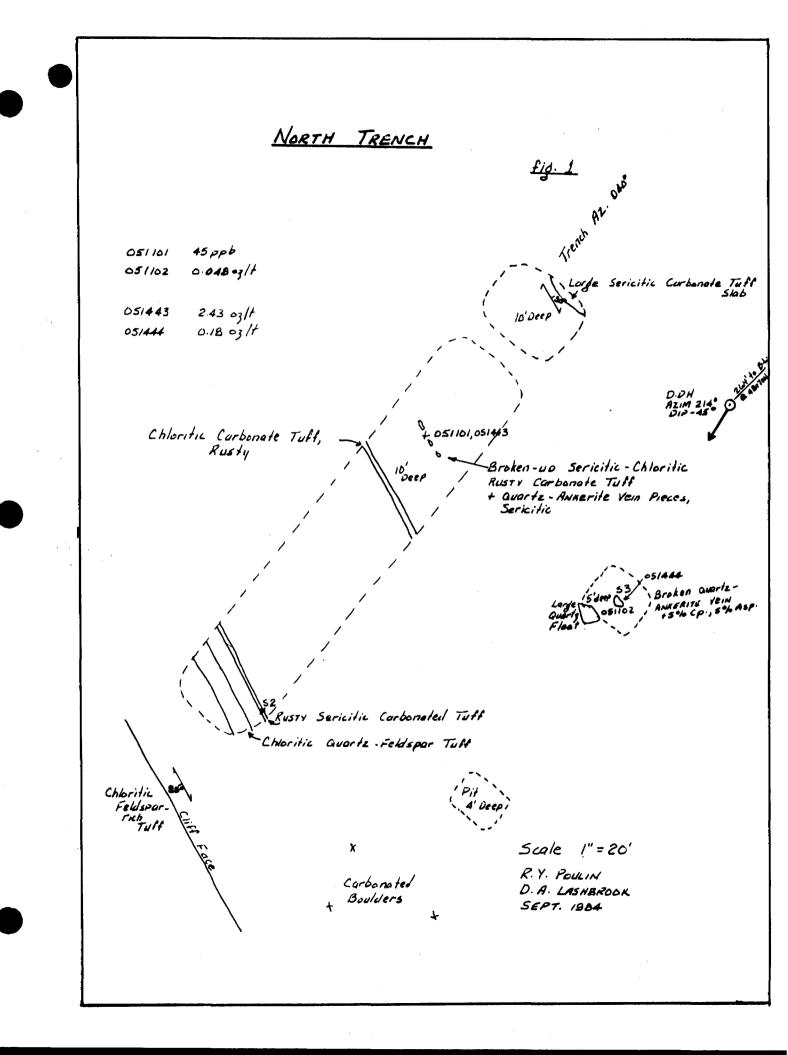
- S17- Granodiorite-typical (5) almost always sheared pink feldspar, from south trench area.
- S18- (Typical 2) Quartz, Porphyry, Rhyolite-sheared and silicified in area of south trench, wheathers snow white.
- S19- Quartz vein plus calcopyrite 5% typical of vein in south trench.
- S20- Feldspar Porphyry (Dacite?),-south end of north swamp. Mildly sheared and strongly sheared.
- S21- Porphyritic Pyroxene basalt flow,-east end of point in north swamp.
- S22- Fragmental chloritic basalt-sheared south end middle island in north swamp.
- S23- Amphibolitic Chloritic basalt-east side of south end of north swamp.
- S24- Mafic Chloritic Tuff, northeast of Bain Lake (Typical 16).
- S25- Porphyritic Rhyolite,-centre of group (Typical 2).
- \$26- Andesite-massive, northeast Bain Lake (Typical 3).

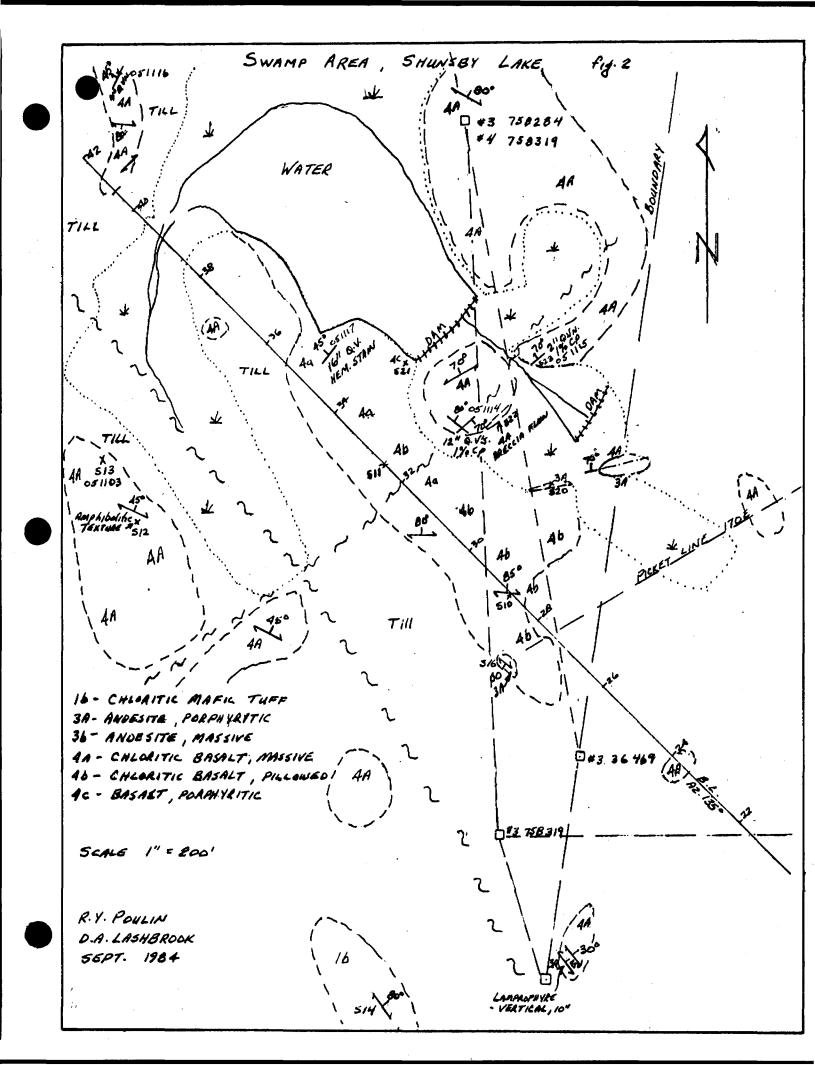
#### APPENDIX II

## OCTOBER 17th TO OCTOBER 24th, 1984

#### **REFERENCE SAMPLES**

- S27 Basalt with a radial amphibolitic pattern (komatiitic flows?) Hornblende chlorite shist.
- S28 Diabase.
- S29 Sheared basalt, chlorite amphibole rich. One plane parallel to shearing looks like mafic tuff; cross-plane to shearing, basaltic texture.
- S30 Mafic to intermediate tuff.
- S31 Intermediate to mafic tuff.
- S32 Sheared basalt (porphyritic chloritic rhyolite?).
- S33 Garnet biotite schist (felsic tuff) metamorphosed by granite batholith.
- S34 Porphyritic rhyolite.
- S35 Fresh unsheared granodiorite.
- S36 Massive andesite.
- S37 Porphyritic rhyolite.
- S38 Sheared chloritic rhyolite.
- S39 Sheared and carbonated (basalt?). Float North trench zone in fault.
- S40 Sheared and carbonated (basalt?). Fault below and west of central swamp.
- S41 Carbonated andesite (?), creek fault, float.





SOUTH TRENCH - SHUNSBY LAKE AREA fig. 3 1- PORPHYRITIC RHYOLITE 2-GRANODIORITE SCALE : 1"= 10' 051409 11/1/11 QT2VN 0511091CP. ဗင်္ဂ 20' DEEP 051407 051108(518 WATER 351408 GRAB SAMPLE 051107 44" QTZVN++CP 051405 WITH V.G. 051110 DUMP فكملاك 3.5° a (2 1/10 * CS-DUMP . 051105 1111 111 051112 1 ł l l Ţ CLAIM L ', 22176 518 Claim Post 1 051104 20 ppb 051402 לכנבת 720 051105 0.028 03/+ 051403 0.079 03 /+ 051106 617 ppb 41 ppb 951404 MINE DUMP 0.086 03/+ 051107 051405 347 ppb 0.026 03/4 051108 051406 376 ppb / / /) 0.076 03/+ 051109 0.078 03/+ 051407 051110 7.24 03/1 051408 78 ppb 051111 0.08 03/+ 0.037 03/+. 051409 0511/2 537 ppb R.Y. POULIN D. LASHBROOK SE.PT. 1984

		ANALYTICAL LABORATORIES LTD.
		HAILEYBURY. ONTARIO TEL: 672-3107
	Certific	rate of Analysis
NO. B1126-84		DATE: October 5, 198
SAMPLE(S) OF:	Rock (40)	RECEIVED: October, 198
SAMPLE(S) FROM:	Mr. Ray Lashbro Quinterra Resou	

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Sam	ple No.	Gold ppb	Gold oz.
Syla Sg3	8531	8	
s.las	9 9	11	•
Jul S	2		
		77	
GO	51101	45	
	2		0.048
	3 ·	4	
	4	20	
	5		0.028
	6	617	
. (. (.)	7		0.086
Hall L.	8		0.026
Halerow ) Patents ) Go	9		0.076
	51110		7.24 **
· · · · · · · · · · · · · · · · · · ·	1		0.080
	2	537	
	3	16	
	4	7	
$\backslash$	5	37	
\	<u>6</u> `	4	
	7.	3	
	<b>N</b> . <i>i</i>		

****** Checked

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT SEEN ADJUSTED TO COMPEN-SATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASBAY PROCESS.

· •

 E		BELL - WHIT	E ANALYTICAL LABOR	ATORIES LTD.
	$\sim$	P.O. BOX 187,	HAILEYBURY, ONTARIO	TEL: 672-3107
		Øertif	ficate of Analysis	
NO.	B1280-84		DATE	: November 5, 1984
SAMP	LE(S) OF:	Rock (52)	RECE	IVED: October, 1984

SAMPLE(S) FROM: Mr. Ray Lashbrook

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Quinterra Resources Inc.

Sample No.	Au ppb	Au oz.	Sample No.	<u>Au ppb</u>	<u>Au oz.</u>
G51401	891**		G51427	4	
2	720**		8	82	
3		0.079**	9	16	
4	41		G51430	3	
5	347		1	8	
6	376		2	11	
7		0.078**	3	18	
8	78		4	4	
9		0.037**	5	3 2	
G51410	36		6	2	
1	11		7	5	
2	7		8	26	
. 3	18		9	23	
4	40		G51440	301	
5	14		1	3	
6	167		2	4	
7	8		3		2.43 **
8	4		4		0.180**
9	11		5	153	
G51420	15		6	30	
1	14		7	16	
2	15		8	16	
3	12		9	11	
4	18		G51450	15	
5 6	4		1 2	10	
6	16		۷.	8	

** Checked

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS BPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-BATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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BELL-WHITE ANALYTICAL LABORATORIES LTD. mah

PNOTH- Halerow Patentes

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## REPORT ON THE INDUCED POLARIZATION SURVEY

## Carried Out

on the

### QUINTERRA RESOURCES INC. Sylvanite Creek Property

in

Tooms and Greenlaw Townships District of Sudbury

by

R. Middleton, P.Eng.

B. Durham, B.Sc.

Robert S. Middleton Exploration Services Inc. P.O. Box 1637 Timmins, Ontario January 8, 1985

P4N 7W8



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# APPENDIX

Scintrex IPR-8,

Phoenix IPT-1

Specifications

### INTRODUCTION

15 miles Approximately of time domain Induced Polarization surveying was carried out during October and November, 1984 by of Robert S. Middleton personnel Exploration Inc. of Timmins, Ontario as part of an ongoing evaluation of Quinterra Resources, Sylvanite Creek property. The property has recently been the subject of an intense integrated exploration effort by Quinterra Resources. This detailed IP surveying was carried out to test for sulfide mineralization and trace stratigraphy in relativelv unexplored sections of the property and also to provide more detail in some areas covered by a 1983 IP survey. The survey was successful in both objectives.

## Property, Location, and Access

The property consists of 266 unpatented mineral claims and 9 patented claims located in Tooms, Greenlaw and Halcrow Townships, 25 air-miles east-southeast of Chapleau, Ontario. Access to the property is via a network of all weather logging roads, constructed by E.B. Eddy Forest Products, that leave Highway 144 approximately 20 miles south of Gogama. The area covered by this survey is located in the east-central and east parts of the property.

## Topography and Vegetation

Higher areas of the property typically consist of sandy overburden, forested with jackpine and lesser spruce and poplar. Low lying swampy areas and creek beds are forested

- 1 -

with a mixture of black spruce, cedar and alders.

#### Previous Work

No integrated exploration program had been undertaken to search for gold mineralization until the aquisition of the property by Quinterra Resources, Ltd.

Since acquiring the property, Quinterra have actively successfully) explored (and the property for gold mineralization. This active. integrated program has included; ground magnetometer and VLF surveys, airborne magnetometer and VLF surveys, reconnaissance IP surveying, overburden sampling using a backhoe, overburden sampling using a drill system and 23 diamond drill holes.

## GENERAL GEOLOGY

Ontario Department of Mines Geological report 63 (Donavan, J.F., 1968) indicates that the majority of the property is underlain by a suite of intermediate to mafic metavolcanic rocks with minor amounts of iron formation and conglomerate near the common boundary with the Hotstone Minerals Ltd. property.

Work by Quinterra has shown that highly altered ultramafic rocks and symplet intrusives are also present on the property.

#### SURVEY PROCEDURE, STATISTICS, AND INSTRUMENTATION

The Induced Polarization survey was carried out using a Scintrex IPR-8 receiver and Phoenix IPT-1 2KVA a "a" spacing of 100 feet was selected for transmitter. An this survey. Three dipoles (n=1,2,3) were read on all lines at 100 foot stations. A pole-dipole array was used giving a theoretical penetration of up to 175 feet with three dipoles.

A 2 second "on", 2 second off, square wave pulse was transmitted into the ground via steel stake electrodes and the voltage readings were obtained via porous bottomed pots filled with copper sulphate solution. The time window over which the voltage was recorded was 650 milliseconds to 1170 milliseconds after the shut off of the pulse. This mean of the M32 time "window" is 910 milliseconds after the shut off of the pulse.

Specifications for the IPR-8 receiver and the Phoenix IPT-1 transmitter are included in the appendix of this report.

Lines which were to be covered by the survey were selected by Quinterra Resources Ltd.

The survey which was conducted between October 15 and November 9, 1984 and was carried out by J. Scott, R.Marvin, R.Lavoy and R.Boyce.

A total of 1959 readings were taken at 679 stations in

- 3 -

the course of survey.

#### INTERPRETATION

Four main anomalous zones were outlined in the areas surveyed during this program. Two of these areas was covered by the previous survey. Although the two IP surveys were carried out by different people using different equipment in a different array, the results are comparable.

Some of the anomalies defined by the earlier survey were not covered by this program and therefore no comment is made as to their cause. Chargeability and resistivity value increases were noted in similar locations to some of those areas indicated to be anomalies in the earlier survey, although most are not considered to be due to the presence of sulfides (and/or graphite). Anomalies B, D, G and H from the earlier survey were verified and in the case of D and G, covered in more detail.

Anomaly I (D from the previous survey) is well defined on all lines and appears to be covered by less than 50' of overburden. The axis of the anomaly is estimated to be 2200N on line 54E, 1925N on line 58E, 1800N on line 62E and 1700N on line 66E. On line 62E the zone may consist of two or more parallel zones between 1650N and 2200N. The maximum chargeability values appear to range between three and five times background on all lines.

Anomaly II was trace over a strike length of 1200' from

3800E to 5000E just south of tie line 4000N. The line estimated axis of the anomaly on each line is as follows: line 38E, 4000N; line 42E, 3900N; line 46E, 3850N; line 50E, 3700N. The source of this anomaly, as in the case of anomaly I, is estimated to be covered by less than 50 feet of overburden. This anomaly is typified by chargeability 2-3 times background and resistivity values values of than the surrounding rocks, particularly somewhat lower those to the north which are generally in the range of 10,000 ohm-meters.

Anomaly III, which corresponds to anomaly G of the initial survey was defined over a strike length of 1000 feet between line 28E and line 38E. As in the case of the initial survey, the anomaly is somewhat hard to decipher due to the high background chargeability and resistivity values associated with an area of shallow overburden immediately south of the anomaly. The anomaly axis is estimated to be at 3100N on line 28E, 3100N on line 30E, 3250 on line 34E (anomaly is broad and ill defined), and 3300N on line 38E. The zone has a weak to moderate corresponding resistivity low on all lines.

The broad zone of high resistivity and chargeability values which extend from line 10E to line 38E, south of anomaly III, appears to reflect the presence of a particular rock unit or a style of alteration rather than the presence of significant sulfide mineralization. Overburden along the

- 5 -

zone is thought to be quite shallow.

Anomaly IV was detected under shallow overburden on all three lines which were covered near the southeast boundary of the property. Chargeability and resisitivity values indicate a near surface zone up to 100 feet in width containing heavy accumulations of pyrite, graphite, magnetite or some such material.

Resisitivity values indicate that the zone is likely a conductor. The axis of the anomaly is located at 3300S on line 183E; 3250S on line 187E and 3150S on line 191E.

The data from line 40E is difficult to decipher although it is apparent that a contact occurs near 100N and also near 100S. It may be that there is a near surface accumulation of sulfide or graphite mineralization somewhere between 0 and 150N although rock type contrast may account for the increase in chargeability values.

The line 92E profile shows anomalous chargeability values in 3 locations; one area with an axis at approximately 750N (which corresponds to anomaly B of the earlier survey), a second near 1400N and the third area at the north end of the part of the line covered (near 19N). While the most southerly is probably due to sulfide and/graphite mineralization in bedrock it is questionable if the other two are.

- 6 -

### CONCLUSIONS AND RECOMMENDATIONS

The Induced Polarization survey which is the topic of this report corroborated the data obtained in the first IP survey and provided more detail about some of the anomalous zones. The was also successful in outlining survey anomalies in areas not covered in the initial survey. Results of the survey indicate that overburden cover in the entire area is quite shallow and therefore continued use of an integrated exploration program is recommended.

Respectfully Submitted,

ARED PROFESSION 4. R. OL INCE OF DUTA R.S. Middleton, P.Eng.

Sruce Kinken

R.Bruce Durham, B.Sc.

## REFERENCES

Donovan, J.F. 1968 Geology of Halcrow - Ridout Lakes Area (GR-63).

1984 Quinterra Resources Annual Report.

Map 2241 - Chapleau Foleyet Geological Compilation Series, 1" to 4 miles.

#### CERTIFICATION

w?

I, Robert S. Middleton, P.Eng., of 136 Cedar Avenue South, in the City of Timmins, Province of Ontario, certify as follows concerning my report on the property of Quinterra Resources Inc., dated January 8, 1985.

- 1) I am a member in good standing of:
  - a) Geological Association of Canada (FGAC)
  - b) The Association of Professional Engineers of Ontario
  - c) European Association of Exploration Geophysicists
  - d) Society of Exploration Geophysicists
  - e) Canadian Institute of Mining and Metallurgy
- I am a graduate of the Michigan Technological University, Houghton, Michigan, U.S.A. with a B.S. degree in Applied Geophysics obtained in 1968, and an M.S. degree in Geophysics in 1969.
- 3) I have been practising my profession in Canada, occasionally in the United States, Central America, Europe and South Africa for the past 16 years.

Dated this January 8, 1985 TIMMINS, Ontario PROFESSIONAL Middleton . 0 . 1 С. OLINCE OF OWTAP Robert S. Middleton, P.Eng.

#### CERTIFICATION

I, R. Bruce Durham of Timmins, Ontario certify that:

- 1. I am a graduate of the University of Western Ontario having obtained a Bachelor of Science degree in Geology in 1976.
- 2. I have been practising my profession primarily in Canada since 1976.
- 3. I have no direct or indirect interest in the properties, leases, or securities of Quinterra Resources Inc., nor do I expect to receive any.

Dated this January 8, 1985, at Timmins, Ontario.

Bruce Aule

R.Bruce Durham, B.Sc.

<u>A P P E N D I X</u>

# IPR-8

Induced Polarization Time Domain Receiver

The basic equipment required for an Induced Polarization survey consists of a transmitter, a receiver, wire and electrodes.

Host time domain induced polarization transmitters transmit square waves with equal "on" and "off" times. Polarity is automatically changed between the pulses. The waveform shown in Figure 1 indicates how the current is usually transmitted. The pulse times usually range from T = 1 to 8 seconds.

The transmitter is powered by batteries (portable type units) or a motor driven generator. Scintrex manufactures various time domain induced polarization transmitters ranging in power from 250 watts to 15 kw. The choice of a transmitter depends on various factors such as: the electrode spacings to be employed, contact resistance and the resistivity of the sub-surface. The IPR-8 receiver is designed for use with any time domain induced polarization transmitter.

The IPR-8 time domain induced polarization receiver is packaged in a rugged and portable manner. Using integration and automatic normalization, it measures the characteristics of an induced polarization decay curve set up by overvoltage and other effects occurring in rocks. When induced polarization effects (such as due to metallic-nonmetallic interfaces in rocks) occur, the waveform received at the receiver is not the same square wave as transmitted by the transmitter. The waveform shown in Figure 2 indicates the sort of wave distortion which is caused by the induced polarization phenomena.

#### 2. Specifications

The IPR-8 has the following specifications:

Input Impedance	3 megohas
Input, Impedance	- megonus
Primary Voltage (Vp) Range	300 microvolts full scale to 40 volts full scale in 10 ranges
Accuracy of Vp Heasurement	±3% of full scale
Vs/Vp Ranges	20 and 100 mV/V full scale
Vs/Vp Accuracy	±3% of full scale
Primary SP Buckout Range	±l volt
Accuracy of SP Measurement	±37, ±5 mV
Automatic SP Tracking Range	6 x Vp, maximum ±1 volt
Continuity Heter Reading	0 - 500 k ohms
50 or 60 Hz Powerline Rejection	-50 db (300x)*
Low Pass Filter	6 db/octave with fc = 20 Hz and 12 db/octave with fc = 36 Hz
Required Stability of Transmitter Timing	Need only exceed measuring program selected (1 or 2 seconds)
Operating Temperature Range	-30°C to +60°C
Dimensions	320 mara x 135 mm x 160 mata
Weight, Complete with Lid and Batteries	3.6 kg
Power Supply	4 D cells - Eveready No. 1050 or equivalent; estimated battery life months intermittent duty at 25°C. elkaline cell Eveready No. E91 or

21

equivalent; estimated life 1 year



# Variable Frequency, Time Dom: and Phase IP Transmitter

Reliable: Backed by twenty years experience in the design and worldwide operation of induced polarization and resistivity equipment

Versatile: Can be used for resistivity, variable frequency IP, time domain IP or phase angle IP measurements

Stable: Excellent current regulation

Lightweight, portable

Wide selection of power sources

Low cost

# pecifications

			· · · · · · · · · · · · · · · · · · ·			
owerSources	Internal DC power module containing 8 45V dry cell batteries, or internal AC power module with external 1 KVA, 2 KVA pr	· · ·	DC POWER MODULE (BPS-1)			
nmeter Ronges	3 KVA motor generator. : 30 mA, 100 mA, 300 mA, 1A, 3A and 10A full scole.	Output Voltage	: Bx 45V dry cell batteries (Eveready 482, Mollory 202 or equivalent) are switched in series or parallel to provide output voltag of 9DV, 180V, and 360V.			
er Display	A meter function switch selects the display of current level, regulation status, input frequency, output voltage, control battery voltage of line voltage.	Output Power	Recommended maximum output power is 30 watts. Absolute maximum output pow is 100 watts.			
rrent Regulation	* The change in output current is less than 0,2% for a 10% change in Input voltage or electrode impedance.	Bottery Life	: Normal field operation, with law autput paw results in an average battery life expectancy one month. Operation with the absolute			
iput Woveform	: Either DC, single frequency, two frequencies simultaneously, or time domain (50% duty		moximum output power results in much sho battery life.			
	cycle). Frequencies of 0.078, 0.156, 0.313, 1.25, 2.5, and 5.0 Hz are standard, whereas 0.062, 0.125, 0.25, 1.0, 2.0, and 4.0 Hz are optionally available. The simultaneous	Control Supply	¹ ² ⁴ x 6V lontern batteries (Evereody 409, Moll 908 or equivalent) connected in series/poro are used to provide the 40 to 70 mA required the control circuitry. Average battery life			
	transmission mode has 0.313 and 5.0 Hz as standard, whereas 0,156 and 2.5 Hz are	•	expectancy is six months.			
quency Stability	optional. : <u>+</u> 1% from -40° to + 60°C is standard. A	Operating Temperature	: 0°C to + 60°C.			
	precision time base is optionally available for coherent detection and phase IP measurements.	1	AC POWER MODULE (AC-3)			
tection	: Current is turned off outomotically if it exceeds 150% full scale or is less than 5%	Output Voltage	: 0V, 75V, 150V, 300V, 600V and 1200V.			
	full scole.	Oulput Power	: Maximum continuous output power is 3 k This requires the 3KVA motor generator,			
5 <b>0</b>	: Non-conductive, high impact resistont plastic.	1 10-1 -				
nensions	: 20 x 40 x 55 cm (9 x 16 x 22 inches).	Input Power	: 350 to 1000 Hz, 60V (45V to 78V) 3 phase is standard. 120V (90V to 156V) and/or single			
ight	:14 kg (31 lb) with DC power module. 16 kg (35 lb) with AC power module.		phose may be link selected inside the module			
ndord Accessories	: Pockfrome, monual. At least one of the two	Current Regulation	: Achieved by leedback to the olternator of the motor generator unit.			
	possible power modules is required. The AC	Operating Temperature	:-40°C 10 + 60°C.			
	power module in turn requires one of the external IKVA, 2KVA or 3KVA motor generators and a connecting coble.	Thermol Protection	: Thermostat turns off at 65°C and turns back i at 55°C internal temperature.			



# PHOENIX GEOPHYSICS LIMITED

Geophysical Consulting and Contracting, Instrument Manufacture, Sale and Lease,

# CONTOURED, PROFILED DATA IN PSEUDOSECTION FORM

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L	6E	2200N	-	3700N
L	8E	2200N	-	3700N
$\mathbf{L}$	10E	0	-	3700N
L	12E	0	-	3700N
L	14E	0	-	3500N
L	16E	0	-	3300N
$\mathbf{L}$	18E	0	-	3300N
L	20E	0	-	2900N
L	22E	0	-	3900N
L	24E	1900N	-	3900N
$\mathbf{L}$	26E	1800N	-	3900N
L	28E	2100N	-	3300N
L	30E	1600N	-	3900N
L	34E	1400N	-	3900N
L	38E	1400N	-	4200N
$\mathbf{L}$	40E	600S	-	600N
L	42E	2100N	-	4300N
$\mathbf{L}$	46E	2200N	-	4200N
L	50E	2300N	-	3900N
L	54E	1400N	-	3100N
L	58E	1400N	-	2700N
L	62E	1400N	-	2200N
L	66E	1400N	-	3800N
$\mathbf{L}$	70E	2000N	-	3900N
$\mathbf{L}$	74E	2000N	-	3100N
L		500N	-	1900N
L	88E	400N	-	1900N
L		400N	-	
	183E	2000S	-	4400S
	187E	2000S	-	3900S
L	191E	2000S	-	3800S

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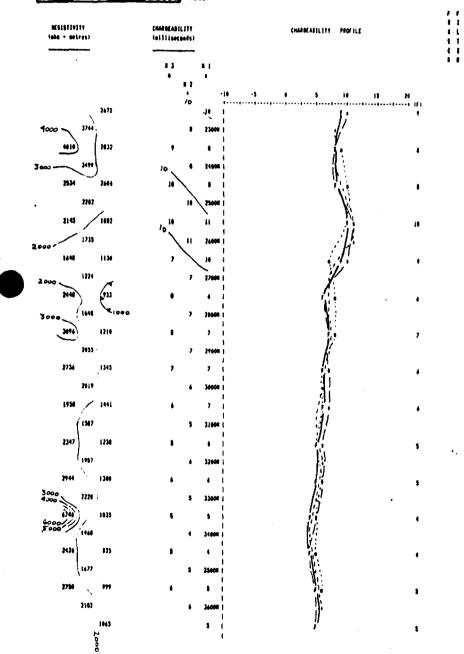
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LINE 2 E



Date of Survey : 10/21/84 Operator : RM Receiver : Scintrex IPR-9 Transmitter : Phoenix IPT-1 2.0 KVA A Spacings Read : 1 TO 3 Electrode Array : Pole - Dipole Mode : Time Domain Pulse Time : 2 Sec On 2 Sec off Delay Time : 400 mg Integration Time : 450 mg

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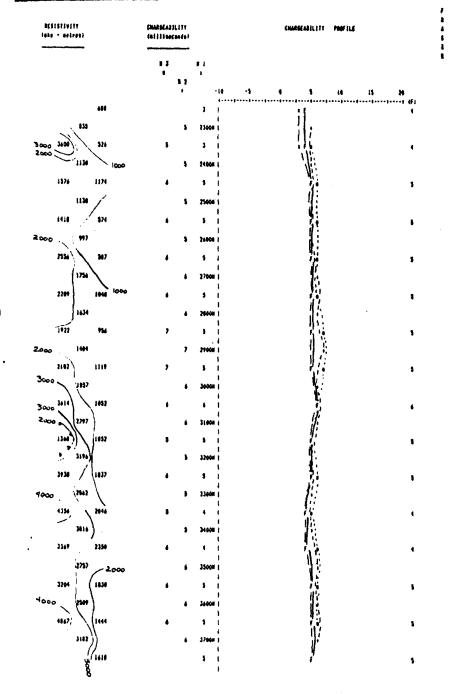


LINE 6 E

Property : BYLVANITE CREEK

of Survey I 10/20/84 Operator 3 RM Receiver I Scintrex IPR-S Transmitter I Phoenix IPT-1 2.0 KVA A Spacing J 100 P N Spacings Read 1 1 TO 3 Electrode Array : Pole - Dipole Mode : Time Domain Pulse Time I 2 Sec on 2 Sec off Delay Time I 400 ms

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NERSERANDERT 6. MIDDLETON Robert 6. Middleton Exploration Services Inc.

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LINE .

Property : SYLVANITE CREEK Client : BUINTERRA Date of Survey : 10/20/84 Operator : RM Receiver : Scintrex IPR-8 Transmitter : Phognix IPT-1 3.0 KVA A Spacings Read : 1 TO 5 Electrode Array : Pole - Dipole Made : Time Domain Pulse Time : 2 Sec on 2 Sec.off Delay Time : 450 ms

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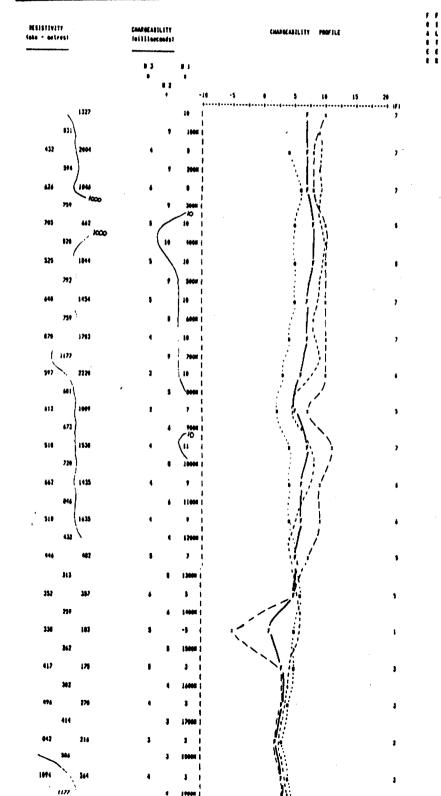
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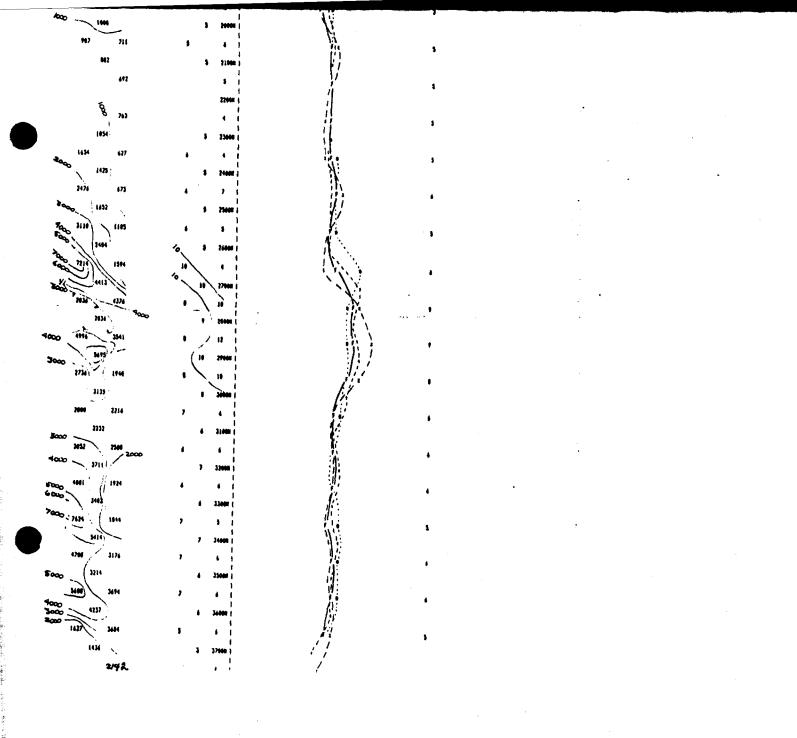
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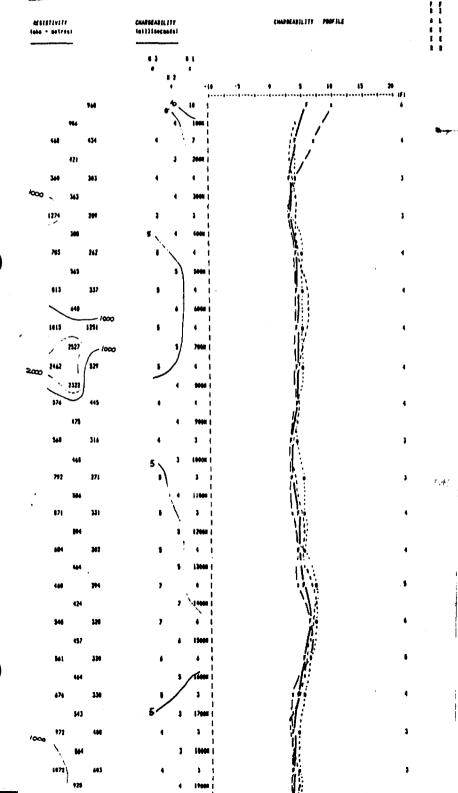
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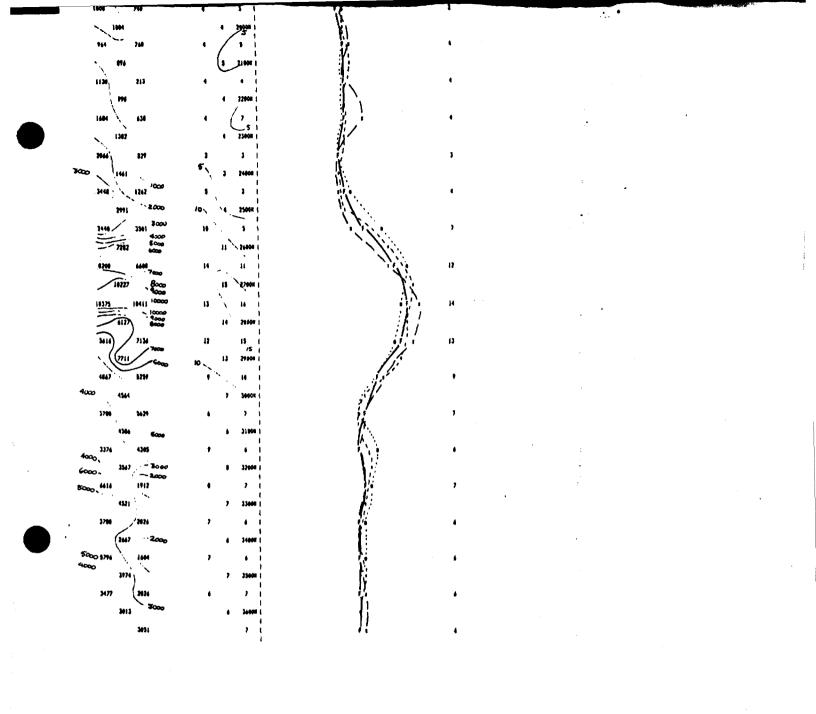
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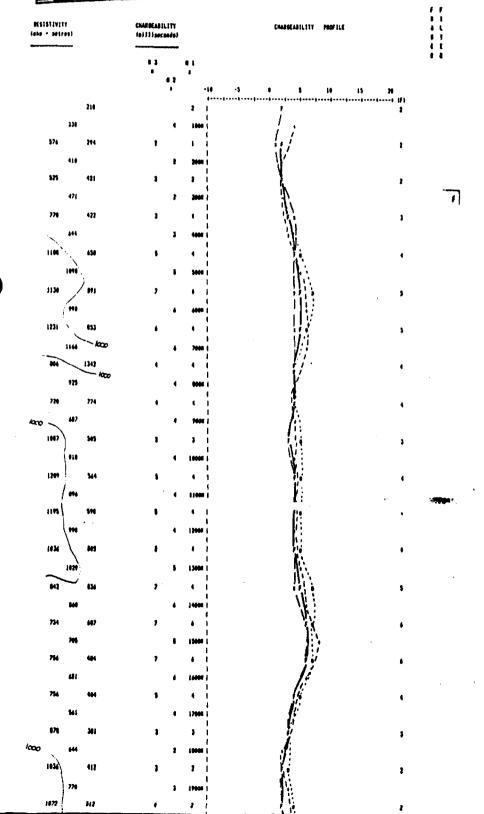


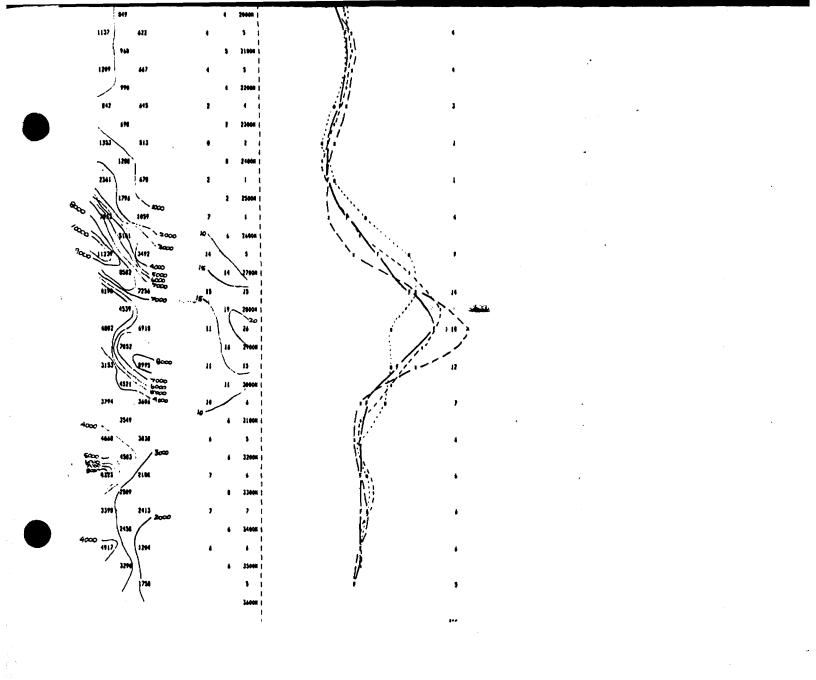
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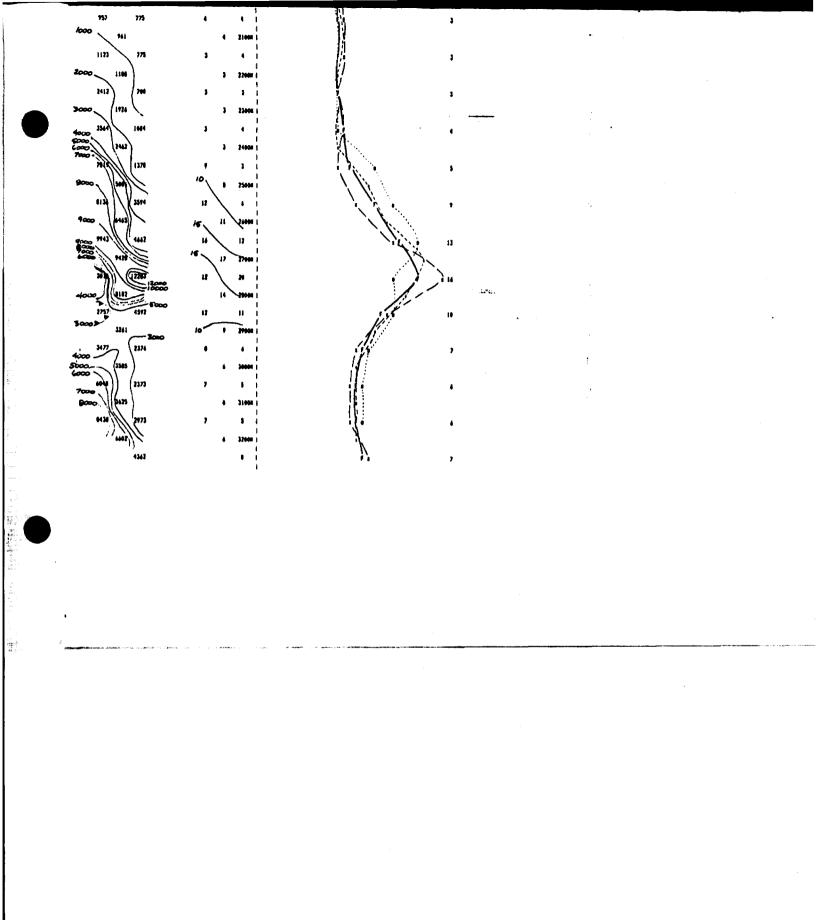
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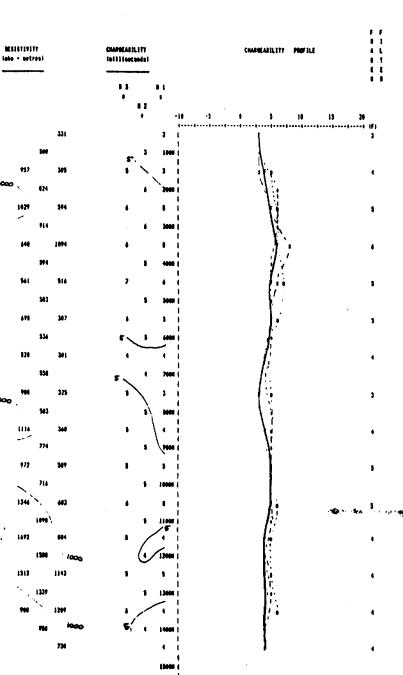
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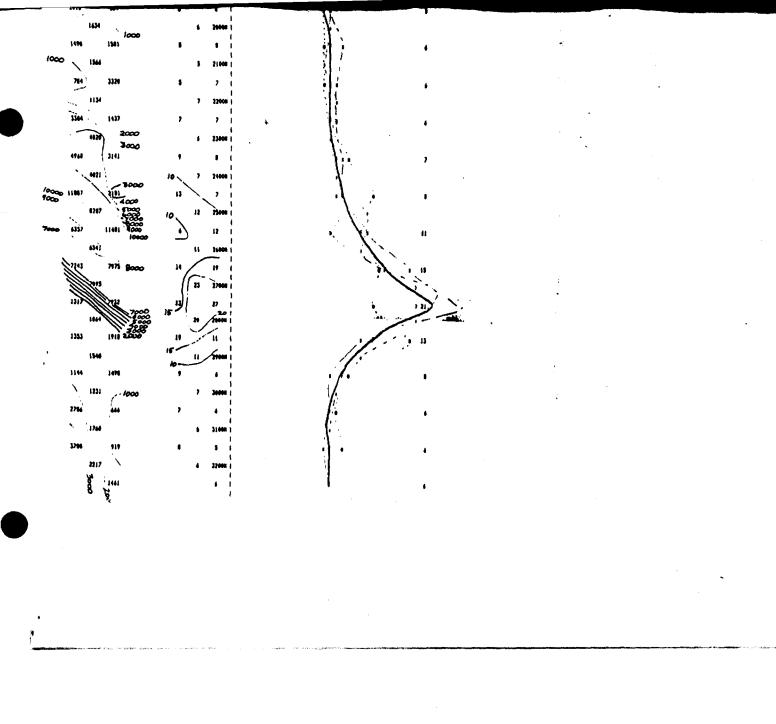
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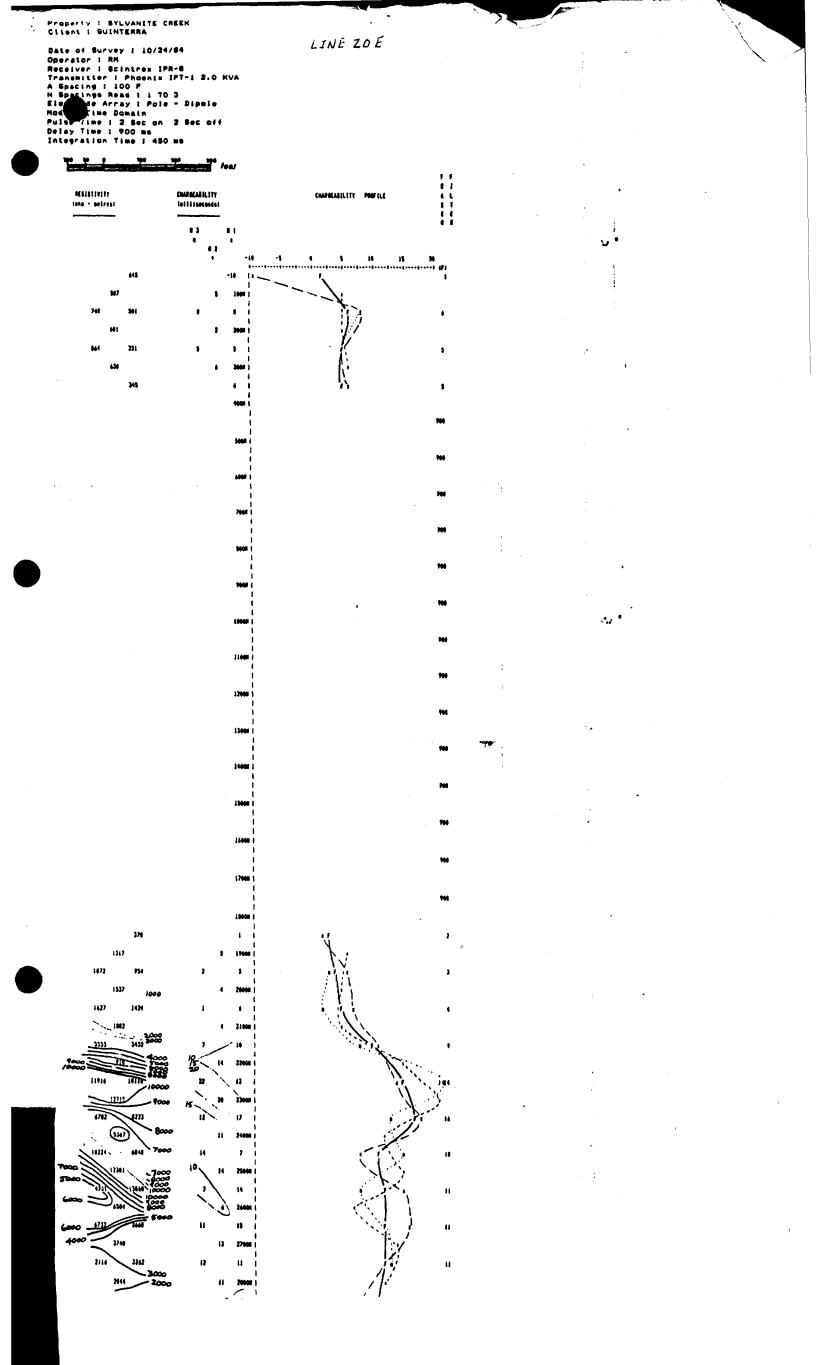
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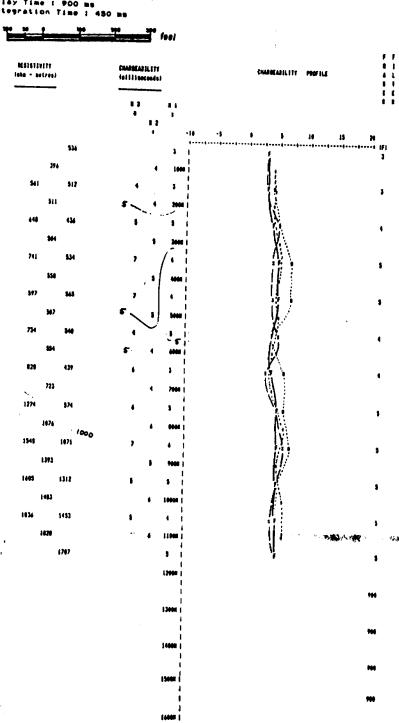


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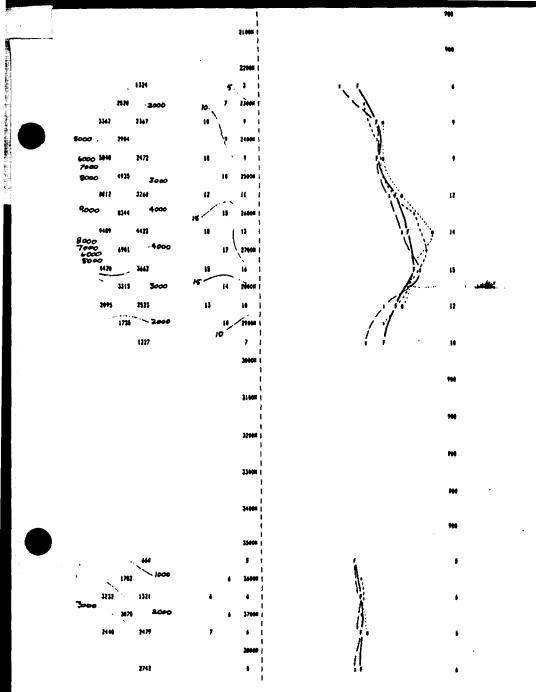
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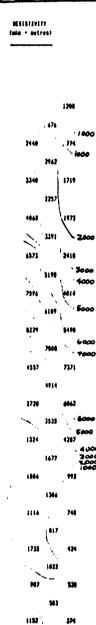


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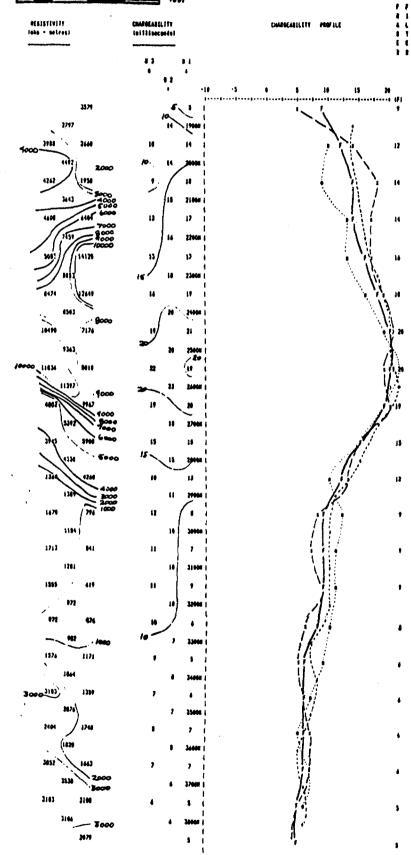
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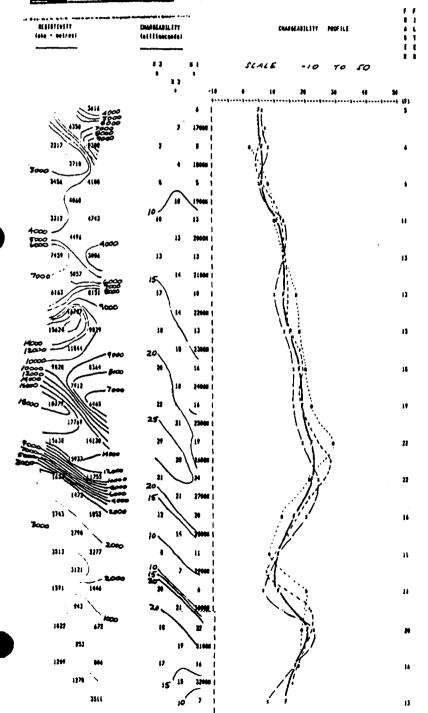
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Date of Survey 1 4/25/84 Operator : RM Receiver : Scintrex IPR-8 Transmitter : Phoenix IPT-1 2.0 KVA A Spacing : 100 F N Spacings Read : 1 TO 3 Electrode Array : Pole - Dipole Mode : Time Domain Pulse Time : 2 Sec on 2 Sec Dif Delay Time : 900 ms Integration Time : 430 ma

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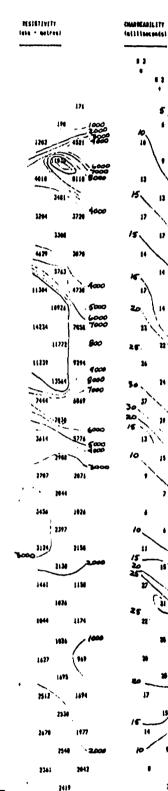
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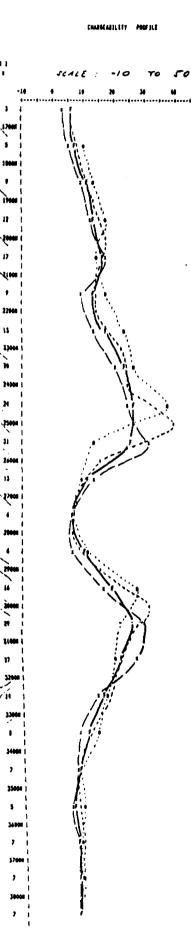
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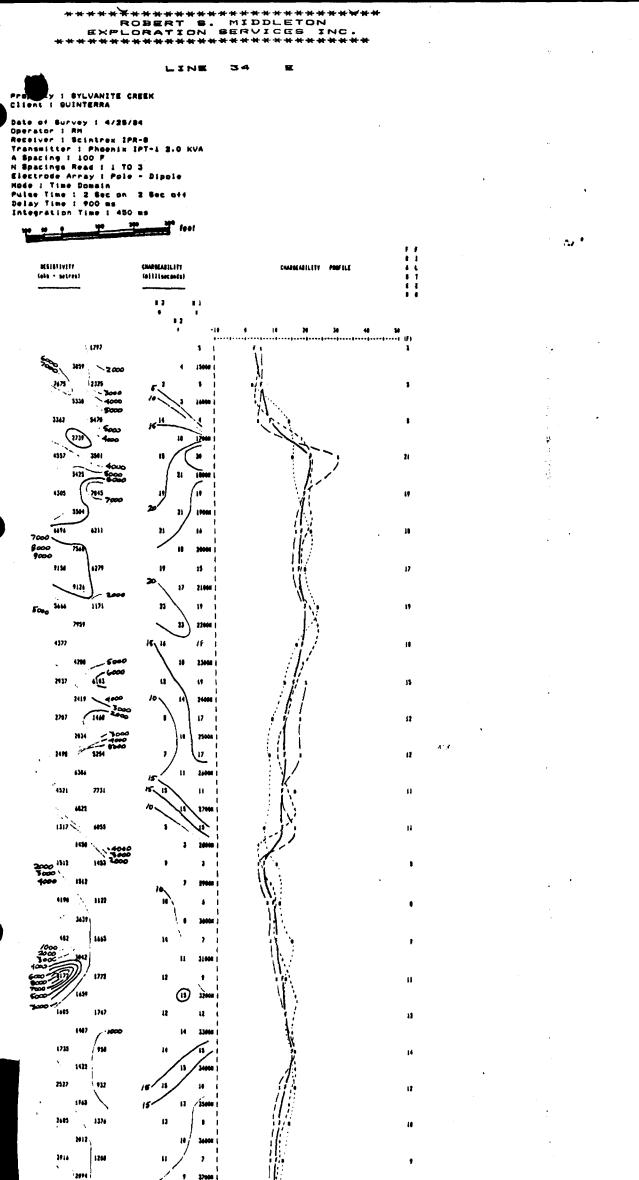
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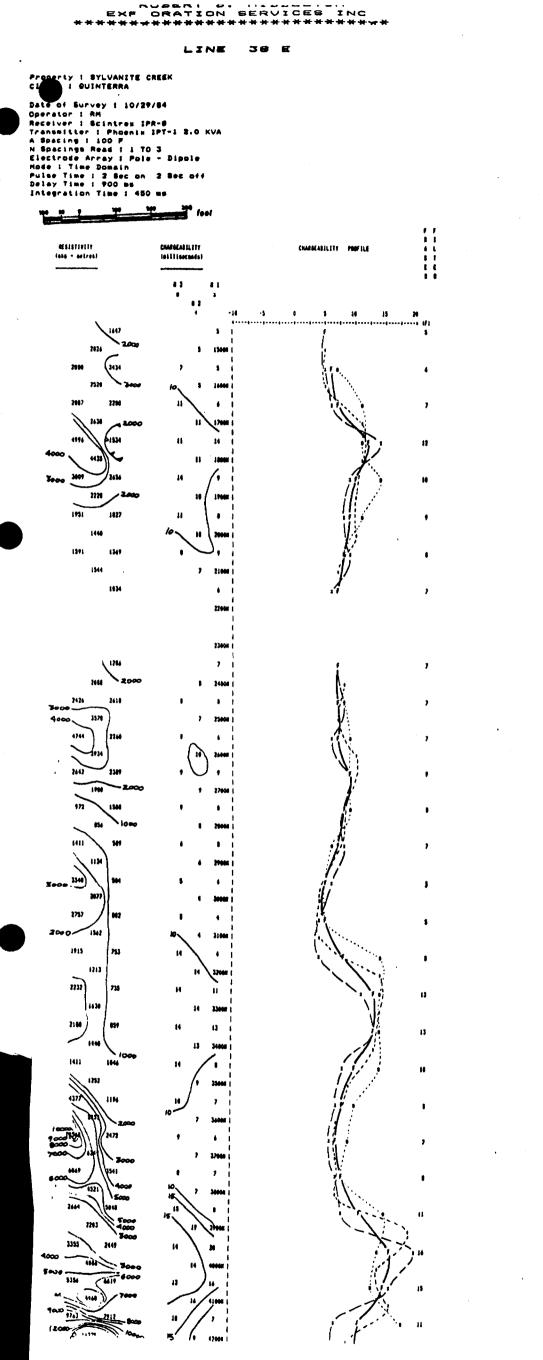
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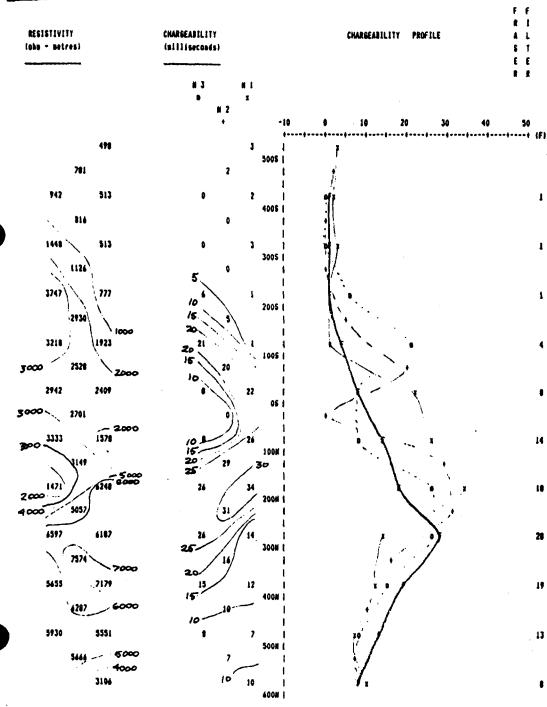
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Property : SYLVANITE CREEK lient : GUINTERRA Date of Survey : 11/20/84 Operator : RM Receiver : Scintrex IPR-8 Transmitter : Phoenix IPT-1 2.0 KVA A Spacing : 100 F N Spacings Read : 1 TO 3 Electrode Array : Pole - Dipole Mode : Time Domain Pulse Time : 2 Sec on 2 Sec off Delay Time : 900 ms Integration Time : 450 ms





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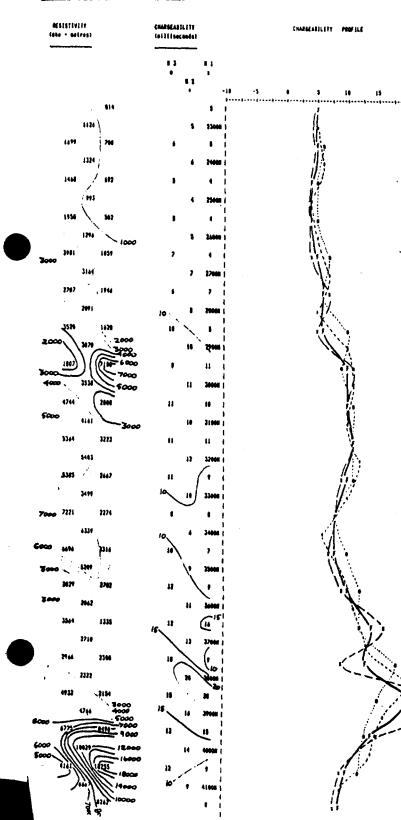
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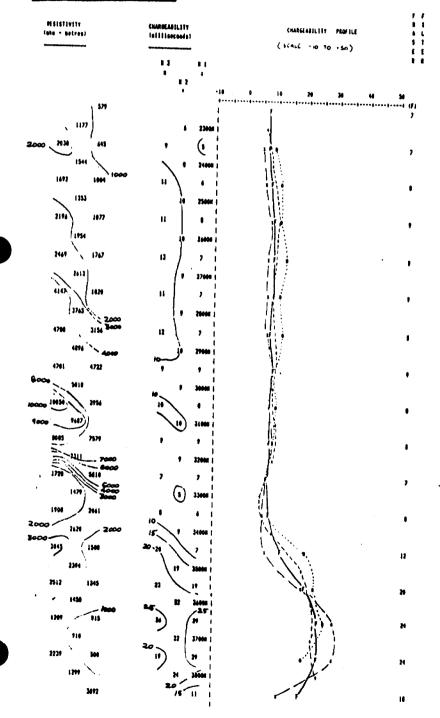
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#### Property : SYLVANITE CREEK Client : GUINTERRA

Date of Survey 1 10/20/84 Operator : RM Receiver : Scintrex IPR-0 Transmitter : Phoenix IPT-1 2.0 KVA A Spacing: 100 P N Spacing: Read : i TO 3 Electrode Array : Pole - Dipole Mode : Time Domain Pulse Time : 2 Sec on 2 Sec 044 Delay Time : 400 ms Integration Time : 430 ms

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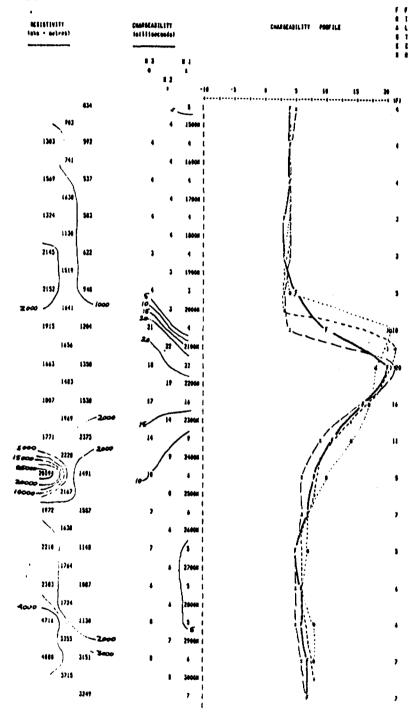
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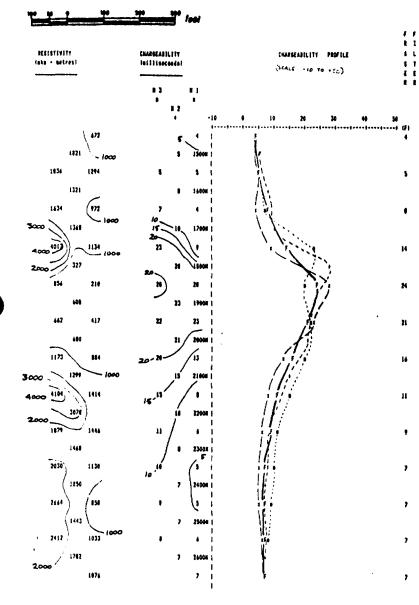
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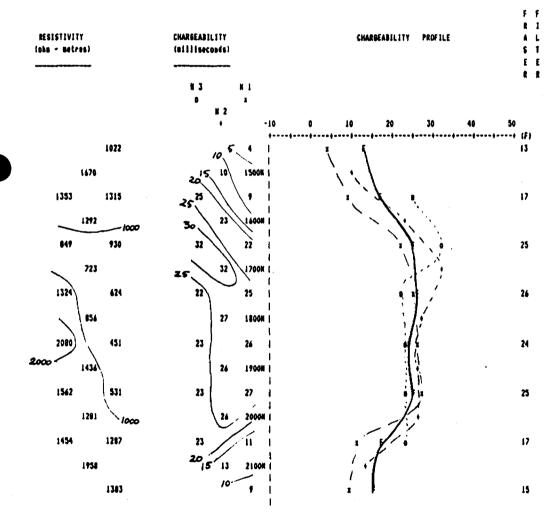
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Property : SYLVANITE CREEK Client : GUINTERRA

Date of Survey : 10/29/84 Operator : RM Receiver : Scintrex IPR-8 Transmitter : Phoenix IPT-1 2.0 KVA A Spacing : 100 F N Spacings Read : 1 TO 3 Electrode Array : Pole - Dipole Mode : Time Domain Pulse Time : 2 Sec on 2 Sec off Delay Time : 900 ms Integration Time : 450 ms





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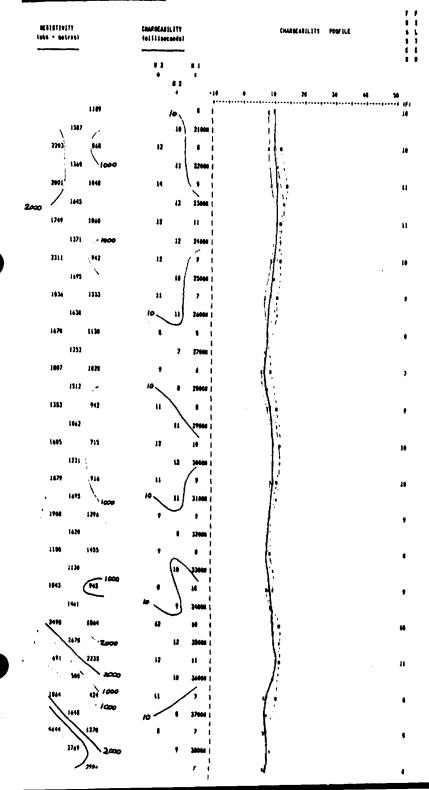
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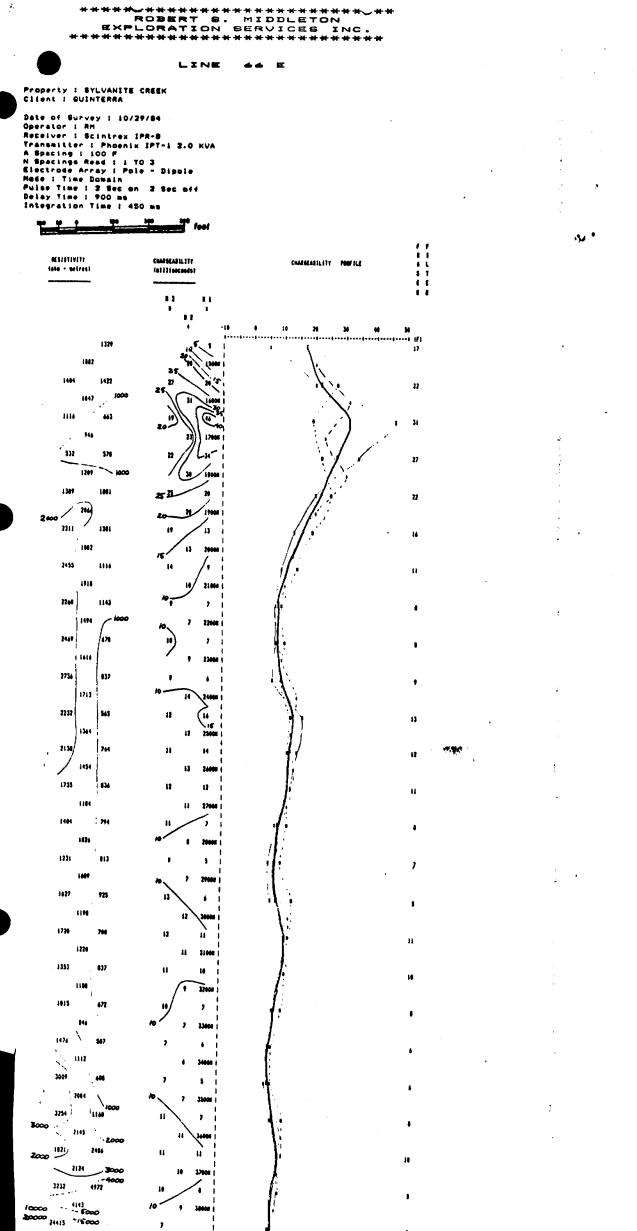
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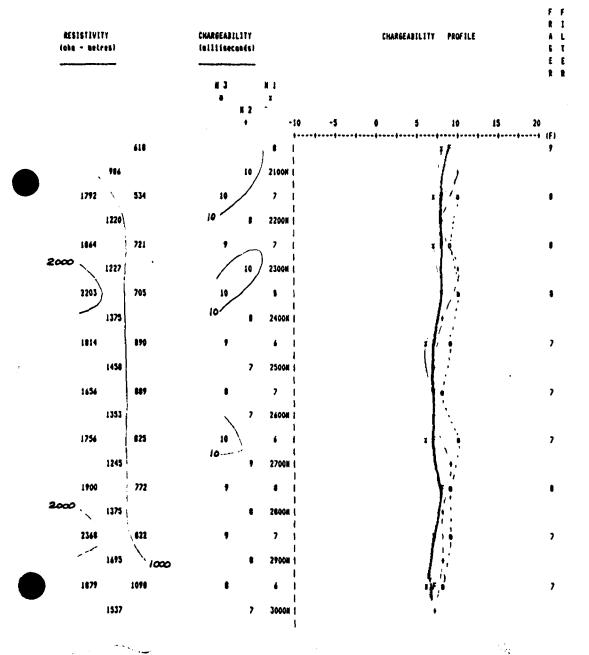
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Property : SYLVANITE CREEK Client : QUINTERRA

Date of Survey : 10/29/84 Operator : RM Receiver : Scintrex IPR-8 Transmitter : Phoenix IPT-1 2.0 KVA A Spacing : 100 F N Spacings Read : 1 TO 3 Electrode Array : Pole - Dipole Mode : Time Domain Pulse Time : 2 Sec on 2 Sec off Delay Time : 900 ms Integration Time : 450 ms

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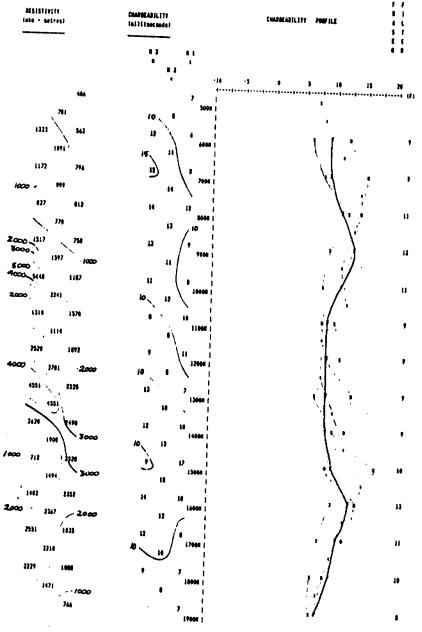
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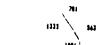
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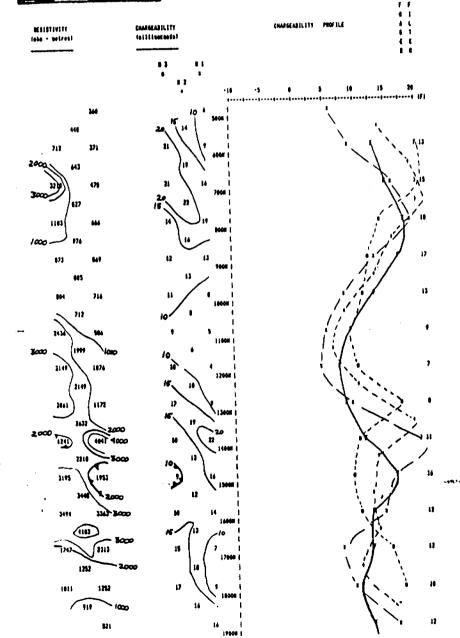


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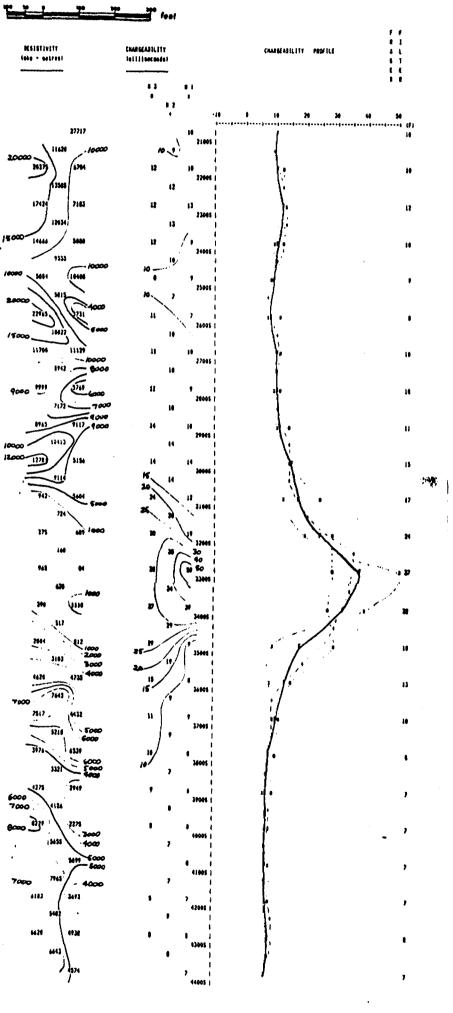


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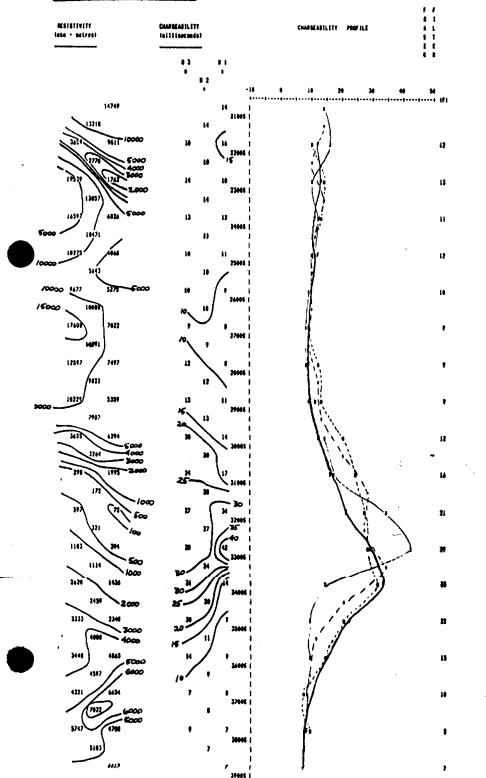
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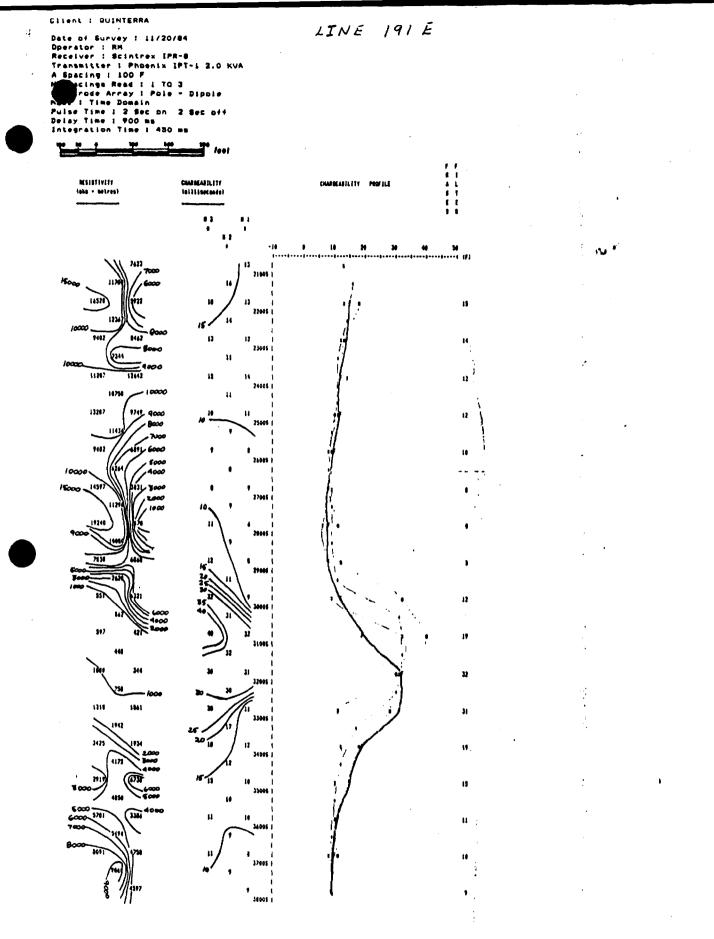
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#### **1984 ASSAY RESULTS**

Bell - White ANALYTICAL LABORATORIES LTD.

P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

# Certificate of Analysis

NO.	B31	-85	)
-----	-----	-----	---

**DATE:** January 11, 1985

SAMPLE(S) OF: Core (3)

RECEIVED: December, 1985

SAMPLE(S) FROM:

Mr. Ray Lashbrook Quinterra Resources Inc.

PN -074

Sample No.	Copper ppm	Zinc ppm
051359	380	3150 760-84-2
051360	610	3150 $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$ $3150$
05161	1040	



ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

#### BELL-WHITE ANALYTICAL LABORATORIES LTD.

Bell - White	ANALYTICAL	LABORATC	RIES LTD.
P.O. BOX 187.	_	TARIO TEI	L: 672-3107
1.4	· · · · · · · · · · · · · · · · · · ·	4	

# Certificate of Analysis

NO.	B 3	] -	85
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DATE: January 11, 1985

SAMPLE(S) OF: Core (3)

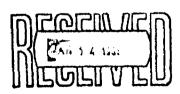
RECEIVED: December, 1985

SAMPLE(S) FROM:

Mr. Ray Lashbrook Quinterra Resources Ir.c.

PN 074

Sample No.	Copper ppm	Zinc ppm
051359	380	3150 3 50-84-2
051360	610	3150 2 5C-84-2 1900 5
05161	1040	



RDANCE WITH LONG-ESTABLISHED NORTH CUSTOM, UNLESS IT IS SPECIFICALLY STATED GOLD AND SILVER VALUES REFORTED ON 'S HAVE NOT BEEN ADJUSTED TO COMPEN-SEES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD.

PCR.A



Bell - White analytical laboratories LTD.

P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

## Certificate of Analysis

N ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS. BELL-WHITE ANALYTICAL LABORATORIES LTD.

Pan file.



NO.

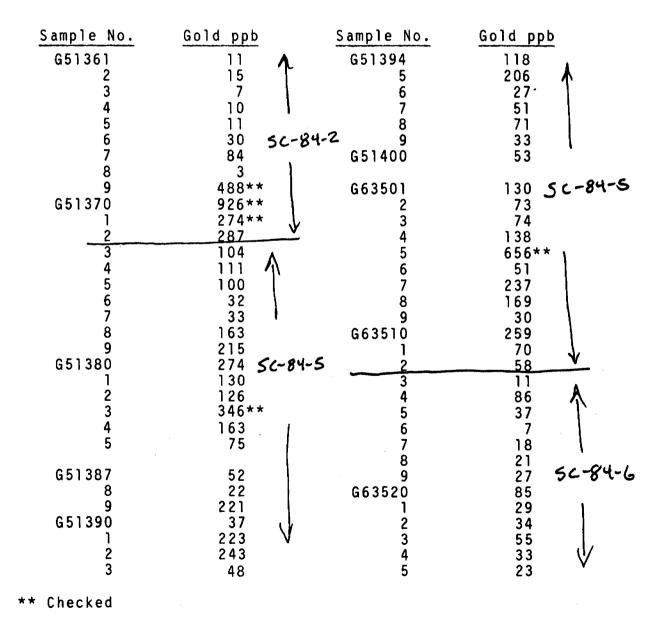
Bell - White ANALYTICAL LABORATORIES LTD.

HAILEYBURY, ONTARIO TEL: 672-3107 P.O. BOX 187.

## Certificate of Analysis

Page 2 of 2 B25-85 DATE: January 9, 1985 Core (129) January, 1985 SAMPLE(S) OF: RECEIVED: Mr. Ray Lashbrook SAMPLE(S) FROM:

Quinterra Resources Inc.



SYLVANITE CK.

V ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSEG AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

#### BELL-WHITE ANALYTICAL LABORATORIES LTD.



Bell - White analytical laboratories LTD.

P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

## Certificate of Analysis

NO. B1443-84

DATE: December 11, 1984

SAMPLE(S) OF: Rock (14)

RECEIVED: Dec. 5, 1984

SAMPLE(S) FROM: Mr. D. G. Innes D. G. Innes and Associates Ltd.

Sylv. Ck

Sample No.	Gold ppb	
G51022	373**	
3	85	Gracs from
4	73	Gracs from Trenches
5	115	
6	62	(
7	33	148E
8	5	L 48E 3GN
9	15	> 36N
G51030	103	
1	8	
2	48	
3	51	
4	223	
5	58	

** Checked

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-SATE FOR LOSSES AND GAING INHERENT IN THE FIRE ASSAY PROCESS.

BELL-WHITE ANALYTICAL LABORATORIES LTD. flan

		Bell - White	ANALYTICAL LABOR	ATORIES LTD.
		P.O. BOX 187,	HAILEYBURY, ONTARIO	TEL: 672-3107
• •		Øertifi	cate of Analysis	
NO.	B1374-84		DATE:	November 23, 1984

	Sample No.	Gold ppb
	G51163	2
Sulu Ck	4	77
Sylv. Ck. 13N 074	5	3

Quinterra Resources Inc.

ACCORDANCE WITH LONG ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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SAMPLE(S) OF: Rock (7)

SAMPLE(S) FROM:

#### BELL-WHITE ANALYTICAL LABORATORIES LTD.

November, 1984

RECEIVED:

PER

	Bell - WHITE ANALYTICAL LABORATORIES LTD.		
	$\sim$	P.O. BOX 187, HAILEYBURY, ON	TARIO TEL: 672-3107
		Certificate of Ana	lysis
NO.	B1309-84		DATE: November 9, 1984
SAMP	LE(S) OF:	Rock (26)	RECEIVED: November, 1984

Sample No.	Gold ppb	Gold oz.
dyterite G51018 9 Creek G51020	8	
Augur > 9	4	
anel ( G51020	10	
	7	

\$

Mr. Ray Lashbrook Quinterra Resources Inc.

SAMPLE(S) FROM:

	Bell - Whit	E ANALYTICAL LABOR	RATORIES LTD.
	P.O. BOX 187,	HAILEYBURY, ONTARIO	TEL: 672-3107
	Certif	icate of Analysis	

NO. B1280-84		DATE: November 5, 1984
SAMPLE(S) OF:	Rock (52)	<b>RECEIVED</b> : October, 1984
SAMPLE(S) FROM	H: Mr. Ray Lashbrook Quinterra Resources Inc.	PN 074 - MALCROW PATENT

Sample No.	Au ppb	<u>Au oz.</u>	Sample No.	Au ppb	Au oz.
G51401	891**		G51427	4	
2	720**		8	82	
3		0.079**	9	16	
	41		G51430	3	
4 5 6	347		1	8	
6	376		2	11	
7		0.078**	3	18	
8	78		4	4	
9		0.037**	5	3	
G51410	36		6	2	
1	11		7	5	
2 3	7		8	26	
3	18		9	23	
4	40		G51440	301	
, <b>5</b>	14		1	3	
6	167		2	4	
7	8	·	3		2.43 **
· 8	4		4		0.180**
9	11		5	153	
G51420	15		6	30	
1	14		7	16	
2	15		8	16	
3	12		9	11	
4	18		G51450	15	
5	4		1	10	
6	16		2	8	

** Checked

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N ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED PTHERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

### BELL-WHITE ANALYTICAL LABORATORIES LTD.

Pin finch

Bell - White analytical laboratories LTD.			ATORIES LTD.
	P.O. BOX 187,	HAILEYBURY, ONTARIO	TEL: 672-3107
	Certif	ficate of Analysis	
<b>NO.</b> 42885		DATE	: November 5, 1984
SAMPLE(S) OF:	Rock (4)	RECE	IVED: October, 1984

Mr. Ray Lashbrook

Quinterra Resources Inc.

Sample No.	% Copper	<u>% Zinc</u>	
G51011	0.04	0.18	Jul
2	0.03	0.34 >	$\mathbf{\hat{V}}$
3	0.05	0.26	-
4	0.04	0.12	

ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

SAMPLE(S) FROM:

#### BELL-WHITE ANALYTICAL LABORATORIES LTD.

PN 074- Toomes, Arunham

the PER_1

	BELL-WHITE ANALYTICAL	LABORATORIES LTD.
	P.O. BOX 187, HAILEYBURY, ON	ITARIO TEL: 672-3107
	Certificate of Ana	lysis
NO. B1259-84		DATE: November 1, 1984
SAMPLE(S) OF:	Rock (18)	RECEIVED: October 23, 1984
SAMPLE(S) FROM	I: Mr. Ray Lashbrook Quinterra Resources Inc.	074

Sample No.	Gold ppb Gold oz.
1	10
2	19 ) 24. 1
3	8 Tr. So. sunce.
4	10 19 8 14 14 14 14 14 14 17 14 17 14 17 19 17 10 19 17 10 19 17 10 10 10 10 10 10 10 10 10 10
5	4
6	2
7	10
8	56
G051011	14
2	7
3	15 5074
4	59
5	11
6	15)
7	8

N ACCORDANCE WITH MERICAN CUSTOM, UNLEI IMERWISE GOLD AND 'S MESE SHEETS HAVE NOT ATE FOR LOSSES AND G ASSAY

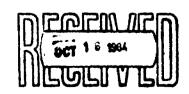
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Bell - White	ANALYTICAL	LABORA	TORIES LTD.
P.O. BOX 187,	HAILEYBURY, ON	ITARIO	TEL: 672-3107
		•	

## Certificate of Analysis

NO. B114	4-84	DATE: Oc	tober 12, 1984
SAMPLE(S) C	F: Rock (12)	RECEIVED:	October, 1984
SAMPLE(S) F	ROM: Quinterra Resources Inc.		

Gold ppb
5
3
7
3 ( 74
5 7 0 1
7 (
11
5
<b>4</b> )
8
12 2 074
15 5 274



BELL-WHITE ANALYTICAL LABORATORIES LTD.

1 Pz

N ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

E
P

Bell-White analytical laboratories LTD.

P.O. BOX 187, HAILEYBURY, ONTARIO TEL: 672-3107

# Certificate of Analysis

NO.	B11	26-	84
-----	-----	-----	----

DATE: October 5, 1984

SAMPLE(S) OF: Rock (40)

RECEIVED: October, 1984

SAMPLE(S) FROM: Mr. Ray Lashbrook Quinterra Resources Inc.

	Sample No.	Gold ppb	Gold oz. Sample No. Gold ppb Gold oz.
	G38531	8	G051151 11
iy a	2	11	5/12 $2$ $34$ .
•	( _{G38535}	77	- J- K
	~G051101	45	
(	2		0.048
	3	4	
	4	20	
١	\ 5		0.028
	\ 6	617	
erow ents	) 7		0.086
ts	4 8		0.026
200	) 9		0.076
1	G051110		7.24 **
.{	<b>1</b>		0.080
	2	537	
l l	3	16	
\	4	7	
	5	37	
	6	4	
	7	3	

** Checked

ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INNERENT IN THE FIRE ASSAY PROCESS.

Bell - White ANALYTICAL LABORATORIES LTD.			
P.	O. BOX 187, HAILEYBURY, ON	TARIO TEL: 672-3107	
	Certificate of Ana	lysis	
NO. B1054-84		DATE: September 20, 1984	
SAMPLE(S) OF: Ro	ck (7)	<b>RECEIVED</b> : September, 1984	
	Mr. Ray Lashbrook Quinterra Resources Inc.	Pr. 074	

Sample No.	Gold/ppb	Gold/oz.
G38526	3	
7	12 /	
8	8	e 14
9	5 (	
G38530	4	01 + - 5M S
G38533		0.062** Tr #7 - Sylv.Ck
4	644 - Floa	t - Low Sulfide #7 Tr. Sylv. Ck.

received Sept 21/84

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** Checked

BELL-WHITE ANALYTICAL LABORATORIES LTD.

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Per

Y ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

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BELL - WHITE	ANALYTICAL LABO	RATORIES LTD.	
P.O. BOX 187.	HAILEYBURY, ONTARIO	TEL: 672-3107	
Certificate of Analysis			

<b>10.</b> B971-84		DATE:	September 4, 1984
SAMPLE(S) OF:	Rock (6)	RECEIVED:	August, 1984
SAMPLE(S) FROM:	Mr. Ray Lashbrook Quinterra Resources Inc.		

<u>Sample No.</u>	Gold/ppb
G38523	3 )
G38524	2 { 074
G38525	2 )
G38648	2
G38649	2
G38650	2



CCORDANCE WITH LONG-ESTABLISHED NORTH CAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED WISE GOLD AND SILVER VALUES REPORTED ON SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

Bell - WHITE	ANALYTICAL L	ABORATORIES LTD.
P.O. BOX 187,	HAILEYBURY, ONTA	RIO TEL: 672-3107

# Certificate of Analysis

**IO.** B950-84

DATE: August 28, 1984

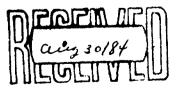
AMPLE(S) OF: Rock (6)

RECEIVED: August, 1984

AMPLE(S) FROM: Mr.

Mr. R. Lashbrook Quinterra Resources Inc., North Bay, Ont.

Sample No.	Gold/ppb
G38521	51 ~
2	30
G38644	34
5	79
6	16
7	62 )

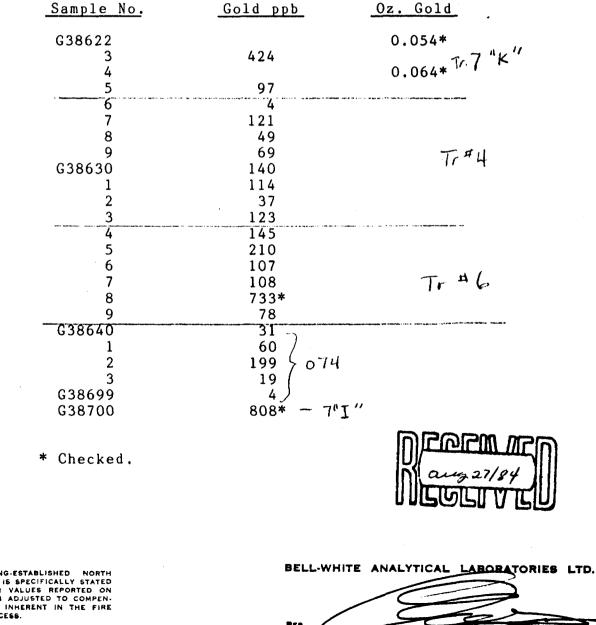


CCORDANCE WITH LONG-ESTABLISHED NORTH CAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED (WISE GOLD AND SILVER VALUES REPORTED ON SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-J OR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS. BELL-WHITE ANALYTICAL LABORATORIES LTD.



		P.O. BOX 187,	HAILEYBURY, ONT	ARIO TEL: 672-3107	
		Certi	ficate of Anal	ysis	
10.	B927-84			DATE: August 24, 198	34
	(S) OF:	Rock(24)		RECEIVED: August, 198	34

PROJECT_# 074800



Д. К. 0 І. В.К.

ACCORDANCE WITH LONG-ESTABLISHED NORTH ICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED HWISE GOLD AND SILVER VALUES REPORTED ON SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

Bell - White	ANALYTICAL LABOR	ATORIES LTD.
P.O. BOX 187,	HAILEYBURY, ONTARIO	TEL: 672-3107
 Certifi	cate of Analysis	

NO. B899-84

DATE: August 20, 1984

SAMPLE(S) OF: Rock (15)

RECEIVED: August, 1984

project 074

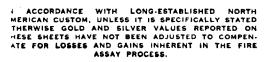
SAMPLE(S) FROM:

Mr. Ray Lashbrook Quinterra Resources Inc.

	Sample No.	Gold/ppb	Gold/oz.
	G38684	208	
	5		0.036**
7°C "	6	85	
10	7	193	
	8	953	
	9	440	
	G38690	543	
7'D'	1	11	
1 4	2	186	
-	3	66	
	4	22	
	5	99	
074	6	21	
- • •	7	4	
	8	2	

** Checked

с.е. Д.К о. І. В.К.



SELL-WHITE ANALYTICAL LABORATORIES LTD.



		Bell - Whit	E ANALYTICAL LABOR	ATORIES LTD.
	$\sim$	P.O. BOX 187,	HAILEYBURY, ONTARIO	TEL: 672-3107
• •		Certif	icate of Analysis	
NO.	B886-84		DATE:	August 16, 1984

SAMPLE(S) OF: Rock (26)

RECEIVED: August, 1984

project 074

SAMPLE(S) FROM: Mr. R. Lashbrook Quinterra Resources Inc.

Sample No.			Copper/ppm	Zinc/ppm	Silver/ppm
<b>G38658</b>	32 Gry	itic Tuff sibpy	r 410	1400	1.0
, \ 9	22	" " 25%,	ry 720	2675	- 1.6
side 2 G38660		oto py			
Chris) 1	58 🔺	C. V5. 5%, 24			
ke ( 2	36 5LP	· 16			
3	86 (m	+ Tull 2% 24	-11-1	-1	
4	253 Curb	Tuffs: 2% 24	5" Tr, #7 Wes	5.75	
5	11	" 0.038**-	5", py (15% 200 5' 7 Tr. #7 Wes		
6	376 "	" 3º/, py -	5 T_ #7 Wes	+ Tr	
7	110 Shed	Carb Tuffs + Ch., 5%			
7A 8	426 "	4 4 310 77	0.7		
9	514** ^p i ⁻	Ch IF 20% 24 4,0	6.3		
G38670		Tuff- 2"10 124,			
1	232 🕮 /	El. T. ff 6% PY ) 5 T. ffs 5', - ff. 5'71	3.1.11		
2	284 Cur	- 11. 5 11.	eh IF. V 5		
3	609 Carb	Toffs + 125'M.	15% 24	o' East of C	bool
4	903** ch	-Py Chl. IF so Carb. Rock	31.14		
76 5	10 - M	LES LANCES STREET	· · · · · ·		
6	132 cur	6 Toffs 3ºl.	³ ⁹ <b>5</b> 4.5'	1	
7	141 Fel	.T.ff 5% 27	4		,
. 8	317 **	es as pi pi	3'	E. J. Tem	west End
75. 9	53	carb Tuff + 6"	(h-1) 2'	للمريق المسلاح	
1 G38680	424 414	Curb IVFF + 4	31/21	1	
1		Eff . 5 10 24	24 H'		
2	259 Car		ri ·	1	
3	511 Ca.	-b Tuff 1'le	γγ V	¥	
			and the second	- 1	

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I ACCORDANCE WITH LONG ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



	BELL - WHITE ANALYTIC	AL LABORATORIES LTD.
	P.O. BOX 187, HAILEYBURY,	ONTARIO TEL: 672-3107
	Certificate of A	nalysis
NO. B851-84		DATE: August 9, 1984
SAMPLE(S) OF:	Rock (10)	RECEIVED: August, 1984

Gold/ppb

728**

7 10

21

10 5

8

25

838** 44-84

....

520 ** alt. relisic Porp LISOF 7+60

1.

Mr. Ray Lashbrook

Quinterra Resources Inc.

Sample No.

G38651

2

3

4

5

6 7

9

G38598

G38600

** Checked

. с. В. К. С. В. Д. В. К.

SAMPLE(S) FROM:



LIGOE

Bails

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I ACCORDANCE WITH LONG-ESTABLISHED NORTH MERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED THERWISE GOLD AND SILVER VALUES REPORTED ON HESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-ATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

	P.O. BOX 187,	TE ANALYTICA HAILEYBURY, C		672-3107
	Certi	ficate of An	alysis	
NO. B779-8	•	,	DATE: Ju	11y 30, 1984
SAMPLE(S) OF	Rock (53)		RECEIVED:	July, 1984
SAMPLE(S) FR		ashbrook Resources Inc.	P.N. C	>74
Sampl	<u>No. Gold/ppt</u>	<u>Gold/oz.</u>	Sample No.	<u>Gold/ppb</u>
G38		. <u> </u>	G38592	33 Curb. T. 18401 66 Ch-carb-10411 +

1

G38566	2	G38592	33 Carbo 1 1 1
7	3	3	66 Ch - carb - 10 414 + CL/ 1
8	56 E, and Brildered wren 56 E, and By (Py-chi-ch. EF.)	4	43 ch · ly reard · + M. r. ff
9		5	11
G38570	244** BULIDZED AREA - Sil Ser Tull 244** BULIDZED AREA - Sil Ser Tull	6	34 - Carb Rock (Mars & Tulf.
1	3	7	5 _
2	3 3' 10% Py (11 Taft	G38601	4
3	15	2	2
4	3	3	7 /
5	4	4	7 /
6	2	5	4 /
7	2 Flort Fel to the	6	33
8	19	7	4
9	4	8	$3 \setminus r \downarrow$
G38580	2	9	4 3414.1
1	NORANDA - CRABED TR. 4" 0.034 **	G38610	$3$ ) $i_{nat}$
2	125 2nd Mass West. IR. 42 To PY	1	27 / 2007
3	137** 411. Fel. Parph. 12% 11.	2	5 (
4	174 ch - 124 IF 64694.	3	4
5	11	4	4
6	4	5	5
7	4	6	2
. 8	2	7	2
9	· 7	8	22
G38590	4	9	5
1	97 Carb. T. , DV'S 28, PY.	G38620	67
		1	· 5 /

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BELL-WHITE ANALYTICAL LABORATORIES LTD.



ACCORDANCE WITH LONG-ESTABLISHED NORTH LRICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED FRWISE GOLD AND BILVER VALUES REPORTED ON SE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

E		BELL - VV HIT	E ANALYTICAL LABOR	ATORIES LTD.
		P.O. BOX 187,	HAILEYBURY, ONTARIO	TEL: 672-3107
		Certif	icate of Analysis	
NO.	B666-84		DATE	: July 16, 1984
SAMPL	E(S) OF:	Rock (5)	RECE	IVED: July, 1984

SAMPLE(S) FROM: Ray Lashbrook
Quinterra Resources Inc.

Tr 7

G38565

Project #074800

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ACCORDANCE WITH LONG ESTABLISHED NORTH ICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED HWISE GOLD AND BILVER VALUES REPORTED ON SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS. 160 SYNV CK

BELL-WHITE ANALYTICAL LABORATORIES LTD.

			ANALYTICAL	LABORA	ATORIES LTD. TEL: 672-3107			
		P.O. BOX 187,	HAILEYBURY, ON					
		Certifi.	cate of Ana	lysis				
NO.	B564-84			DATE:	June	29,	1984	

SAMPLE(S) OF: ROCK (14)	SAMPLE(S)	OF:	Rock (1	4)
-------------------------	-----------	-----	---------	----

RECEIVED: June, 1984

.

SAMPLE(S) FROM:	Mr. Ray Lashbrook	
	Quinterra Resources	Inc.

074800-Sypanite Cuil.

Sample No.	Gold/ppb
G38551	8 - Nor - 1.R.
2	5)
3	3
4	22 Sylv East
5	10 (
6	7
7	11 )
8	4
9	<b>4</b> )
G38560	2 ( Betty Lake
1	15 (
2	7) DELION
3	2 Betty Lake 15 Betty Lake 7 Loot /10N 925** Loot /10N
4	4 - 074

** Checked



CCORDANCE WITH LONG-ESTABLISHED NORTH AN CUSTOM, UNLESS IT IS SPECIFICALLY STATED MISE GOLD AND SILVER VALUES REPORTED ON WHEITS HAVE NOT BELN ADJUSTED TO COMPEN-I ON LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.

Pri



### 1984 DIAMOND DRILLING

J J	Ministry Natural		)												
tano	Resourc	es Drilling Log		Collar Elevation		<b>Ta</b>	<del></del>				1	Fill in on every pe rence No.	90 🛡 S	e No. C-84-1	Page P
ling Col		OPEN OPILLING	141750	Conar Environ	Total Footage	Dip of Hole st	fixed p	on of hole in oint on the c	i neumon so u ;leim.	•	map mere			1340	
e Hole 1	herter	OREX DRILLING L	moleted	Dete Logged	Logged by	Coner   -45°	1 1				Location	T	ion or Lat	and Long.)	
		1-1-1	EMBER 10, 1984	DEC 10/84	LAURENT HALLE	446 MI-54°			H		1				
	ER 9. 1	r or Optionee	CHDER 10, 1704	Dete Submitted	Submitted by (Signature)	·			14		250'S	, 250'W.	01 1-	1 631340	0
						•	1 1	63134	<u> </u>		TOOMS	TOWNSHI	1.90E	<u>, 16+50</u>	Ν.
QUI	NTERRA	RESOURCES INC.			1	<u>n</u>			Ň		Property i	Name			
						n  '					SYLVA	ITE CRE	EK.		
Foo	tage	Rock Type			Description		Planar	Core Beaclinen Feelage 1	Your	Sample	Footage	Sample	AU	Assays †	
From	To	HOCK TYPE		Colour, gr	in also, builting, minarisis, anarytian, asc		Planar Postura Angla	Feelage 1	Semple No.	From	To	Longth	PPB		ŀ
0	24.9	Casing	Overburden												<b>_</b>
4.9	37.8	Mafic Crystal			ith approx. 30% to 40%	feldspar phenos.					L				<b></b>
		Tuff.	0.1mm in si	ze, trace py	· · · · · · · · · · · · · · · · · · ·		<b></b>	I			ļ			<b></b>	<b>_</b>
							<b></b>	<u> </u>			L			<u>↓</u>	+
		<u> </u>	24.9 - 32.2	- dk matic to	iff, atz phenos., sever	al thin QC veins	L	Į							╉───
		ļ		<u>450 to C.A</u>	and parallel to C.A. 1-2mm, 70° to C.A.		<b> </b>	ļ			i			┿────	<u> </u>
			2017	- py vein 1mm										╉────	+
			<u> </u>	- py vetn ime										+	+
			32.2 - 36.3	- it green o	arbonated, silicified,	10% parrow								+	+
				randomly or	iented quartz yeins.	Jon har tow		<b>↓</b> −−−−−						+	1
			33.8	-34.5 - high	ly silicified with 2-3	Cm OV		1						1	1
					with fuchsite.						1			1	1
					30° to C.A. with fuchsi	te.	h	t						1	1
			•											1	T
		L	36.3 - 37.8	_ contact 450	to C.A. fg green mafi	c_tuff, mod.			051301	36.7	37.8	1.1'	803		
					0.5% diss. py, QC vei	ns at 45° to 90°							ļ	<u> </u>	
	ļ	Ļ		to C.A.			L	<b></b>					ļ	<b></b>	∔
		L	36.8	- <u>J7.1 - QV</u> 1	with fuchsite, py cube	0.5cm.								<b></b>	<b></b>
7.8	16 0	Falata Prost	104 107					ļ				L		<b>}</b>	╂───
1.0	46.0	Felsic Porphy	y	lelospar pher	os to 1mm, 3% to 5% di	ss. by and graphit	ļ <b>i</b>	<b></b>	051302	37.8	42.8	5.0'	232	+	<b>+</b>
					ray-white colour, seve	rai thin cross-			051303	42.8	46.0	3.2'	245	f	f
				$rt 70^{\circ}$ to 75°		•••								t	1
		t	UDVer_Contai	<u>. 10 La 75</u>									<u> </u>	t	+
6.0	54.7	Crystal Tuff.	-upper contac	t at 450 to	C.A. It green with wel	1 developed			051304	46.0	46 7	0.7'	266	t	t
			foliation 4	5° to C.A. ca	rbonate alt'n.				and the second s	المنتق		and the second street			1
			46.0 - 46.7	- silicified	and carbonatized; brow	n carbonate.									
				py ≈ 5%.											
															1
														T	1

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ntano		Log													Fill in or avery pi	100 🛡 S	He No. 5C-84-1	<b>Page</b> 2
illing Co	• •				Collar Elevation	Bearing of hate train		Dip of Hole at		Location Rand D	on of hole in oint on the c	relation to a	•	Map Rete	rence No.		um No. 1340	
te Hole I		OREX DRILLIN	G LIMIT te Comple		Dete Looged	Logged by	446	Coller				49-1		Location	(Two Lot (	1.1	and Long.)	
DECEMI	ER 9. 1	984	DECEMBE	R 10, 1984	DEC 10/84		LLE	446 . 1.	-54°			h					1 631340	
pioration	Co., Owne	r ar Optionee			Date Submitted	Submitted by (Sig	insture)	<u></u>	·			1			TOWNSHI			-
	NTEDDA	RESOURCES I						n	•		63134	0		Property I				
401	NIERKA	RESOURCES 1	NG.		1			nl	•	1					NITE CRE	EEK.		
Foc	1890	Rock Tro			· · · · · · · · · · · · · · · · · · ·	Description	•			Pierer	Com	Your	Sample	Footage	Semple	AU	Assays 1	
From	Te	HOCA TYP	-			in also, tarturo, minar					Core Boscines Focuse 1	Semple No.	From	To	Longth	PPB	1	$\square$
				46.7 - 48.6 -	- crystal tui	f with feld	spar and we	11 developed		I	l				Ļ	<b> </b>	+	₋
					tollation,	some QC vei	ns at 70° to	<u>o C.A. (5%)</u> .	·		<u> </u>					ł		+
				48.6 - 49.3 -	- silicified.	QV's 90° t	o C.A. 1% to	D 27 DV.		<u>├</u>		051305	48.6	49.3	0.7	20	+	t
											1							
				49.3 - 50.7 -	- light greer	•									[	<b></b>	<b></b>	<b> </b>
				50.7 - 53.5 -	mafic suff	dk areas	fo aliabeli			<u> </u>						<u> </u>	<u>+</u>	<b></b>
				51.5 -	- 53.5 - quar	tz vein zon	$e = 45^{\circ}$ and	parallel to	C.A.	<u> </u>		051306	51.5	53.5	2.0'	36	+	†—
						e cubic py.						071300						
					·····												<b></b>	<b>—</b>
				53.5 - 54.7 -	<u>crystal tuf</u>	<u>f. light gr</u>	cen_with_30	<u>feldspar</u> p	henos.		ł					┟────	┿───	╆──
54.7	59.2	Mafic Tuff.		-highly conto	orted, folded	dk green	quartz-cart	veins, hro									+	+
				carbonate al	teration.				<u></u>								1	
59.2	(0.0								·							[		_
39.2	60.8	<u>Crystal Tuf</u>	±	-coarse grain	ied												4	╉───
60.8	61.4	Carbonate A	lt.	-brown.							ti						+	t
																	<u> </u>	$\square$
61.4	64.8	Mafic Cryst	ا لم	-30% to 35% f	eldspar phen	<u>os.</u>	-0										∔	╉──
		Tuff.		63.4 - 63.8 -	OC vein par	allel and 9	0 <u>to C.A. t</u>	race diss.	py							I		╋──
64.8	66.2	Mafic Tuff.		-fg, dk green														<u>t</u>
	<b>1</b>																	
56.2	08.1	Mafic Crystal	TUEE.	-carb_altered	•												<b>}</b> ′	╂
8.1	68.5	Mafic Tuff.		-fine grain.												h	<b>∤</b> ∕	<u>†</u>
																	1	
68.5	72.9	Crystal Tuf	£.	-carbonated.		ed foliation	at 70°to C											
				<u>some diss.</u>	¥									I		į	<b></b>	

ntano	Resourc	Log											Fill in or every pr	00 V St	le No. C-84-1	Page N 3
illing Con	N	DREX DRILLING LIM	pleted	Collar Elevation Date Logged	Logged by	446	Dip of Hole at <u> conter] -45°</u> <u> 446 PL -54°</u>	Location Ruad p	on of hole is oint on the	starij			(Twp., Lot. (	631	im No. 1340 and Long.)	
DECEMB ploration	ER 9, 1 Co., Owne	984 DECEM	BER 10, 1984	DEC 10/84 Dete Submitted	LAURENT HA	LLE neture)	n		63134	<b>[</b> ].			, 250'W TOWNSH		1 631340	)
		RESOURCES INC.											Name NITE CRI			
From	age To	Rock Type		Colour, gr	Description in else, texture, minors	ia, sherikian, alc.		frankra Angen	Core Specimen Freespet	Your Bampie No.		Footage	Sample Longth	AU PPB	Assays †	
			70.6 - 71.0	brown carb	zone.			<u> </u>	<b></b>							$\square$
			/1.4 - /1.8 -	<u>contorted</u>	aro zone.			ł	<u> </u>			<u> </u>	<u> </u>	{	┨────┤	
72.9	83.2	Mafic Tuff.			b and silici	lfied, conta	act at 70° to C.A.									
				QV 5".		······································			l	<b>├</b> ───┤		<b> </b>		<b> </b>	┟───┤	
			73.7 -		zone with r	ale green a	alt'n., contorted			051307	73	75	2.0'	289	<b> </b>	
				text	ure, trace r											
			78.8 -	79.1 - QV w	ith green ca	rb alt'n.	licified, trace py,	<b> </b>	<b> </b>	051308	82.5	83.2	0.7	439	┟────┤	
			02.7		green caro	AIL D. SI	licitied, trace by	<b> </b>		031308	02.5	03.2	0.7	437	<u></u>	<u> </u>
83.2	86.0	Mafic Crystal Tuff.	-Quartz veins	. diss. py t	0 1%.					051309	84.8	86.0	1.21	388.		
86.0	87.0	Mafic Tuff.	-fine grain.		·····	·····	<u> </u>			╏───┤		<b> </b>			┟╌───┘	
			THE REALITY													
87.0	88.3	Crystal Tuff,	-at 87.9 OV 1	" wide.						051310	87.7	88.2	0.51	602		<u> </u>
88.3	92.2	Altered Zone.	-high brown c	arbonate alt	'n with seve	ral OV's.		<u> </u>		051311	88.3	92.2	3.91	437	╉╼╼╼╼─┤	
			-30° to C.A.,	17. py.												
			-some contort	ed zones.										[	<b> </b> ]	<b> </b>
92.2	93.2	Mafic Crystal Tuff.	-some contort	ed zones.		<u> </u>									<b>├</b> ────┤	<u> </u>
					·····											
93.2	100.8	Mafic Tuff.	_fg, carbonat	ed, QV's to QV 90° to C											┟────┤	
			the second s	QV 90° to C		······									<b>├</b> ───┤	
			95.9 -	QV 45° to C	.A. 1" wide.											
00.8	101.7	Altered Zone.	-brown carbon	ate and our-	t # #000 7 7	7 nv				511312	100.0	101 2	<u> </u>	0.041	0.12.00	┢───
		I THE WAY WAY WAYING											U.Y'	1 V.V.	JUGILUIL!	<u>ــــــــــــــــــــــــــــــــــــ</u>

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QUIN Foota	NC arted 2 <u>R 9, 1</u> Ca., Owne ITERRA	DREX DRILLING LIM Date Comp 984 DECEMB W of Optionee RESOURCES INC.	ITED 10100 DER 10, 1984	Collar Elevation Data Logged DEC 10/84 Data Submitted	Logged by LAURENT HALLE	al Footage 446	Dip of Hole at Collar   -45°	Locatio	on of hole in oint on the l	relation to	•	Map Refe	rence No.		1340	
QUIN Foota	anad 2 <u>R 9, 1</u> Co., Owne ITERRA	984 DECEMB r er Optionee	leted	DEC 10/84	Logged by LAURENT HALLE	440	Cener [ = 4 2 .									
QUIN Foota	Ce., Owne ITERRA	r er Optionee	ER 10, 1984		LAURENT HALLE			1 1		141		Location	Tup. Lot. (	ion. or Lat	and Long.)	
QUIN Foota	ITERRA	-		Date Submitted			446 -54	{		/ <b>F</b> .		250'S	, 250'W.	of P-	1 631340	)
Foota From		RESOURCES INC.			Submitted by (Signatur	re) '	<u>n </u>	{				TOOMS	TOWNSH	[ <b>P</b> .		
Foota							<u>n</u>		63134			Property	Name		<u> </u>	
From	100 1		······		I		nj i						NITE CRI	_		
	To	Rock Type		Color of	Description of day, tecture, monotole, of	writing, etc.	,	Planer Frankry	Com Beacimen Peologie 1	Your Sample No.		Footage To	Semple Length	AU PPB	Assays †	<b></b>
101.711		Crystal Tuff.	-coarse gr,		QC vein 102' -		ide with trace	Nordan .		051313			2.3	487	+	
			ру.													
		Mafic Tuff.	6	00111								ļ	ļ	ļ		<b> </b>
105.41	10.3	Halle IUII.	108.9 - 110.	QCV's at 80°	s alt'n with QC	voine 3	59			051314	106.0	106.8	0.8'	80	- <b> </b>	
				5 5111000		verna, J	- 5% ру.		f	051514	1.00.0	100.0	0.0			
110.3 1	15.6	Mafic Tuff.		en-gray, carb						051315			1.4'	659		
			115.5 - 0V w	vith trace py.	·			<u> </u>		051316	114.1	115.6	1.5'	477	╉───┥	
15.61	20.8	Crystal Tuff.	-coarse or	carbonated, d	Hee ou					051036	115.6	117 5	1.91	291	┼───┤	
				carbonated.						031030	1.2.0	1			1	
20.8 4	24.1	Altered Zone,	-highly sili	cified with w	p to 50% OV's.	trace py	and fuchsite.				120.8		1.91	284		
			120.8 - 122.	$\frac{7 - quartz}{1}$	green carb alt	., trace	ру			051318	122.7	124.1	1.4'	559	╉╍╍╍┙┙	<b> </b>
			122.7 - 124.	I - quartz v	Veins with Luch	<u>site</u> , 24	ру.								<u> </u>	
Z4.1	126.8	Ultramafic Tuff.	-contorted,	pale green, s	iliceous alt'n	, trace fu	uchsite, 0.5% py.			051319	124.1	126.8	2.7	657		
26.8	115 0	Nofic P. CC	110( 0 100	,											4	<u> </u>
20.0	133.0	Mafic Tuff.	126.8 - 128.		5 ⁰ to C.A., his on zone, 1% py a					051320	126.8	128.4	1.6'	619_	╉╼╼╼┙	
			128.4 - 135	- fine graine	d. some narrow	OV's, Fo	oliation at 45°					<u> </u>			1	
				to C.A.												
			132.2	- 133.0 - 00	alt zone, 2-2'	" OV's wit	th trace py.				132.2			.378	l	<b> </b>
			134.0	- 135.0 - 00	alt zone, 1" (	OV. trace	py cubes to 0.5cm	L		051322	134.0	135.0	1.0	762	+	<u> </u>
35.0 1	140.2	Ultramafic Tuff.	-contact 45°	to C.A. cont	orted. diss. py	v. OC alte	eration.			051323	135.0	140.2	5.2'	429		
40.2	141.0	Quartz Veins,	-fuchsite, p	vrite.	·····					051324	140.2	141.0	0.8	388	┫	
41.0 fi	149.6	Mafic Tuff,	-coarse er	lt pray-pros	carbonated an	nd silicif	fied.								┨──┤	
					m carb alterati					051325	146.8	147.6	0.8'	555		

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S. N. A. .

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Ontario	Resourc	es Drilling Log											Fill in or every pe	se sc-	84-1	Page 5
Drilling Co				Collar Elevation	Bearing of hele from the North 195 ⁰		Dip of Hole at	Locati fized p	on of hole in olat on the i	relation to	•	Map Refe	rence No.		m No. 1340	
Date Hole	Started	REX_DRILLING_LIMIT	leled	Date Logged	Logged by	446	Coller   -45° 446 m   -54°	i i		2501		Location	(Twp., Lot, C			
	BER 9,	1984 DECEME	SER 10, 1984	Dec 10/84 Date Submitted	LAURENT HA		440 RJ-34			Ĩ∎[		250'S,	250'W.	of P-1	631340	
								1 1	63134	0			TOWNSHI	P		
Q	UINTERR	A RESOURCES INC.						1				Property	Name IITE CRE	FY		
Foo	olage	Rock Type	T		Description		<u>N</u>	Pierer	Core Bescimen Foruge 1	Your	Sample	Footage	Sample		Assays †	
From 149.6	To				ain alua, textura, minari	it, starslin, etc.		Frankr Frankr Anges	Passage 1	Sample No.	From	To	Length			<b></b>
49.0	152.2	Crystal Tuff.	-med gr. trac	e diss. py.	······				<u> </u>	<b> </b>	<u> </u>	<u> </u>				
152.2	155.4	Mafic Crystal Tuff.	-coarse gr.,	lt grey-pink	colour, car	b, and sil, a	lt.									<b>—</b>
155.4	158.0	Altered Zone.	-highly brown	carbonated	and siliceou	s alt zone.	foliation 70°		<b></b>	051326	155.4	158.0	2.6'	27	<u> </u>	
			Lo C.A.									1	1			
58.0	158.6	Mafic Tuff.	-chlorite and	carb alt.,	10-15% coars	e cubic py	to 0.5cm.	┨────	<u> </u>	051327	158.0	158.6	0.61	26	<u> </u>	
158.6	160 7										1					
	100.4	Crystal Tuff.	-carbonated a	nd_silicitie	d; @159' 1"	QV90° to C.	<u> </u>	┨────	<b>}</b>	<b> </b>	<u> </u>	╉	<u> </u>	╂	<b> </b>	
160.4	164.6	Mafic Crystal Tuff.	-grey-green.	fg. OCV 90	to C.A.						1					
64.6	166.7	Altered Zone.	-highly silic	eous and car	. OCV 90 [°] to C.A. us and carbonated, 1-2% py.					651330	164.8	166.7	1.91	402	┟────	┣
										051 128	104.0	100./	1.2	402		E
166.7	169.5	Mafic Crystal Tuff.	-QV 90° to C.	A., 1-2% py	with fuchsit	e					167.7		0.7	255	<b> </b>	
69.5	171.0	Mafic Tuff.	-highly conto	rted. It gree	20.	· · · · · · · · · · · · · · · · · · ·					168.4			16		
71.0	173.1	Altered Zone.	- highly brown	carb and ef	iceous alte	red tone wi	th some fuchsite		<b> </b>	051332	171.0	173 1	2.1'	156	<u> </u>	┣
		CALCELED DONES	and pyrite,	QCV at 70° to	C.A.				1	571352			<u> </u>			
73.1	177.9	Mafic Crystal Tuff.		+ 70 ⁰ +0 0 +			site. some OV's	ļ	ļ		ļ	<u> </u>	<b> </b>		<b> </b>	┣—
			at 90° to C.	A. & several	narrow.1mm	OV's at 70°	to C.A.				<u> </u>		<u> </u>			
77.9	178.5	Mafic Crystal Tuff,	-coarse grain						1						<u>                                      </u>	┣
							······································								· · · ·	
78.5	179.7	Mafic Crystal Tuff.	-carbonated.	30% to 40% 00	V's at 70°	0 C.A. dis	s. py 0.5%.			051333	178.5	179.7	1.2'	417		Į
79.7	182.4	Mafic Crystal	179.7 - 180.3	- coarse gra	in.		,		<u> </u>		<u> </u>	<u> </u>	<u> </u>			
	1	Tuff.	180.3 - 182.2	- carbonated	, with 50%	to 60% OCV'	at 70° to C.A.	<u> </u>		051334	180.3	182.4	2.1'	714		

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	I in on Hole No. Page No. ary page SC-84-1 6
Total Footage Dip of Hole at Location of hole in relation to a Map Reference 1950 446 Control - 45° Read point on the claim.	No. Claim No. 631340
by a first long (further	Lot, Con. or Lat. and Long.)
ENT HALLE 446 Al-54° 250'S, 25 ad by (Signature)	0'W. of P-1 631340
631340	NSHIP.
Property Name	CDEEK
Bastum Bastimes Volt	nple AU Assays t light PPB
zone: some small feldspar phenos 051335 182,4 183,5 1	.1' 29
Trace py, some green carb.	
0-80° to C.A., 5% to 10% cubic py 051336 183.5 184.5 1	.0' 60
	.0. 80
10% OCV'S 70°-80° to C.A.	
ed. 40% to 50% OCV's, Well lamina- 051337 186.3 188.6 2	.3' 595
A. 2-3% byrite cubes up to 0.7cm	
d slumped texture.	
wn-red alt., slightly laminated at 051338 190.3 191.5 1	.2' 97
s rock with feldspar, trace py.	
leneation @70° to C.A., 1t and dk 051037 191.5 193.1 1	.61 407
bic pyrite to 0.2cm.	
en laminations 70° to C.A.	
n alt., 17 cubic py band (cubes 051339 194.1 194.8 0 ide).	.7' 410
-green, narrow OCV's parallel or	
onated, 0.5cm QV 70 [°] to C.A.	
-green.	
brown carb and sil alt: QV 1"	
nuous veinlets of carb or feldspar	
but less veinlets.	

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	•	Log											Fill in or every p	100 🛡 S	le No. C-84-1	Page N 7
illing Co				Collar Elevation	105 ⁰		Dip of Hole at	Locati	on of hole is	relation to	•	Map Refe	rence No.		im No. 1340	
te Hole 1	taried	OREX DRILLING LIM	pleted	Date Logged	Logged by	446	Conor -45°		·	1.44		Location	Two. Lot		and Long.)	
DECEMI	BER 9.	1984 DECEME	BER 10, 1984	DEC 10/84	LAURENT HA	LLE	446 m - 54°			11			• • • •		1 631340	
ploration	Co., Own	er er Optionee		Date Submitted	Submitted by (Sig	inature)	<u> </u>	j j		1			TOWNSH			
							n in i		63134	•						
QUI	NIEKKA	RESOURCES INC.					ni -					Property	NAMO NITE CRI	EEK.		
Foc	tage	T	T		Description			Paner	Core	Your	Sample	Footage	_	T AU	Assays 1	
From	To	Rock Type			uin also, taxturo, minari	sis, alteration, stc.		Presser Freehort	Core Bescimen Foruge 1	Sample No		To	Length	PPB	<u> </u>	1
206.3	209.9	Mafic Crystal Tuff.					.A., some of the									
			veins cut th	he lamination	s which are	70° to C.A.					ļ	I		<b></b>	<b></b>	_
200 0	216 2	Mafic Tuff.	dk groop at	iliconus alta	Tation cont		y. cubes, some	┝──	<b> </b>	51340	209.9	215 2	5.4	0 023	oz/ton.	÷
.07.7	412.2		folded text		ration, semi	1-massive, p	y, cubes, some		<b></b>	001040	207.7	213.5		10.025	1 27 2011	┢
												f			1	<u> </u>
215.3	218.8	Mafic Tuff,	-de green, hi	ighly siliceo	us with band	is of semi-m	assive py. and			051341	215.3	218.8	2.5'	117		
			diśś.py.											Į	<b></b>	<b></b>
		<u> </u>	-some OV's 1'	OV's 1" wide with py.					<b> </b>			ļ		<b> </b>	<u> </u>	╉───
218 8	255 7	Mafic Crystal	-lt grey-pres	y-green, carbonated mafic tuff with feldspar phenos, QC					<b> </b>					┟	+	<u>+</u>
	233.7	Tuff.		at 80° to 90° to C.A. some diss. py.							<b></b>	<u> </u>			÷	<u> </u>
		L	218,8 -	220.5 - carb	. alt and di	iscontinuous	narrow QCV's.					1				
			220.5 -	the second s		C.A. fg mafi	c tuff with carb.								I	<u> </u>
			221.2	<u>alt</u> 222.3 - well	vein.		400		ļ		001 (				┥───	<b>+</b>
		+					ve along the beds,			051342	221.6	222.4	0.8'	38	+	<del> </del>
					s to 2mm.		ve along the bedal							F	1	<u>†                                    </u>
			222.3 -	230.9 - some		C.A. to 1"	wide.					1				
			230.9 -	231.3 - high						051343	230.9	231.3	0.4'	56	<b></b>	÷
				fuch	site and O.	y py some	cubes to 0.5cm.							<u> </u>	┿───	ł
		<del>{</del>	231.3 - 248.0	) - lt prev-p	reen with la	minations a	t 45° to C.A.								<b></b>	
		1					e and trace py,									
		L		Seve	ral narrow C	CV's 90° to									↓	
		<u> </u>	239.5 &	239.9 - OV's	<u>1" wide wit</u> " wide.	h py.								<b> </b>	<b></b>	<b> </b>
		<u> </u>		242.7 - QV @		to C.A. tra	Ce DY.								<b> </b>	┟
			245,1 -		" wide @45°										f	t
		1	247.0 -		" wide, trac			·								
			248.0 - 249.1	<ul> <li>mafic tuf</li> </ul>	f - dg green	, chloritic	107-157 cubic			051344	246.6	249.1	2.5'	550		
					0.7cm in si										1	

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ntano	Resource	" Log											Fill in or every pr	100 🕨 S	le No. C-84-1	Page No _8
rilling Co		REX DRILLING LIMI	TED	Collar Elevation	Bearing of hole from the factor 1950	Total Footage 446	Dip of Hole at		on of hole is oint on the	relation to claim.	8	Map Refe	rence No.		1340	
ste Hole I		Date Comple		Date Logged	Logged by	1440				25-1		Location	(Twp., Lot.	Con. or Lat.	and Long.)	
	ER 9. 1		ER 10, 1984	DEC 10/84	LAURENT HA	LLE	446 m - 54°			1		250'5	, 250'¥	. of P-	1 63134	0
ploration	Co., Owne	r or Optionee		Date Submitted	Submitted by (Sig	nature)	<u>n </u>			1		TOOMS	TOWNSH	1P.		
	NTEDDA	RESOURCES INC.					. n .	' I	63134	0		Property	Nome			
Q01	NICKKA	RESOURCES INC.					R	ויר					NITE CR	EEK.		
Foc	tege		<u> </u>		Description			Planar	Core	Your	Sample	Footage	Semole	AU	Assays †	
From	70	Rock Type			ain also, tartura, miner	sis, altoration, atc.		Planer Festure Angle	Core Bescimen Freidge 1	Semple No.	From	To	Longth	РРВ	T	T
			249.1 - 255.	7 - upper co	ntact 45° to	C.A. well	laminated at 45°		1							<b></b>
							to 70° to C.A.	<u> </u>	<u> </u>			<u> </u>	<b> </b>			
			<u> </u>	diss. py	., some fold	led textures	•			<b> </b>		<b>{</b>	<b>↓</b>		<u> </u>	<b></b>
255.7	261.4	Talc - Green	-highly alto	rad rack to	lo and oreas		alteration, some		┨─────	051345	255.7	261 4	5 71	20	+	<u> </u>
		Carbonate Rock.					st be mafic or	<u> </u>	<u> </u>	1051343	233.7	1 201.4			+	+
			ultramafic	rock. About	20 - 25% m	fic mineral	s and 20-30% white	1								
			feldspar.													
			-some diss.	py. cubes, c	<u>ontat 65⁰ -</u>	70° to C.A.				ļ		Ļ		I	∔	+
261.4	267.3	Mafic Crystal			150		1 1. 1. 0.000	<u> </u>	┫────			╡────	<u> </u>	<u> </u>		╉────
201.4	207.5	Tuff.	at 45 to C	A A A A A A A A A A A A A A A A A A A	rb. altered, QCV's		<b> </b>			·	<u> </u> -			+		
<u></u>				101	······			+			t	<u>                                      </u>	1	1	1	
267.3	269.9	Mafic Tuff.	-contact 65°	to C.A., dg	green tuff w	ith chlorit	ic alt'n, 30-40%	1	1	051346	267.3	269.9	2,6'	182	1	1
			feldspar ph											1	1	
	ļ			ic crystal t minor fold a			o C.A. some fold	<b> </b>	<u> </u>			┟────		<b> </b>		+
			-some big py			U.A.	•	╂	<u> </u>			╂────	┠────	<u> </u>	+	+
·_·····			-some org pr	· cubes to 1	C101			<u> </u>				<b> </b>		1		+
269.9	274.0	Mafic Crystal	-lt grey-gree	en, 40% feld	spar phenos.	, foliation	45° to C.A.	t								1
		Tuff.	-several nari	row 0.5cm QC	V's. /			1	1							
27/ 0	276 6	Mafic Tuff.	l					I	I			Į		┫────	╉┯╍╍	╉────
<u>£14.0</u>	213.3	matic TUTE.	-dk green, cl		eration. fol	iation 45°-	50° to C.A.	Į	<u> </u>			<b> </b>		<b> </b>	+	+
	t		-Some narrow		·····		•••	<del> </del>	<del> </del>	<b> </b> i		<u> </u>		1	+	t
275.5	291.0	Mafic Crystal	-contact 45°.	-50° to C.A.		1	1			1		1	1	1		
			279.3 -	279.5 - qua:	rtz-green ca	rb. vein.										
	<b> </b>		282.2 -	283.1 - sil	iceous green	carb. zone	•		L					L	+	<b></b>
	<b> </b>	<u></u>	290.0 -			carb, zone	with quartz carb.	ļ	Į			<b> </b>		<b></b>	+	<b></b>
	<b> </b>		<u> </u>	vei	n	<del></del>		<u> </u>	<b> </b>	· · · · · ·				ł	+	<u>+</u>

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ntario niling Co	00407	Log		Collar Elevation	Secting of hole from that North	Total Footage	Dip of Hole et	Incatio	a of hole is	relation to a		I Man Refe	Fill in or every pr prence No.	nge 🛡 Si	le No. C-84-1 jim No.	Page N 9
	•••	OREX DRILLING LIMI	TED		1950	446	Center   -45°	fixed p	oint on the	claim.		<b></b>			1340	
ate Hole		Date Comple	eted	Date Logged	Logged by	449		1 1		1 1		Location	(Tup, Lot,	Con. or Lat.	and Long.)	
	BER 9, 1		ER 10, 1984	DEC 10/84	LAURENT HA	LLE	446 m - 54°	- 1				250'5	, 250'W	. of P-	1 631340	0
ploratio	n Co., Owne	r er Optiones		Date Submitted	Submitted by (Sig	neture)	<u></u>			4			TOWNSH			
• •									63134	0		L				
QU	INTERRA	RESOURCES INC.										Property	Name NITE CRI	EEK.		
		1	r		Description		<u>n </u>		1 7	<del></del>	- Female	Footage		AU	Assays †	
From	To	Rock Type		Colour, gr	Unscription In also, texture, mineri			Planar Resture Angle	Core Boscimen Fastage 1	Your Bemple No.	From	To	Sample Length	PPB	T	T
	292.1	Mafic Tuff.	-dk green, ch	loritic alter	ration, cont	act 450 to	C. A.			051347	291.0		1.1'		+	1
_			291.3 -	292.0 - 30-	40% cubic py	, imm in si	ze.	1	t							
								1	[						1	I.
92.1	304.8	Mafic Crystal	-lt green-grey	y, foliation	$50^{\circ} - 60^{\circ}$ to	C.A.										
		Tuff.	297.0 -	301.4 - high	hly talcose	and green c	arb alteration.				_					
			301.4 -	<u> 304.8 - car</u>	bonated and	silicified.									<u> </u>	L
_	ļ							l	ļ					L	┿───	<b></b>
304.8	316.4	Altered Rock.	-pink_altered					<b></b>		051348		309.4	4.8'		<b>↓</b>	<b></b>
-	f	<b></b>	-some narrow o	<u>quartz veins</u>	at 45° to C			<b></b>	[	051349			5.0'	160	<b></b>	<del> </del>
	ł							<b> </b>		051350	314.4	316.4	2.0'	100		<b>+</b>
	<u> </u>		311.4 - 312.2	- chloritic	zone with Q	CV's.		<b> </b>	<u> </u>	<b>↓</b>		<b> </b>	ł	┟────	<u> </u>	<b>↓</b>
116.4	334.0	Mafic Crystal	-highly lamina	and 450 to 6	•			<u> </u>		łł		<u> </u>	<del> </del>	<u> </u>		+
	1334.0		319.5 - 322.0			6 07				051351	310 5	322.8	2 21	100-	0.015	1.1
••••	<u> </u>		312.1 - 321.8			3. pj			ł	1031331	519.5	1 122.0		400=	10.012.1	azira
	1		325.3 - 325.6					1		051352	324.3	328.1	3.8'	0.031	oz/ton	<del></del>
			326.1 - 326.5			·····						1		2.071	T	1
_										051353	329.7	333.8	4.1'	720∓	0.021 0	1/ton
34,0	356.9	Crystal Tuff/	334.0 - 340.2	- green cart	oonate and s	ilicified t	uff (?) with								1	T
		Green Carbonate &					feldspar grains.									1
		Silicified Rock.			يهيكك المتعاد فالقاق والمستجماتات	. pinkish-b	rown colour with									<b></b>
					<u>s reddish.</u>										<u> </u>	<b></b>
	l					<u>mat'l with</u>	QCV and fuchsite.						· · ·	<b></b>	<u></u>	
			341.3 - 341. 8											<b> </b>	<b>↓</b>	┫━━━━
	<b> </b>		344.4 - 345. 7											<b> </b>	╂────	┫━━━━
-	<u> </u>	<b> </b>	345.7 - 346.9 346.9 - 347.6	<u>t - folded, e</u>	reen-grey.	carbonated.	<u>.</u>			┝───╋				<b> </b>	<del> </del>	<b></b>
	f		347.6 - 348.0				***		·	┝╼╍╼╍┥				<b>├</b>	+	t
•	<u> </u>		348.0 - 351.7	- reddieh al	tered crust	al tuff				┝╼╼╼┛╉	-,				<b>├</b> ───	<b>├</b> ───
			351.7 - 356.9	- contact at	750 to C.A	. contorted	(folded) grey-			<b> </b> -				┟────	t	t
					stal tuff wi									<b>├───</b>	t	t
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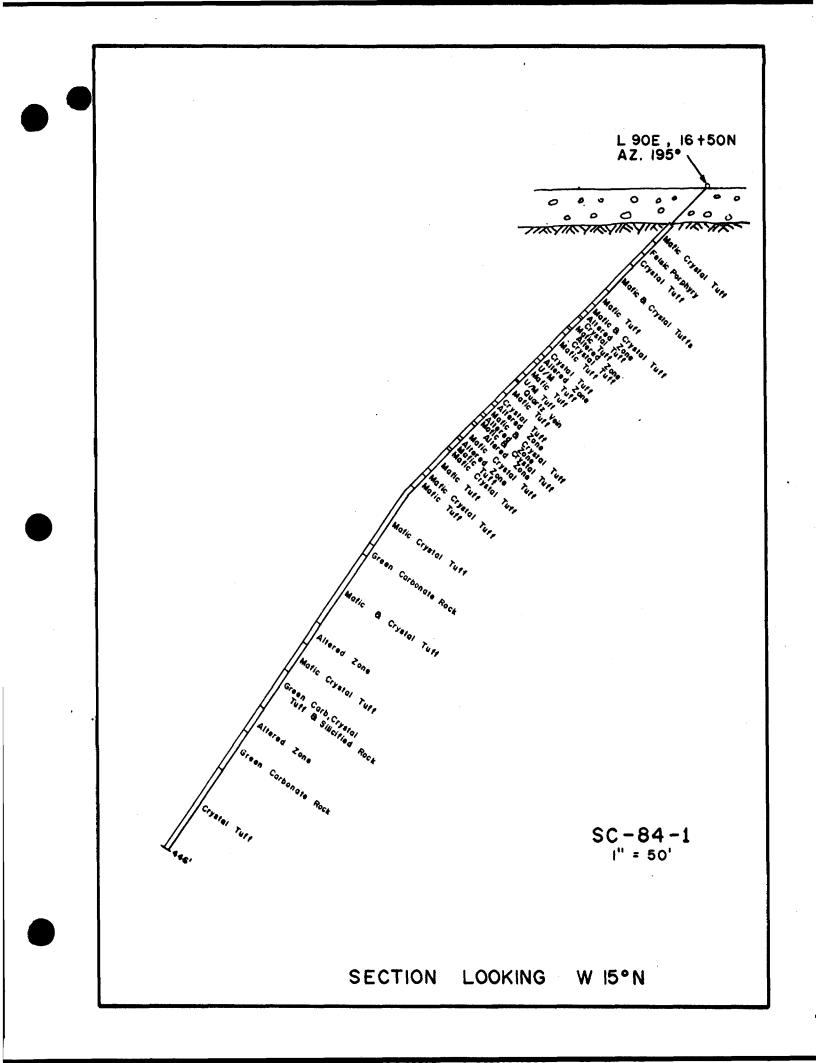
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tano		Log					<u> </u>						Fill in el	00 🛡 S	le No. C-84-1	Page No 10
illing Co			•	Collar Elevation	Search of here have		Dip of Hole at	Locati	on of hole i	n relation to	•	Map Ref	erence No.		im No. 1340	
te Hole	N	OREX DRILLING	LIMITED	Dete Logged	Logged by	446	Coner   -45°					Lasatian	and the f		and Long.)	
	BER 9.		CEMBER 10, 1984	DEC 10/84	LAURENT HA		446 m - 54°			H			• • ·		•	
ploratio	n Co , Own	r er Optionee		Date Submitted	Submitted by (Sig	insture)	1 nl '	' <b> </b>		1.			TOWNSH		1 63134	U
							n1		63134	10						
QU	INTERRA	RESOURCES INC	•				· · · · ·					Property	Name NITE CRI	EW		
fa	otage		1		Description		<u>n </u>					Footage			Assays 1	
From	To	Rock Type		Colour, gr	Description in size, lanking, miner			5.000 6.000 6.000 6.000	Core Bescimen Febuge 1	Your Semple No		To	Sample Length	AU PPB	T	T
	371.3	Altered Rock	. 356.9 - 359	.0 - green-bro	whish to gr	een-grey, co	ntorted, carbo-	1	1		1 7,0,			110	1	+
		Ì		nated and	l siliceousl	y altered;	olded texture.	1		051354	356.0	361.0	5.0'	117		1
			359.0 - 364	.3 - green-red	altered ro	ck with well	developed lami-				361.0			82		I
						exture (kin	(folds), fine				362.5			115	I	
				diss. py.				L	ļ	051357	366.0	370.0	4.0'	180	<u> </u>	<b></b>
	<b> </b>		304.3 - 30/	<u>./-greenalt</u> finediss		well laminat	ed 60°-70° to C.A.	4	ļ	<b> </b>		ł	l		┿────	╉───
			367 7 360	.0 - green-red		<u> </u>		<u> </u>							<b></b>	4
		}	369 0 - 371	3 - brown-oro	allered as	above.	lorite, quartz	<del> </del>	<u> </u>	ļ		}	<u> </u>		+	+
				veins.	en alleley	LUCK WICH CI	torice, quartz		<u> </u>	<b> </b>		1			t	t
								<u> </u>	<u> </u>						t	1
371.3	396.9	Green Carb Ro					d rock; 10%-15%			051358	380.3	385.3	5.0'	18	1	1
			amphibole	and pyroxene c	rystals, 10	<b>L</b> white felo	spar phenocrysts.									
107 A		0	<u> </u>												<b></b>	∔
390.9	440.0	Crystal Tuff.		ered, chioriti .6 - more chlo	c and carbo	nated; it gi	een-grey colour.	<b> </b>	ļ	<b> </b>		Į			┥───	<b>_</b>
			401.5 - 405	0 - coarse gr	ricic, calco	050.	······································	ł	<b> </b>			<u> </u>	I		╉────	+
				0 - pink alte								<del> </del>			+	+
			442.0 - 443	.0 - pink alte	red.			1	t						+	+
								1	l			1			1	1
	446.0		End of Hole	,	· · · · · ·					<b></b>		1				
							1									
															Į	
							• • • • • • • • • • • • • • • • • • •					ļ			<b></b>	<b></b>
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Ontario	Resour	Lo												Fill in oil every pag	•♥ sc	e No. -84-2	Page No 1	
Drilling C	ompany				Coller Elevation	Dip of Hole at	Locatio	n of hole is	n relation to (	•	Map Reference No.			Claim No.				
ate Mole	Starled	NOREX DRIL	Dete Compl		Dete Logged	Logged by	516.1	Coller   -45°	fixed point on the claim.			ר			631341 w Lat. and Long.)			
	BER 11,	1084		ER 12, 1984	DEC 12/84							1						
		er or Optionee	DECEND	CR 12, 1704	Date Submitted Submitted by (Signature)				<b>F</b>				250'E. of P-4 631341 L94+50				E. 21N.	
	• -								63I341				TOOMS	TOWNSHIP	•		•	
ÖUJ	INTERRA	RESOURCES	INC.										Property P	lame				
												J	SYLVAN	ITE CREE				
Fe	oolage	Rock	Tunk		Description				Planar Fasture	Com	Your	Semple	Footage	Semple		Assays t		
From	To			L	Colour, grain size, tarture, annorais, otoration, etc.					Core Boscimen Foruge 1	Sample No.	From	To	Length	u-ppb	Cu-ppm	Zn-pp	
0	70.0	Casing		Overburden.							I					1	<b>_</b>	
	+	19-01- 7-0		l				······································					ļ					
70.0	166.8	Mafic Tuf	[		, highly altered (talcose) with some zones of sili-						ļ					<b> </b>	╃────	
		+		ceous alter. 70.0 - 81.0							┫━━━━━┥					<u> </u>	<b></b>	
	+			81.0 - 90.0	- nign calc	zone.	1 . 1 .		<u> </u>							<u> </u>	<b></b>	
		1		90.0 - 104.6	- harder, mo	f							╂────	+				
		1		104.6 - 107.0		with weakly					<u> </u>				<u> </u>			
		1		1	green chlo							-	1	1				
	1	1		1	to C.A.					·							1	
				107.0 - 108.9	) -dk green,	narrow QCV's	s less than	1mm @30°to C.A.	1								T	
				108.9 - 113.0	) -med green	colour.												
				113.0 - 113.9	-siliceous	qv.												
	+	L		113.9 - 118.2	green.													
				118.2 - 119.6	-contorted,	siliceous,	some small	fold textures.								<u> </u>	+	
		<u> </u>		119.6 - 123.	-green with	some veins	<u>of pinkish</u>	carbonate with			I		L			<b></b>	┥───	
	+	+		123 7 120 4	quartz.		<u> </u>	-	i				ļ				+	
				123.7 - 130.6 130.6 - 157.7	-mod. silic	ified with p	seudo-brecc	ia texture.			I			┣━━━━╋		+	+	
	1				157.0 - sili		-KLEY.								·	<u>+</u>	+	
	1	1		157.7 - 166.0			difeeous al	r!								1	+	
		1		166.0 - 166.8	-high talc	alteration.	ATALEVUS HI									1	1	
66.8	167.9	Semi-Mass:	ve	-talcose alte	red tuff wit	h 45-50% pyr	rhotite and	2% - 3% chalco-			b51359	166.8	167.9	0.91	5	380	3150	
		Sulfide.		pyrite.												Ļ	<b>_</b>	
	<u> </u>	<b>i</b>		166.6 -	166.9 - talc	rich with t	race sulphi	des.	ļ							<b> </b>	<b>_</b>	
67.9	168.9	Talcose Tu	iff	-highly talco	se tuff, sil	iceous alt'n												
68.9	169.3	Porphyry I	)yka					••									<b>I</b>	
	P. V / 1.3	PATRIALA 1	1051	-grev. 10% wh	re rera pp	enosin	<u>size</u> , trac	e diss. po.					·				÷	

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Intario	Resource	ces Drilling Log		Coller Elevation		10		<b>.</b>				T	Pill in al every pi	sc Sc	-84-2	Page No 2
villing C		NOREX DRILLING LIM	17 TED	CONTRACTOR	173°	516.1	Dip of Hole at Cetter [_45 ⁰	Locatio	n of hole k sint on the	claim.	•		erence Ne.	1	1341	
ale Hole	te Hole Started December 11, 1984 DECEMBER 12, 1984			Dec Logged Logged by DEC 12/84 LAURENT HALLE				{	IT.		ר	Location	(Top. Lot. (		ar Lat. and Long.)	
DECEM								ł	230					of P-4 631341		
ploratio	n Co., Own	er er Optionee		Dete Submitted	Submitted by (Sig	(asuta)	<u> </u>	j	1.	631341	1	TOOMS	TOLNCHT	Þ		
							n  .	7			1	TOOMS TOWNSHIP.				
QUI	NTERRA	RESOURCES INC.										Property Name				
- En		r	T	Description				-		T .	لي الم	SYLVANITE CREEK.			Assays t	
From	Te	Rock Type	1	Colour, gr	ain alla, tastura, miner				Beacimen Feelan 1	Your Bampie No.	From	Te	Length	Au-pob	Cu-ppm	
69.3	169.8	Cherty Tuff.	-alternating	1mm bands of	f chert and	po 60-70° to	C.A.			1	1					1
	I	[	·													
69.8	178.4	Mafic Tuff.		ome small bla						ļ		ļ	<b></b>	I	┢───	┢───
	╂	<u>}</u>	171.4 - white	<u>e stringer of</u>	. 00.					Į	┦────	<u>}</u>	┟────	<b> </b>	╂	<b> </b>
78.4	181.2	Coarse Mafic Tuff	-tuff or duk	(2) with a	arco anabib					<b> </b>	<b> </b>	<u> </u>	╂────	<b> </b>	<u> </u>	<b></b>
	101.4	Fooatse Harre Turi	1 - 1.5 cm 1	e (?) with coarse amphibole or pyroxene needles, ong, trace po,						┨────		<u>├</u> ───	<u> </u>	<b> </b>	f	t
······				······································	· · · · · · · · · · · · · · · · · · ·						<u>↓</u>				1	
81.2 1	183.3	Cherty Tuff.	-cherty tuff	with beds of	massive po	and cpy.; a	bout 50% po, 2-3%			051360	181.2	183.3	2.1'	14	610	1900
		<b></b>			<u>to C.A. vi</u>	th slumped t	exture. cherts are						L	L	<b></b>	
	<b>∲</b>		grey to blac	<u>.</u>								<b>↓</b>	╅━━━━	<b></b>	───	┣───
83.3	187.6	Mafic Tuff,	dice on a	veral OC str							ł	<u> </u>	╉────	<b> </b>	╉────	ł
	1.0		-0135. 00. 5	VETAL OU SLI	Ingels.					ł	<u> </u>	<u> </u>	<u>├</u>	<u>†</u> -	t	<u>+</u>
87.6	191.2	Cherty Tuff.	-cherty tuff	with semi-ma	ssive sulph	ides (po + c	py), some cubic			051361	187.6	191.2	3.6'	11	1040	1
			py., bedding	z 70° to C.A.	, tuff - bla	ack.										
01 2	242.1	Mafic Tuff.	<u> </u>					ł		ļ	<b> </b>	┨────	<u> </u>	╏	╂	┣
91.2	242.1	Haric luff.	-green.							<b>↓</b>	[	·	i		<u> </u>	╂───
42.1	308.9	Ultramafic Flow.	-partly grey	colour, med.	grain, par	tly black wi	th fine gr. size;			051362	242 1	245.2	13.11	15	†	+
			several rand	iomly distrib	uted OCV's:	olivine ric	h flow; po. diss.			051363		259.6		7		
				re, but conc	. in more so	chistose pla	ces: trace cpy.			051364		269.0		10		
										051365	the second s	278.5		<u> </u>	┟┷┷┷━	<u></u>
8 0	415 0	Ultramafic Flow.	-med ar area	dies po	DW. + Frees	CON . 60	al QCV's, some			<u>051366</u> 051367		302.5		30 84	┫━━━━━	┣
10.7	413.4	VILLAMALIC FLOW	big white fe	ldspar crvet	als.	UPJ . j BEVET	ar yov's, some			031307	201.2	200.9	ليتقعمهم	- 04	h	t
			320.2 - 327.3	-u/m tuff w	ith fuchsite	e alt'n.				051368	312.3	317.3	5.0	3		
			327.3 - 330.0	) - grey u/m t	uff with fel	ldspar alter	ation; big									
					ein + quarti											
50	410 0	Illtmanofic m.fr	1.										<b>├</b> ────┤		<b> </b> '	┣──
15.9 4	419.0	Ultramafic Tuff.	-dk green, hi	ghiv altered	with chlori	te diss. p	Y						L		L	L

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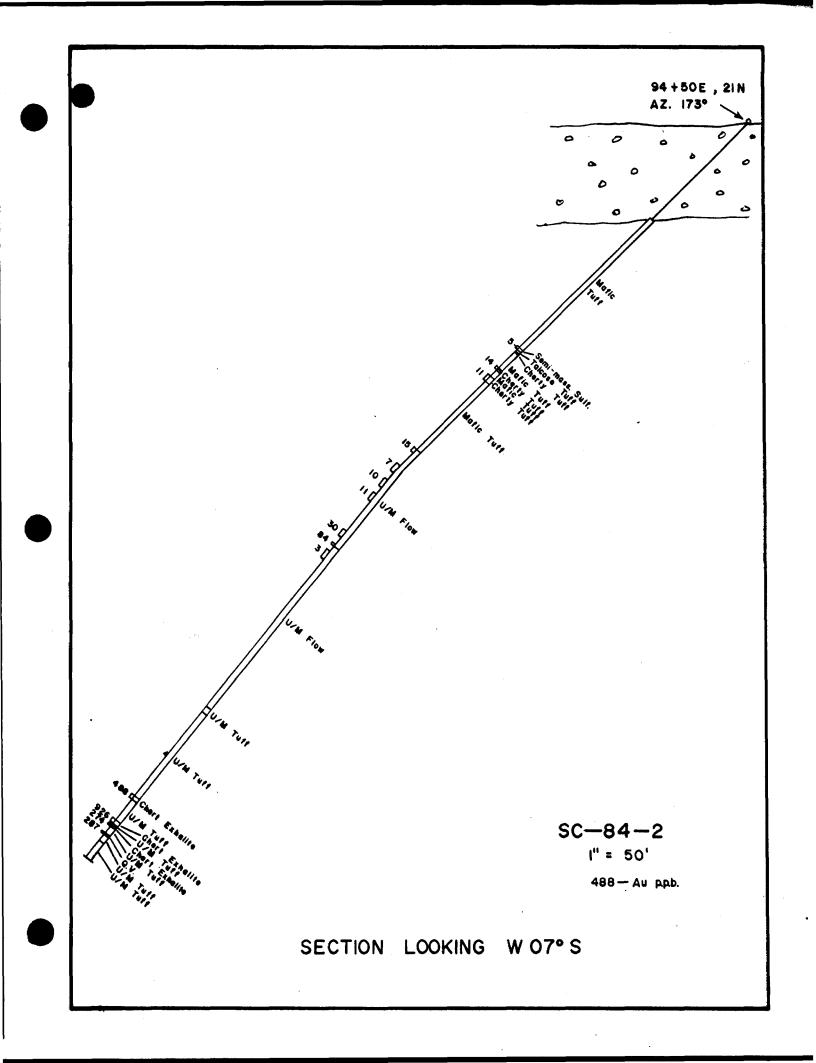
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<b>?</b> ) Nat	ais sy Itural	Dritting					•	,	•		. * .*	•			• .		
ario Ret	Source	Log											Fill in ei every pi		le No. C-84-2	Page No 3	
Illing Company Coller Elevation NOREX DRILLING LIMITED					the last last last last last last last last	Total Footage 516.1	Dip of Hole at Coner   -45 ⁰	Locatic Read p	pint on the	n relation to claim.	•				Claim No. 631341		
DECEMBER 11, 1984 DECEMBER 12, 1984 D			Dete Logged DEC 12/84 Dete Submitted	Logged by LAURENT HALLE Submitted by (Signature)		516 RI-502°		9) 21-			Location (Top. Lot, Con. or 250'E. of P-4 6313						
				ned Submitted by (Signature)				631341			TOOMS TOWNSHIP. Property Name						
Footage Rock Type					Description				Core Your Berinen Foriage T Bampie Ha		Semple	SYLVANITE CREEK.			Asseys t		
10m 1 9.0 475		Ultramafic'	-lt grey, mag	netic, sever	al randomly		guartz - feld.	Planar Feeling Angle	Passage 1	Sample No.	From	To	Length	Au-ppt	Au Oz/1.		
5.2 477		Tuff. Chert Exhalite	veins; highl							051260	475.0	477.0	2.9'	488	.015		
			texture; pin	k alt, and c	hloritic al		ly concorced	-			4/5.0	4//.5	- 2.9	400	+		
7.9 491		Ultramafic.	-as_above.												<u> </u>		
1.2 493	3.0	Chert Exhalite.	laminat	ed, highly c	ontorted or	folded, 5%	- 10% diss. cubic			051370	491.2	493.0	1.8'	926	028		
3.0 494		Ultramafic Tuff	-highly conto									ļ	<b>†</b>		+		
4.5 495 5.2 500		Chert Exhalite. Ultramafic Tuff		inated, pyri	tic, quartz	vein, conto	rted texture.			051371	494.5	495.2	0,7'	274			
0.1 501		Chloritic Zone	-as above.	ne with high		ation nink	altered, 5%-6%			051372	500.1	501.2	1.1	287			
		Quartz Vein.	cubic py.				arcered, 34-04										
1.2 <u>505</u> 5.0 <u>516</u>		Ultramafic,	-grey, as abo														
5.0		Ultramafic.	-preen carb. End of Hole.	ait, with se	veral OV's.								ļ				
															1		
	=‡														+		
	#		1														
			1					11								í T	

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Diamono Drilling

Hole Ne. Page No. Log Fill in on SC-84-3 every pepe 1 Drilling Company Collar Elevation Bearing of hete tree Total Footage Location of hole in relation to a fixed point on the claim. Map Reference No. Claim No. Dip of Hole at 2050 648670 NOREX DRILLING LIMITED 446 <u>com |</u>_45° Date Hole Started Location (Twp., Lot, Con. or Lat. and Long.) Date Looged Logged by 446 AL4410 DECEMBER 14, 1984 Exploration Co., Owner or Optionee 648670 **DECEMBER 15, 1984** LAURENT HALLE DEC 15/84 80'E, 620'N of P-3 648670 **Date Submitted** nI TOOMS TOWNSHIP. L65+00E, 19+50N. n QUINTERRA RESOURCES INC. Property Name 12 SYLVANITE CREEK nI. Asseys t Footage Core Specimen Foruge 1 Sample Footage Semple Description Your Rock Type Te Colour, grain size, tarture, sunorsis, storation, etc. ample N Length From From To Au-nnb 131 Casing. Overburden. Ō 20.6 13 Mafic Tuff. -dk green, trace py. 16.8 - 2" vein or felsic fragmental, rich in silica, some py. 20.6 21.6 Dark Tuff -5% - 10% py. 21.6 27.0 Silicified Mafic -diss. pv., some OV's. 25.1 - QV 1" wide with py., 75° - 80° to C.A. Tuff. 27.0 28.4 Silicified Mafic -coarse gr., 40% py. cubes 3mm - 5mm wide. 051373 27.0 28.4 1.4' 104 Tuff. -py. fg to 1cm in size, chloritic and siliceous alteration, narrow 28.4 54.8 [Mafic Crystal QV's 45° to 90° to CA., some folded textures. Tuff. 46.3 - 46.5 - brown carb. alt. 52.3 - 52.4 - """""""" -banded reddish chert and magnetite 75° to C.A., 10% - 20% py. 54.8 60.2 Cherty Iron 051374 60.8 6.0' 111 54.8 Formation. 60.2 85.3 Crystal Tuff. -lt grey with white feldspar crystals. 76.8 brown carb. alt. 79.0 - 79.4 - QV. trace py, 94.9 Dark Tuff. _dk green, 5% py - po. stringer texture highly magnetic trace cpy. 85.3 051375 85.3 90.3 5.01 100 051376 90.3 94.9 4.6' 32 94.9 100.1 -lt green mafic to ultramafic tuff. Crystal Tuff. 100.1 103.5 Dark Mafic Tuff. -dk, up to 30% cubic py. to 0.8cm in size, some narrow QV's. 051377 101.0 103.5 2.5 33

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Diamono Drilling

Minis Ay of Natural Resources Loa

rilling C				Collar Elevat	on bearing of hote tree	Total Footage	Dip of Hole at	Locatio	on of hole is	relation to a	)	Map Role	rence No.	Ciai	-84-3 m No. 8670	<u> </u>
ele Hole	NOI Buarled	EX DRILLING	LINITED	Date Logged	Logged by	440	<u>coner  -45°</u> 446 R  -443°				)	Location	(Tup., Lot, C			
DECEM	BER 14.	1984	DECEMBER 15.	1984 DEC 15/		ALLE		-	6	48670		80'E,	620'N of	E P-3 64	48670	
						.ge.e.e.	<u> </u>	-	TV.			TOOMS	TOWNSHI	Ρ.		
QUIN	TERRA RE	SOURCES INC	•					1	120			Property I SYLVA	NATE CRI	EEK.		
Fo	otage	Rock Ty			Descriptic	м		-	C	Your	Sample	Footage			Assays 1	
From	Ta	HOCK IT			r, grain sign, tarbuts, inco		<u> </u>		Con Sections Ferrise 1	Sample No.	From	To		Au-nph		
33.5	128.0	Grey Cryst		rey, no sharp con	tact; must be	ultramafic	tuff,diss-trace									
	Į	Tuff	ру.					4				ļ			<b>↓</b>	┥—
				- 111.6 -siliced	us					Ii		ł			┢───	╂───
0 0	138.1			5.08			0111-		l			+		1/2	<u></u>	<u></u>
20.0	120.1	Cherty Iro		reen, 50% popy						051378		and the local division of the local division	_	163 215	┢────	1
	<b>{</b>	Formation.			e with Dy., s to C.A., some		e well bedded 40°	┥───		051379	133.0	138.1		112	╉─────	┢──
	t				CO GIAL SOME	TOTO CEALON	<u></u>	+	<u> </u>	i					<u>├───</u>	<u> </u>
38.1	149.4	Crystal Tu	(f1t g	rey, white felds	ar; green car	b. @147'.										
9.4	152.8	Silicified	-grad	ual contact, 40%	- 50% DV., se	veral small	3cm wide QC vein,			051380	149.4	152.8	3.4'	274	┨────	╋
	1	Mafic Tuff		texture and mine		···.			·			1			<u> </u>	1
			152.6	- 153.0 -QV, 160	m wide with p	y., lineatio	n or bedding at		1			1	1			
				o C.A., some gree				1								$\square$
2.8	169.1	Mafic Crys	tal -gree	n carb. altered (	rystal tuff w	ith trace py	·· QCV's of 0.5cm			i					<u> </u>	
		Tuff		py., QCV's at 70												
	<b></b>			- 163.2 -grey ma											<b></b>	1
	Ļ			- 167.0 -green o		stal tuff.							L		<b></b>	<b>I</b>
_	ļ		167.0	- 169.1 -grey ma	fic tuff.							ļ			<b></b>	∔
9.1	181.9	2		1.00		1									┟────	
	1101.9	Dark Green Mafic Tuff		- 40% py., wide c cherty beds 1mm		lineation 70	- to C.A.	<b></b>		051381				130	<u> </u>	╉───
	{	matic IUII		- OV 5cm wide wi						051382 051383				346	<u> </u>	<del> </del>
			175.5	- 176.1 -QV with	30% py., tra	CA CDY.	<u></u>	+		دەدىدى	1141		4.0'	140	<u> </u>	t
	<b>.</b>		176.9	- 178.1 -OV zone	. 30% pv +*	ace cov.	· · · · · · · · · · · · · · · · · · ·	1							t	$\mathbf{t}$
			181.0	- 181.9 -QV zone	<u>, 307. – 357. p</u>	y., trace cp	7									$\square$
81.9	186.3	Crystal Tu	tf1t e	reen-grey, white	feldspars,											⊨
36.3	188.3	Mafic Tuff	-dk g	reen, 5% - 10% py	., lineation	65° to C.A.,	some cubic pv.		<b></b> **	051384	186.3	188.3	2.0'	163		匚
			0.7cm	wide.											<b></b>	

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Ontario Asieis Ay of Natural Resources Diamono Drilling

Intario		Log									<u> </u>	Full in al	00 🕈 SC	<b>le No.</b> -84-3	Page H
	iompeny NO	REX DRILLING LIM			Total Footage	Dip of Hole at coner [-45 ⁰	Locatio	on of hole is	cielm.	•	Map Reli	rence No.		im No. 8670	
ele Hok	Started	Dete Co	mpleted	Date Logged	Logged by		7	1			Location	(Top. Lot, C	ion. or Lat	and Long.)	
DECEN	BER 14.	1984 DECE	MBER 15. 1984	DEC 15/84	LAURENT HALLE	446 RL4430	1	6	648670		8018	620'N o	F P_3 6	48670	
plorati	on Ce., Own	er er Optiones		Date Submitted	Submitted by (Signature)	<u> </u>	-	TYS				TOWNSHI			
QUIN	ITERRA RI	ESOURCES INC.						1 3			Property	NAME NITE CR	FFK		
\$1	otage	1			Description		-	L Com	Your	J Semok	Footage	Semple		Assays 1	
From	1 70	Rock Type		Colour, gr	tin alla, Barbura, Annancia, Altaration, att.		Planer Peature Angle	Con Section Ferrups	Bampie No.		Te		Au-pph		T
88.3	191.8	Crystal Tuff.	-lt grey.	······································											1
91.8	192.6	Cherty Tuff.	157 207 01		cof tolo oblemite ale		<b> </b>	<b> </b>		<u> </u>	+	<u> </u>			╂───
	+	Junerty Tull.	-bedding at 7	., some zone	sof talc-chlorite alt.			<b> </b>	051385	191.8.	<del>  192.6</del>	0.8	- 75	+	<b>+</b>
	+	- <del> </del>	-veduring at /	<u> </u>			+	<b> </b>	ł	<b> </b>	ł	<u> </u>		1	+
92.6	194.5	Crystal Tuff.	-lt grey.			*	1	<b> </b>	1	<u> </u>	†	t		1	1
				······································			1		t		t			1	1
94.5	198.5	Cherty Tuff.	-contact 50°	to C.A., 157	- 20% py., fine beddin	g to imm of cherty			051387	194.5	198.5	4.0'	52		1
			mat'l., may	be some frag	ments.		1	1			1			}	
								1							T
198.5	199.3	Dark Mafic Tuff	as before.								I				
															$\bot$
99.3	201.3	Dark Green Tuff	<u>-5-10% py. s</u>	tringery tex	ture, some po.				051388	199.5	201.3	1.81	_22	4	
201.3	224.5								<u> </u>	ļ					<b></b>
	224.5	Crystal Tuff.	-green carb.	<u>alt., &lt; 1% py</u>	diss.		<b> </b>	L	ļ		<b></b>	ļ	L		╉───
	+		212.0 - high	green carb.	alt.			<b> </b>			<b> </b>	ļ			
			218.3 - 224.5	-coarse cry	stal tutt.		ł		<b> </b>	ļ		<b>{</b>			+
24.5	225.0	Siliceous Rock.	-5% - 10% fin	A DY							f	<u> </u>			-
	1			<u> </u>			1		t		<u> </u>	1		1	1
25.0	230.5	Green Mafic	-green, mafic	. 10-15cm OV	with 5% coarse py. 0.8	Icm wide-			D51389	225 0	227 0	2 01	221	1	1
	1	Crystal Tuff.		A CONTRACTOR OF A					D51390				37	1	
											<u> </u>				Γ
30.5	234.3	Mafic Tuff.	-3-5cm wide Q	V's with 5%	- 10% coarse py,				D51391	230.5	234.3	3.81	223		
			231.8 - 232.4	-Iron Format	tion with chert, py, an	d magnetite									
	<u> </u>	<u> </u>		banding at	45° to C.A.									<b></b>	
34.3	234.6	Cherty Tuff.	-well laminate	ed, pyritic.			┟──┤		D51392	234.3	236.3	2.0'	243	1	<u>†</u>
34.6	236.3	Mafic Tuff.	10.15 0"		· · · · · · · · · · · · · · · · · · ·	·····								<u></u>	<b> </b>
		maric lutt.	-10-15cm QV w	ith coarse p	Y. Cubes.		<b>├</b> ──── <b>┤</b>							+	╂
							┟───┤							┥────	╉────
		·												+	<del> </del>

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Diamono Drilling

Intario	Resourc	Log	*/*									Fill in on every pa	sc SC	e Ne. -84-3	Page No 4
rilling Co	NO	EX DRILLING L			Total Footage 205° 446	Dip of Hole at Coller [-45 ⁰	Locatio	in of hole is pint on the	n relation to a claim.			rence No.	64	im No. 8670	
ste Hole	Starled	Date	Completed	Date Logged	Logged by		7				Location (	Tup, Loi, C	ion, or Lat.	and Long.)	
DECEME	BER 14.	1984 DE	CEMBER 15. 1984	DEC 15/84	LAURENT HALLE	446 AL4430			48670		BOTE	620'N of	F P_1 6	68670	
ploretio	n Ce., Own	er er Optionee		Date Submitted	Submitted by (Signature)	N(		-Ked			<b>1 1 1</b>	020 H U	5 0	40070	
•						N	רי	ΤΥ.			TOOMS '	TOWNSHII	Ρ.		
QUINT	TERRA RE	SOURCES INC.					- I ·				Property P	INTE CRE	EK.		
Foc	tage				Description		Puner	1 Cara	Your	Semole	Footage	Samole		Assays 1	_
From	Te	Rock Type		Colour, gr	the size, tarbure, minerale, stierenten, str.			Care Sancinge	Bample No.		To	Length	Au-pph	T	T
236.3	246.9	Dark Green	-dk green, 3	-10% py. 107	po, as small blebs.				051393	236.3		5.0'	48		<u> </u>
		Mafic Tuff.	242.8 - 243.5	-OV stringe	ers of po. and py., trac				051394		246.9		118	1	t
		1			La VI pri Ann pyri ITAL	<u>e_cpy</u>	1							<b>+</b>	t
46.9	255 2	Cherty Tuff.	-chert beddin	e imm thick	90° to C.A., some foldi	no texture brown	+		051395	246.9	253.9	7.0'	206		t
		1	carb. alt.			INA SEALORES DIONI	<u>+</u>		051396	_			200	1	┢───
		1	-50% cubic py	. up to 0.50	m wide		╉╼╍╍┥	<u> </u>	031370	233.9	<u>},,,,,,</u>			t	t
			246.9 - QV 50	m wide with	DV		ł							t	f
			247.5 - 248.1	OVIA 609 7	DY.									<u> </u>	┢───
		{	249.2 - 249.3		UL CUDIC DY.									╂─────	╂
			250.4 - 251.0				łł				}			1	ł
			250.4 - 251.0	-gv s with	py									╉────	╉━━━━
55 2	258 6	Sulfidic Iron	-in part yell	haddad and	in part folded texture.	L.J. L.L.	<u> </u>		051397					<del> </del>	╉────
	230.0	Formation.		Decided and	po., 5-10% py., 1-2% c	nighty magnetic.	<u> </u>		1021387	_255.2	1.258.6	3.4	51	<u> </u>	┣──
			256.7 - 257.8	-bishly fol	ded	py	ł		Į					+	╆╾──
			257 8 - 258 6	-argary tor	ve sulfides - po.						<b> </b>				┣
					ve suitiges - po,										╉╼╼╼╼
58.6	264.2	Dark Green Tu	ffdk green, si	licified po	. Dy., trace cov.		ł		051398	258 6	264 2	5.61	71	f	
				5% po. with	stringery texture, 10-2	07			071070	270.0	- 204.2			1	<u>+</u>
			261.0 - QV 6c				t							t	╂
			263.4 - 264.4	-OV 10-407	cubic py. to 1cm wide.						<u> </u>				┣───
				411 10-104	cubic py. to item wide:		<u> </u>							t	┢───
64.2	269.1	Silicified Ma	fic -high silicen	us and carb	alt'n., 5-6% py. some a	s cubes to 0 5cm	<u> </u>		051399	264 2	260 2	5.1'	33	<u> </u>	╂────
	207.5	Tuff.	in size.	us and cato	art n., J-04 by, some a	s cubes to 0. Jun			031377	204.2	209.5	3.1			┢╼╼━
					······································		┨───┨		┠╌╼╼╾┥					<del>[</del>	╂────
60 1	277 0	Dark Mafic Tu	ff dk green tu	ffaceous 50	7 po., trace cpy., bedd		╞───┦		051400	269.3	274.2	6 01	53		<del> </del>
<u> </u>			tion. developed, p	o as string	a port clace cpy., bedu	ing is poorly	<b>├</b> ───┤		063501				130	t	
				V. as string	<u> </u>				003301	214.2	- 2//. 3	-2.1.			<b>├</b> ───
77.9	287.0	Silicified Ma	fichighly silic	ified 40-45	Z py. as stringers and	and a late	<u>   </u>		063502	277.0	282.0	5 01	73	t	<u>}</u>
	20/10	Tuff,	come ov	cubes to A B	cm wide, carb, altered.	mali velniecs.			063503				74	ł	<b> </b>
			281.4 - OV wi										- 14	l	<b>├</b> ──
							┝╼╼╌┥		├ <b>──</b> ─┤		<b> </b>			<b>├</b> ────	<b> </b>
			283.0 - 283.6	-UV WICH DY	[1[6				┟────┤						┣━━━
			284.0 - OV.		· · · · · · · · · · · · · · · · · · ·				<b> </b>					ļ	┣

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Diamona Drilling .

Ontario		Log											Fill in of every pe	94 🛡 S	c-84-3	Page N
Prilling Co	•••	REX DRILLING LIMIT	ED	Collar Elevation	205°	Total Footage 446	Dip of Hole at Conter  -45°	Locatio	n of hole is	n relation to a claim.	)	Map Rele	rence No.	-	aim No. 48670	-
ale Hole	Starled	Date Comp		Dete Logged	Logged by		446 AL4430	1	{		ł	Location	Tup. Lot, C	Con. or La	L and Long.)	
DECEM	BER 14.	1984 DECEMB	ER 15, 1984	DEC 15/84_	LAURENT HA	LLE		1		48670		80'E.	620'N 0	E P-3 (	648670	
tolorano	n ce., Own	er er Optionee		Date Submitted	Submitted by (Sig	jnature)	<u></u>	-	- 5ª0			TOOMS	TOWNSHI	D		
OUINT	TERRA RI	ESOURCES INC.					<u> </u>	j,				Property				
								•	1 3				NITE CR	EEK.		
Fo	otage	Rock Type			Description			Preser Fasture	Com Basciman Foruge 1	Your		Footage	Sample		Assays †	
From	To				ain also, tarturo, minor			Ange	Foruge 1	+		To	Length	<u>Au-ppt</u>		
87.0	311.3	Mafic Tuff.	-green, feld, 288,9 - 289,0	crystals. c	arb. altere	d				063504	293.0	295.4	2.4	138_		<b>}</b>
	╉╼────		288.9 - 289.0 293.0 - 294.0										{			<b>+</b>
	<b>├</b> ───	1		293.7 -QV's									}		+	
	1	1	295.3 - OV.		Provide Provid		·····	+			·					
		1	307.7 - QV wit					1							T	
			308.3 - 308.6	-OCV with p	y											
																<u> </u>
11.3	313.4	Mafic Tuff.	-highly folded	<u>mafic tuff</u>	, kink fold	ed.				J					_	<u> </u>
13.4	313.7	Felsic Dyke,	-5% coarse fel	denare con	**** 450 **	<u> </u>						ļ				┨───
13.4	515.7	reisic Dyke.	-JA COarse Lei	uspars, con				+				ł			-	+
13.7	317.0	Mafic Tuff.	-several QCV's	with 10-15	% DV.					D63505	313 7	317 0	3 31	656	-	+
			315.7 - QV 8-9							P07702		1		<u> </u>		
			316.8 - QV 5cm	n wide with	ру.											Γ
																L
17.0	321.8	Mafic Tuff.	-15% py. strir	ngers, some	QV's with p	<u> У •</u>	- • • · · · · · · · · · · · · · · · · ·			b63506	317.0	321.8	4.8			
21.8	337.9	Mafic Tuff.	1.		1 1 1 1 1		0111									+
	557.7	Marie Iurra	-lt grey-green 321.8 - 325.1					+		<b>↓</b>						<del> </del>
			325.1 - 328.6	-lt grey, c	oarse tuff	vith sil. al	t. some small QV's									
			1		75° to C.A.			11								
							and feldspar alt'r									
			330.7 - 332.1			alt'n.	• • • • • • • • • • • • • • • • • • • •									
			332.1 - 333.4	-kink folds	in tuff.										<b>_</b>	<b></b>
			333.4 - 337.9	-mafic crys	tal_tuff			<b>↓</b> ∔		└────┥						<b></b>
37.9	345.5	Silicified Rock.	high address	a alala 1	• • • • • • • • • •	·	- OVI- 60 709	╉╼╼╉		63607	111 0	2/2 0				<b></b>
		STITCITIC ROCK.	DV. Some #S				e QV's., 60-70%	╉───╉		<u>063507</u>	<u>, , , , c c</u>	342.9	2.0'	237	+	<b> </b>
			ATT SUME ()	LOUES LU IC	INTA SUME TU	LUEU LEXLUIE	<b>2</b> •	┼──┦							1	†
								<del>  </del>		┝╂						
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			1					11		1					1	T

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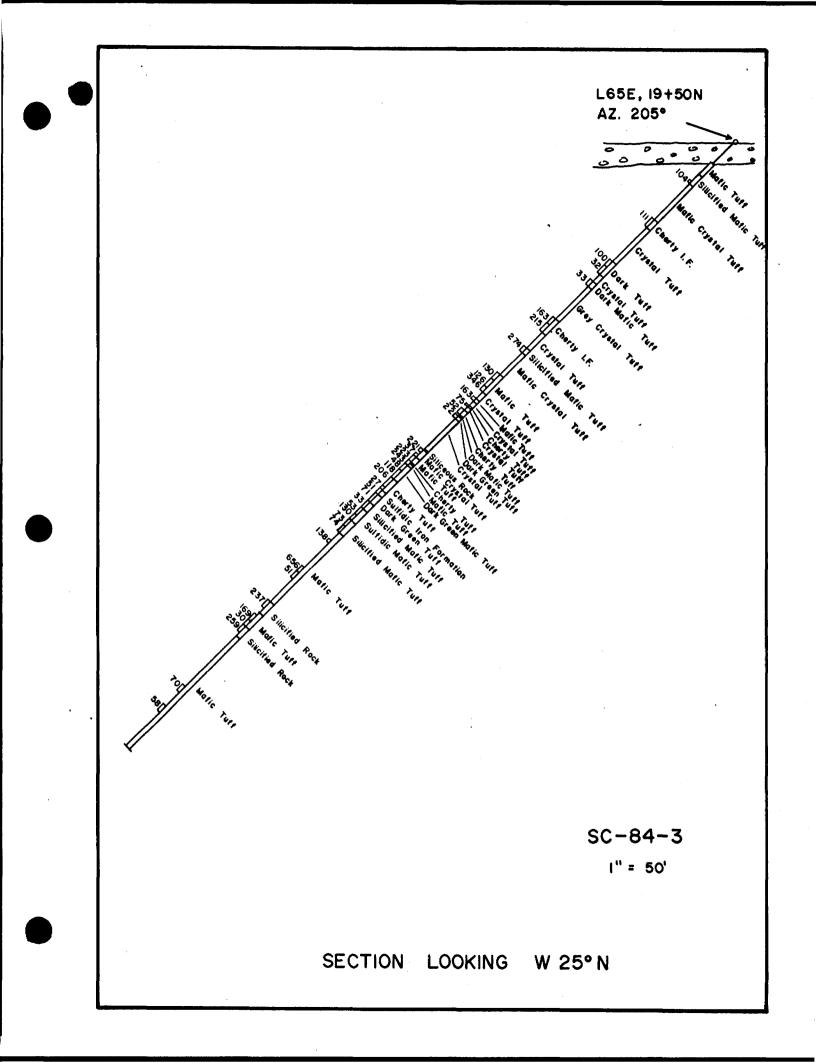
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· ·	NO Starled BER 14. n Co., Own	LI II I	G LIMITE Date Comple DECEMBE	0 Ned R 15, 1984	Coller Elevation Data Logged DEC 15/84 Date Submitted	LAURENT HA	446	Dip of Hole at control - 45° 446 PL - 444° PL	Locatio Red p		A relation to a take. 48670		Location ( 80 ° E ,	620'N O	100 ♥ SI Ci Ci Con. er Lei F P-3 (	bis No. C-84-3 sim No. 48670 L and Long.) 648670	<b>Page</b> 6
	Diage	Rock 1		ſ	L	Description		n		Jean Berrinen Ferupi	Your Sample No.		SYLVA Footage	Sample Longth		Assays t	
5.5	356.1 362.8	Mafic Tuff Silicified		-green, kink -highly silic wide.	folds, some	0V's 3-30cm	wide with p	v. some OV's 5cm			063508 063509 063510	From 348.3 353.7 356.1	<b>To</b> 353.3 356.1 361.1	5.0'	Au-ppb 169 30 259		
	441.1 446.0	Mafic Tuff Mafic Tuff		-lt grey-gree C.A., 2 sets -coarse, may	of OV's cut	ting each of	her.	0° to parallel to			063511 063512	400.6 415.2	405.6 420.2	5.0' 5.0'	70		
5.0				End of Hole.													
						· · · · · · · · · · · · · · · · · · ·											
				•													
		· · · · · · · · · · · · · · · · · · ·															Ē



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Diamono Drilling

Asia*is By* OF Natural Resources Log

Ontario	Resourc	Log	3												Fill in of every pe	9• 🛡 S(	c-84-4	Page No
Drilling Co	N	DREX DRILL				190°	Total Footage 427'	Dip of Hole at Coner (-45°	Loca	ation of a point	n the c	relation to a telm.	· 1		rence No.	6:	aim Na. 30745	
Date Hole I			Date Comp		Date Logged	Logged by		427 R - 505				630745		•			L and Long.)	
	BER 17,	1984 er er Optionee	DECEMB	ER 18, 1984	DEC 18/84	LAURENT HA						030143		280'E,	50'N of	[ P-3 (	530745	
This should be	n Ce., Own	er er Opuonee			Date Submitted	Submitted by (Sig	naturey	<u></u>			12			TOOMS	TOWNSHI	P. L14E	. 5N.	
	TERDA T	RESOURCES I	NC		1			<u>n</u> ]			344	× 30		Property				
4010	I DARA I	COURCES 1						nt	•		1				ANITE CI	REEK.		
Foo	tage			1		Description	· · · · · · · · · · · · · · · · · · ·	····			Com	Your	Semple	Footage	Semple	-	Assays †	
From	To	Rock	Type	· · · ·	Colour, gr	als also, tartury, divisor	sis, atteration, atc.		Processo Frank Ample	۳ <b>ا</b> ۲		Your Bampie No.	From	70		Au-oob		
0	661	Casing.		Overburden.														
				<u> </u>										ļ	Į			
66'	69.5	Silicified	1 Rock.	-siliceous, f	ine py, and	COarse Dy.	is cubes to	1cm. It creamy				063513	66	69.5	3.5'	11.		
				white colour -pinkish-brow		671 and 69												
				-princisii-brow		07 and 00.											+	1
69.5	72.3	Mafic Tuff	Ε.	-lt green, co:	arse grain	areen carb	altin tra	Ce ov., spotty										t
				texture.		LIEEN CALMA	ALL ULL LIS	LE DY SPOLLY		-1-							1	<u> </u>
																		1
72.3	74.6	Silicified	Rock.	-may be silic:	ified mafic	cuff, 1% dis	is. py. with	some as cubes	to			063514	72.3	74.6	2.3'	86		
				0.8cm.										I				
		ļ		83.6 - 84.1 -	QV with les	s than 1% py												<b>_</b>
74.6	75 0	Mafic Tuff												<b> </b>				+
74.0	13.0	Maric luri		-coarse graine	20.	· · · · · · · · · · · · · · · · · · ·								<b> </b>			+	+
75.0	81.6	Silicified	Rock	-may be silici	ified mafic	tuff It er	v colour. 0	.5% fine diss.	0.	-+		063515	75.0	81.6	6.61	37		+
		<u></u>		76.1 - 1cm wig	de OV 70° to	C.A.			<u></u>	-+-							1	1
				77.7 - 2cm wig	te OV 45° to	C.A.												
81.6	85.2	Pink Alter		-brownish-pin	<u>calt'n. le</u>	ss than 1% (	ine diss. p	y				063516		86.0	4.4'	7		
		Silicified	Rock.					*									<b></b>	<b> </b>
85.2	07.0	0.11 C.																
85.2	87.3	Silicified		$\frac{-contact}{20} = 1$			mail chiori	tic spots 0.1mm	<u>.                                    </u>									<b></b>
			~	00.0 - 07.0 -	sificeous.	grey-pink.		**************************************										╉─────
87.3	89.3	Dark Mafic	Tuff.	-dk green, med	ium coarse	grained.				+-							1	<u>+</u>
										-							1	
89.3	90.4	Pink Alter		-pinkish, sili	lceous, less	than 1% dis	s. py.		1			063517	89.3	90.4	1.1'	18		
		Silicified	Rock,															
																	1	
90.4	96.7	Mafic Tuff		-contact 45° t	o C.A., med	ium grained.											1	L
				90.4 - 93.0 -	narrow (1mm	) QV's @45°	and 70° to	C.A.										┣───

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Diamono Drilling

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rilling Co	N	OREX DRILL				See fing of balls from 190°	Total Footage 427 ·	Dip of Hole st Coner  -4	5 ⁰		n of hole is sint on the	n relation to claim.	•		irence Ne.	63	im No. 0745	
	Starled		Date Compi		Date Logged	Logged by		427 R-5				630745			(Tup, Lot, C		•	1
DECEM	BER 17,	1984	DECEMB	ER 18, 1984	DEC 18/84	LAURENT HA			· ·			030745		280'E,	50'N o	E P-3 6	30745	
pioratic	in Ge., Own	er er Optionee			Date Submitted	Submitted by (Sig		<u> </u>				a. 50'		TOOMS	TOWNSHI	Ρ.		
QUI	NTERRA I	RESOURCES 1	NC.								3	[		Property	Name			
			,		[	<u> </u>		N	`				_	SYLV	ANITE C	REEK		
_	otage	Rock	Type			Description				32	Com	Your Bampie No.	Semple	Footage	Sample		Assays	1
From	To			Į		in size, terture, siner				Angle	Fueldes 1	Bampie No.	From	To	Length	Au-ppt	·	- <u> </u>
96.7	103.3	Mafic Tuff		-coarse, cryst									<u> </u>		<b> </b>	ļ		<b>_</b>
	<b> </b>	+		97.7 - OV. 20								Į	ļ	Ļ	<b></b>	ļ	<u> </u>	+
	<b> </b>	<u> </u>		99.9 - 3cm wie	de quartz ca	rb alt, zone	<u>307 py.</u>					<b> </b>		<b></b>	f		<u> </u>	+
	╂			-some parts ha	ave a sporty	texture.		·····							┨─────		+	+
03.3	110.2	Mafic Tuff		-green, medium	m erained										<u> </u>	i	<u> </u>	+
	1			102.3 - 103.0		d with narro	WOV's at	0° to paralle	1 10			<b></b>		t	<u> </u>	· · · · · ·		+
	†	1			C.A. (fol		a vi g at		<u></u>					1	<u> </u>		1	+
	1		_									1		1	<u> </u>			1
10.2	112.5	Matic Tuff		-coarse grain	, lt green.													
12.5	113.5	Felsic Dy		-less than 1%	fine dice	ov. : : : : : : : : : : : : : : : : : : :	WI -							÷	<b> </b>	<b> </b>	┨────	
	1.13.2			Cas chan 1	rine diss.	VII SMALL V	<u>v 5.</u>							+	<u> </u>	}	+	+
13.5	122.0	Mafic Tuff	•	-contact 90°to	o C.A., fg,	green,		····				1		1				
	I																	
22.0	125.5	Mafic Tuff	•	-medium graîn.	•										ļ	I	<b></b>	+
25.5	127.3	Felsic Dy	ke.	-pink, diss, r	ov., contact	70° to C A						063518	125.5	127.3	1.8'	21	+	+
		1			VIII CONCALL	<u> </u>						007370	12313	1			┨────	+
27.3	137.2	Mafic Tuf	f.	-medium grain,	green.												T	
		L		133.5 - 2cm wi														
<u> </u>	<b> </b>	L		134.0 - 1cm st	hear with ch	lorite, 70°	to C.A.										<b></b>	┿──
37.2	138.8	Mafic Tuf	f.	-well laminate	d, banded m	fic mat'l		small magnet		{		063519	117.2	138 8	1.61	27	<b>}</b> →``	+
	1	1		crystals 0.1m	nn and 2-3% r	ov. in OV.	5000 VI 811	and I Maknet				~~~~		1.20.0		<u> </u>		1
								·····						1			1	1
18.8	145.3	Mafic Tuf	f	-fine grained,	green.												<b> </b>	<b>_</b>
45.3	147.2	Mafic Tuf	f.	-20% narrow. r	andomly orig	nted carbon	ate stringe	rs. some vein										$\pm$
				pinkish colou	ired.			<u> </u>										
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Diamono Drilling

Natural Resources

Drilling Co	ompany			Collar Elevation	Bearing of hats from	Total Footage	Dip of Hole at	Locatio	n of hole is	relation to a		Map Rele	every pe prence No.		-84-4 im No.	13
	N	OREX DRILLING_LIMI	TED	Collar Elevation	190°	427.	Coner  -45°	fland p	pint on the	cleim.				63	0745	
ate Hole		Date Com	leied	Date Logged	Logged by			•	1			Location	(Top. Lot, C	ion. or Lat.	and Long.)	
DECEM	BER 17,	1984 DECEMB	ER 18, 1984	DEC 18/84		LLE	427 R - 5030			630745			50'N of			
		er er Öptionee		Date Submitted			1 1	•				200.5	JO N OI	1 8-3 0	50745	
		<b>-</b>						-	_L'â	50'		TOOMS	TOWNSHII	₽.		
ÖUI	NTERRA I	RESOURCES INC.					<u>n</u>		34-			Property	Name		·····	
•								1				SYLV	ANITE CE	REEK.		
Fo	otage		1		Description	A		-	Care	Your	Semple	Footage	Sample		Assays 1	
From	To	Rock Type		Colour, gri	sin algo, tarturg, minar				Care Seasciment Persugn 1	Sample No.		To		ALL.PPA	T	T
147.2	150.2	Mafic Tuff.	-chloritic, fi	ne grained.	some hairli	ne carbonat	e veinlets.					†		100.000	1	1
	1		1	A								1	<u> </u>			1
150.2	154.2	Mafic Tuff.	-medium graine	d, green.				-					1		1	
			152.4 - quarta		ide.			1				1	1		1	
154.2	159.2	Mafic Tuff.	-coarse. It gi	een, foliati	ion 70° to C											
		1														
159.2	162.8	Mafic Tuff.	medium grain.	narrow carl	veinlets.											
			162.2 - 162.7	- 70% carb.	veins.											
162.8	163.6	Mafic Tuff.	-coarse grain	, narrow can	b. veinlets											
															1	
163.6	170.2	Mafic Tuff.	-medium grain	green, QCN	's with som	e pinkish a	lt.								1	
			167.0 - QCV 1									I				
			168.5 - 3 car	b. veins, 2m	nn - 1cm wid	le, 45° to C	.A.									
170.2	175.7	Mafic Tuff.	-medium grain	, green with	hairline c	arb, veinle	ts									
		<u> </u>														
175.7	177.7	Mafic Tuff.	-coarse grain													
_			176.1 - 2cm C	V 90° to C.	L											
																$\bot$
177.7	180.3	Mafic Tuff.	-fine grain.												<u> </u>	Ļ
00.0															<u></u>	<u> </u>
80.3	181.5	Mafic Tuff.	_coarse grain	becoming mo	<u>ore siliceou</u>	5									<b> </b>	<b>}</b>
81.5	100												L		ļ	┥───
01.5	190	Silicified Rock.	183.7 - QV 80	<u>1-27 diss. p</u>	y, with som	<u>e cubes to (</u>	).8cm			063520				85	╂────	∔
			185.3 - QV, 4		C 4			╉╼━━╋		063521					╉────	ł
			185.7 - 0V, 2					┥╼╍┥		063522				34	<b> </b>	ł
			189.7 - 00, 2 188.0 - 188.3			aubia av		╉───╉		063523	195.5	198.0	2.5		ł	<b>├</b> ───
	<u> </u>		100.0 - 100.3	- QV S WICh	IUA COarse	CUDIC DY.	<u></u>	╉──╉					┢━━━━━┩		<u> </u>	┢────
			t	····				╉╾╼╉					j¶	;	t	╂────
			ŧ	·····				-					<b> </b>	j	f	╉────

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Diamono Drilling

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Drilling C	omp <b>eny</b> N	OREX DRILLIN	LIMITED	Collar Elevation	Seatting of home from the last 190°	Total Footage 427 *	Dip of Hole at coner  -45 ⁰	Locatio	n of hole i pint on the	n relation to : claim.	•	Map Role	every pe irence Ne.	Cia	<u>-84-4</u> im No. 0745	14
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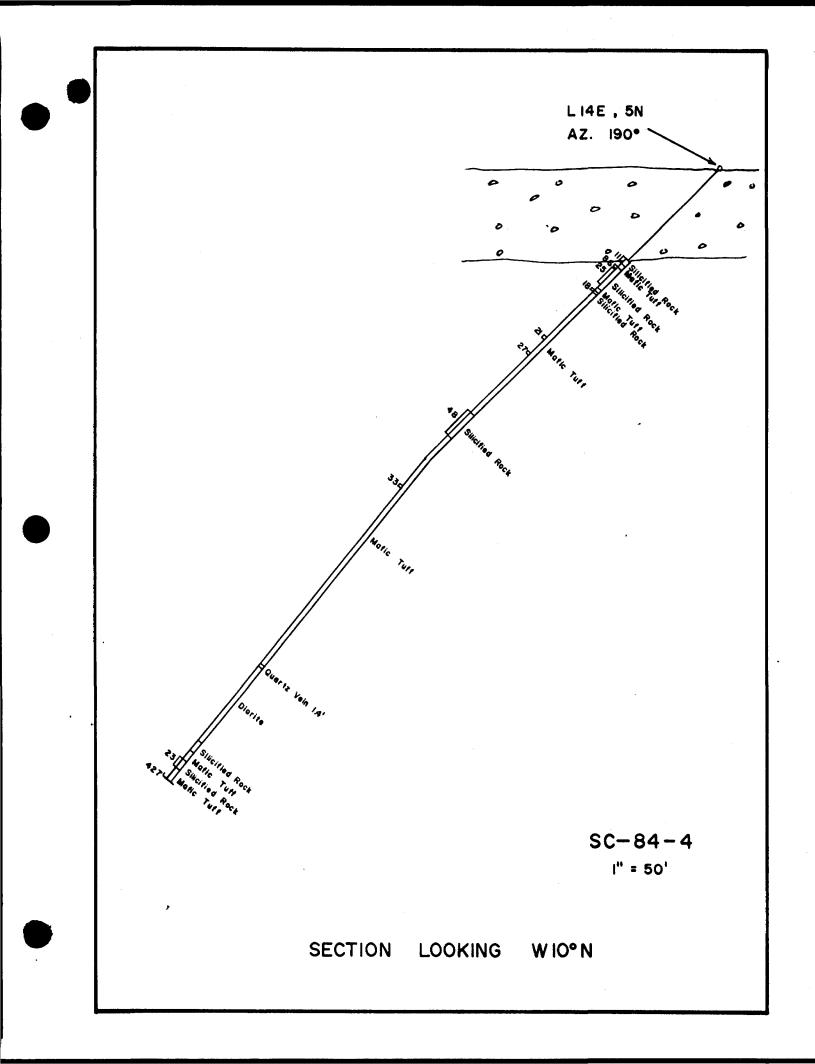
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1984

FINAL REPORT

OF THE

SYLVANITE CREEK PROPERTY

TOOMS TOWNSHIP

BY: RAY LASHBROOK.



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#### INTRODUCTION

The Sylvanite Creek Property was subject to a variety of exploration programs during the 1984 field season. Commencing in June with reconnaisance prospecting and linecutting it culminated on December 20th with the end of a 2000' diamond drill program.

This formalized report is composed of a summarized timetable and the detailed results of the various programs.

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## SUMMARY OF EVENTS 1984 FIELD SEASON

JUNE	-	reconnaissance prospecting - Ray Lashbrook. Jeff Butler.
	-	starting of linecutting on Sydvanite East Block.
	-	humus sampling on Sylvanite East Block.
JULY	-	set up and modify existing camp.
	-	continuation of linecutting on Sylvanite East Block.
	-	prospecting and mapping on Sylvanite East Block.
	-	mag and VLF started on Sylvanite "East" Block.
,	-	trenching - Trench Area #7, #4, "Core" claims.
	-	overburden drilling - "Core" claims.
AUGUST	-	linecutting finished on Sylvanite East Block.
	-	continuation of prospecting on Sylvanite East Block.
	-	continuation of mapping on Sylvanite East Block.
	-	mag and VLF finished - Sylvanite East Block.
	-	mapping and prospecting - "Core" claims Tooms Township.
	-	finish overburden drilling - "Core" claims Tooms Township.
	-	humus sampling - Tooms Township.
SEPTEMBER	-	Laurent Hallé hired for mapping.
	-	prospecting - Sylvanite East Block.
	-	mapping – Sylvanite East Block.
	-	trenching - L116E, 40S - Sylvanite East Block.
	-	prospecting and mapping - "Core" claims.
	-	prospecting and mapping - Halcrow Patents.
	-	Staking of 3 claims within Sylvanite Creek property 🖌
		formally held by Granges.

-2-

OCTOBER - linecutting - Tooms Township.

- start of I.P. survey Tooms and Greenlaw Township.
- staking of 4 claims east end Greenlaw Township.  $\checkmark$
- start mag VLF survey Tooms Township.
- prospecting and mapping Sylvanite East Block.
- prospecting and mapping Tooms Township.
- Airborne mag VLF survey.
- trenching and sampling Halcrow Patents.
- trenching and sampling South shore Betty Lake.

NOVEMBER - linecutting finished.

- mag VLF finished.
- prospecting and mapping finished.
- DECEMBER diamond drilling.

#### LINECUTTING

Linecutting was carried out in two phases, both contracted out to Norman McBride of Notre-Dame-du-Nord, Québec.

-4-

The first portion was started in June and continued until early August. This covered the claims in Greenlaw Township known as the Sylvanite East Block. It consisted of re-cutting the baseline and establishing at 400' centres north-south lines. Tie-lines were at 20N, 20S and 40S. The total cutting was 42.87 miles at a cost of \$12,216.68.

The second phase starting in October was the westward dontinuation of the first phase of lines into Tooms Township. It consisted of the continuation northward of the original lines cut in 1982 and new lines at 400' spacings to the south. This phase totalled 55.6 miles at a cost of \$15,198.00.

#### HUMUS SAMPLING

Two small humus sampling programs were done in two different areas. They were designed as orientation programs to see if a full humus survey could be justified.

The first program was located at the east end of the Sylvanite East Block next to the Noranda-International Rhodes boundary. It was to test whether narrow auriferous zones on the Noranda ground and suspected to continue onto Quinterra ground could be picked up by humus sampling.

The survey consisted of taking composite humus samples every 100' along lines 172E, 176E and 180E. A total of 43 samples were taken (see diagram).

In general most samples were easy to collect although the humus was not always easy to find. The humus was mostly thin and brown to black. The overburden in this area is mostly glacial till. Grabs were taken in a 25' diameter around the hundred foot pickets to fill a small envelope. The samples were dried and sent to Bondar-Clegg for analysis.

From the analysis it appears that the background level is less than 5 ppb Au. Eleven samples were above 5 ppb. One 3 to 4 times background anomaly stretches across 2 lines. The other 3 anomalous readings occur as single highs.

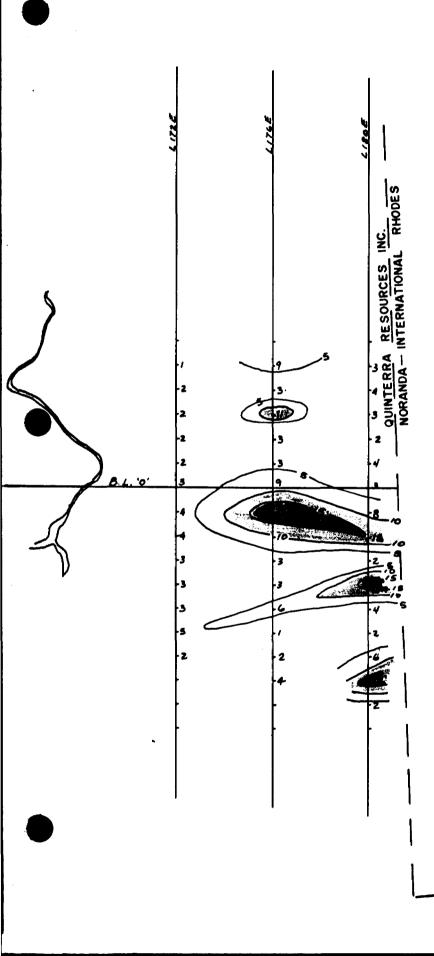
The one anomaly lies just to the south of a massive carbonate rock. This rock weathers a deep brown and is cut by numerous quartz veins. This anomaly may be the extension of the Noranda zone to the east. Further work such as trying to strip across the anomaly should be considered in 1985.

-5-

The second survey was conducted on lines 26E, 32E and 38E from 22N to a point where the lines hit Betty Lake or Big Chris Lake. A total of 96 samples were taken.

Background samples are again interpreted to be less than 5 ppb with 85% being equal to or less than 3 ppb. Only 5 samples were 10 ppb or above or 3 to 5 times background. The overburden in this area is mostly sand.

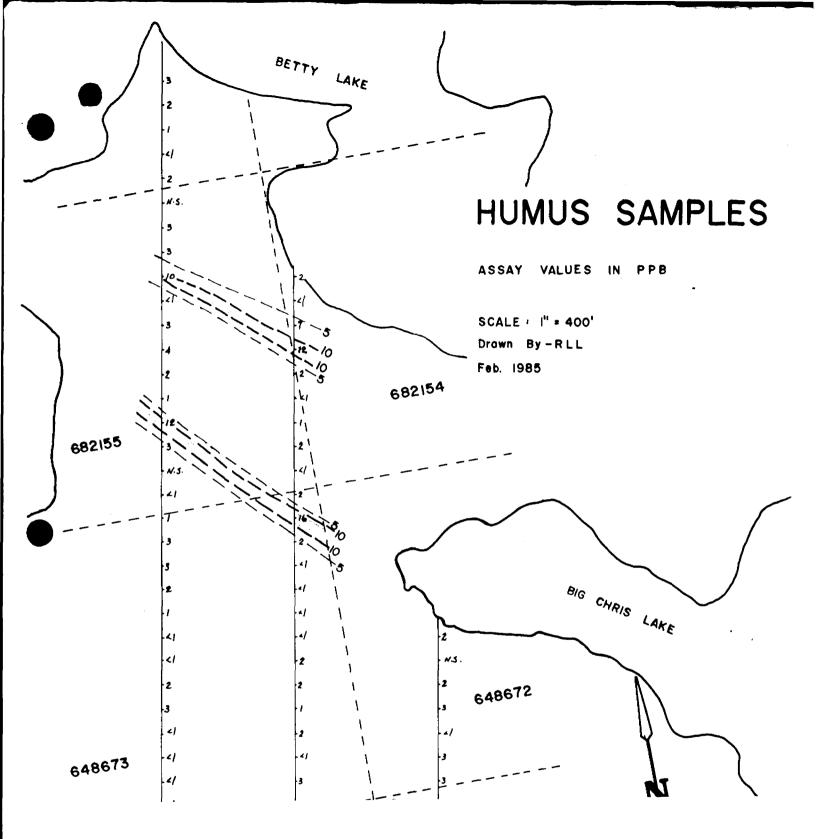
From the map it can be seen that 2 low, narrow humus anomalies exist in the north part of lines 26E and 32E. Due to the fact that they are parallel and in an area where the airborne survey shows a mag high - VLF conductor along the same north-westerly trend may lend credence to an anomalous bedrock source. Further sampling in this area on the new cut lines should be considered for the 1985 program.



# HUMUS SAMPLES

SCALE I" = 400'

Drawn By RLL Feb. 1985 Assay Values in p.p.b.



Bondar-Chegg & Company Ltd. 764 Belfast Road Ottawa, Onterio Chawa, Onterio Phone: (61, 1993) 3110 Felex: 053-4455

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REPORT: 014-2256						
FRON: QUINTERRA RESOURCES INC. Date: 06-SEP-84 Project: 074	SUBRITTED BY: RAY LASNBROOK					
LOWER ORDER ELEMENT DETECTION LIMIT EXTRACTION	METHOD SIZE FRACTION SAMPLE TYPE	SAMPLE PREPARATIONS				
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Bottlin-Clegg & Company Ltd. 764 Belfast Road Ottawa, Ontario Canada Lange 5 Phone: (c. 7-3110 Telex: 053-4455



### Geochemical Lab Report

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SAMPLE NUMBER	ELEMENT UNITS	AU PFR	NT/AU gn	।	NOTE	SAMPLE NUMBER	ELEMENT UNITS	AU PPB	NT/AU gn			NO
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Beater-Cing & Company Ltd. 764 Belfast Road Ottawa, Ostocio Canada 1005 Phone: (Control 7-3110 Telex: 053-4455



## Geochemical Lab Report

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Geochemical Lab Report

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011 012 013 014 015	6 1 2 4 2	LI76E-85 LIROE 95							
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028 027 028 029 030	2 3 4 <u>3</u> 2	<u>L180 - 5N</u> L172 - 75						•	
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038 037 038 039 040	4 3 2 2 2 2								

#### TRENCHING

From July to October trenching was carried out at (a) No. 7 Trench Area (b) No. 4 Trench Area (c) south shore of Betty Lake and (d) L116E, 46S. Also during the course of the summer and fall several old trenches were located and sampled along with the sampling of trench area 6.

#### (A) TRENCH AREA 7

Several trenches were put down in this area which had been bulldozed, partially cleaned and partly trenched during the 1983 program. A total of 163' in 8 trenches were done in 1984. All trenches returned anomalous Au assay's through to a high of 0.064 oz/ton Au ' 3' or 0.04 oz/ton Au / 10' (Tr. #7 "K"). These samples were in an area that in 1983 ran 0.10 oz/ton Au / 7' (Tr. #7L).

#### SUMMARY

TRENCH	LENGTH	AVE. AU (ppb)	HIGHEST
7A	42'	427	0.038 oz/ton/5'
7B	8 '	568	903 ppb/5'
7C	21'	545	0.036 oz/ton/4'
7D	21 '	281	543 ppb/5'
7F	28'	249	511 ppb/3'
71	5'	808	808 ppb/5'
7K	16'	886	0.064 oz/ton/3'

A break down by rock types gave the following results:

(a) Porphyry - 187 ppb, 7 samples.

(b) Massive Carbonated Rock - 12 ppb, 1 sample.

(c) Cherty - Pyritic Beds - 735 ppb, 3 samples.

('d) Carbonated Mafic and Ultramafic Tuffs - 555 ppb, 24 samples.

Also in this area several float samples of pyritic cherty tuff to massive pyrite gave an average grade of 0.07 oz/ton Au. The cherty pyritic tuff exposed in Trench 7B over a 5' width only ran 903 ppb. The float was different in that it contained more pyrite and had a higher tuffaceous and a lower cherty component.

#### (B) TRENCH AREA 4

This area had been bulldozed the previous year, but not trenched. Four trenches totalling 38' in length were blasted in July 1984. The highest value was 140 ppb while the average of all 8 samples was 72 ppb.

#### (C) SOUTH SHORE BETTY LAKE.

An old east-west trending trench was located on the south shore of Betty Lake during the mapping of the shoreline. It was put down on an east-west trending quartz-carbonate vein up to 3' wide with a highly carbonated zone to 4' wide on the south and up to 6' wide to the north. The north contact of the carbonate altered rock was concealed by overburden and/or Betty Lake. Minor disseminated pyrite and splotches of chalcopyrite were seen in the vein. The sharp south contact of carbonate alteration with mafic volcanics probably represents a rock contact between an ultramafic rock and the mafic tuffs and flow breccias. Minor quartz-carbonate veins trend parallel to the main vein and up to 20' south.

Assays were low with the highest being 56 ppb while the average of 8 samples was 15 ppb.

-8-

(D) L116E, 46S

A 13' x 2' x 18" trench was blasted across a VLF conductor at this location. The cause of the conductor was a 2' band of 30% pyrite in a  $8\frac{1}{2}$ ' schistose sericitic zone. The average of 4 samples was 5 ppb while the highest was 12 ppb from a quartz blob within the sericitic zone.

#### OTHER TRENCHES

#### TRENCH AREA 6

This area was bulldozed, trenched and sampled in 1983. Trench 6 "C" gave a high value of 0.16 oz/ton Au over 4'. The 1984 sampling was confined to Trench 6 "A". One sample was taken of numerous quartz-carbonate veins containing pyrite and tourmaline and carbonate altered margins. This sample assayed 145 ppb. The rest of the sampling was from the north half of 6A. The highest assay was 733 ppb Au/4' while the average was 228 ppb Au for 23'. LINE 48E, 36N

During the magnetometer survey in November several (20?) old pits and trenches were located in this area by Bruce Raine. Several grab samples and some bedrock samples were taken, but due to the time of year and limited time available none of the pits and trenches could be cleaned properly. The exposed rock in the trench bottoms consisted of carbonated sericite schists with up to 30% pyrite in places, carbonated talcy tuff with minor pyrite, siliceous cherty tuff and carbonated porphyry. Quartz veins with green carbonate haloes containing pyrite cut these rocks. Some of the carbonated rocks are also silicified. The highest assay result was 373 ppb Au and the average of 14 samples was 89 ppb.

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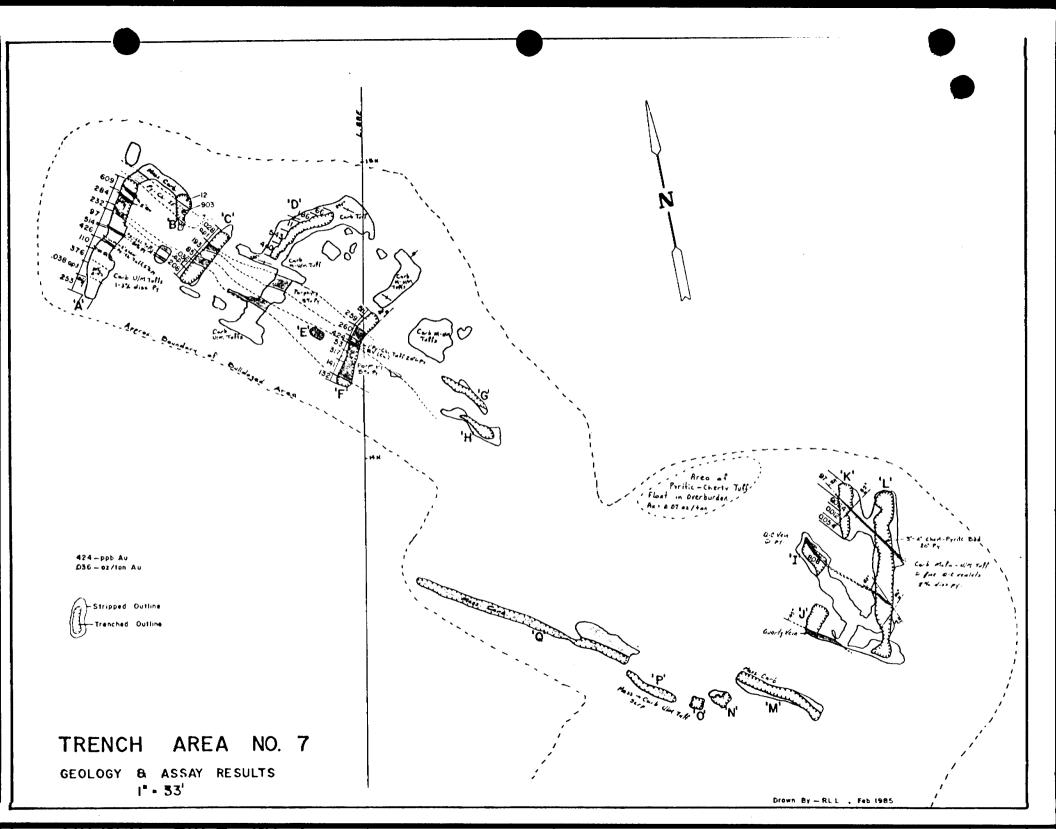
#### LINE 51E, 36 + 50N

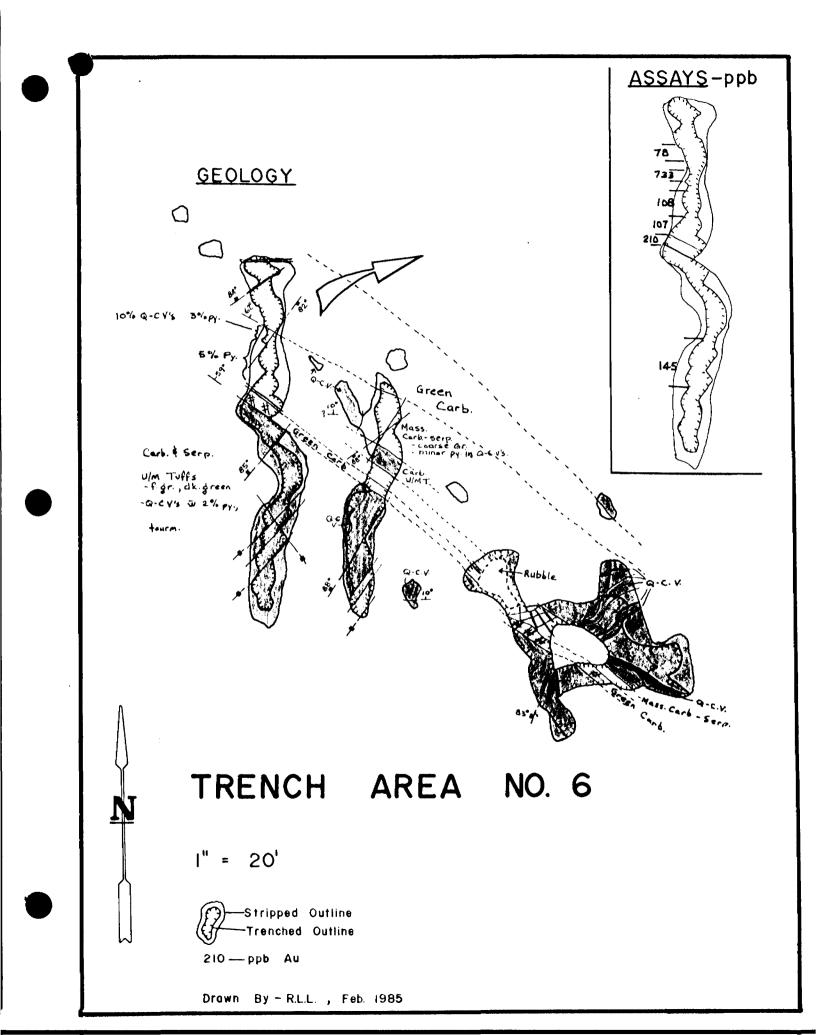
Several old trenches were located during a reconnaissance traverse just west of Big Chris Lake. They had been put down on a pyritic iron formation and cherty pyritic tuffs. Several samples were taken and assayed for Au and 2 were assayed for Cu, Zn and Ag. Chalcopyrite and sphalerite specks were noted in pyritic graphitic tuffaceous beds. The highest Au assay was 86 ppb while the average for 5 samples was 42 ppb Au. The 2 other samples averaged 565 ppm Cu, 2038 ppm Zn and 1.3 ppm Ag.

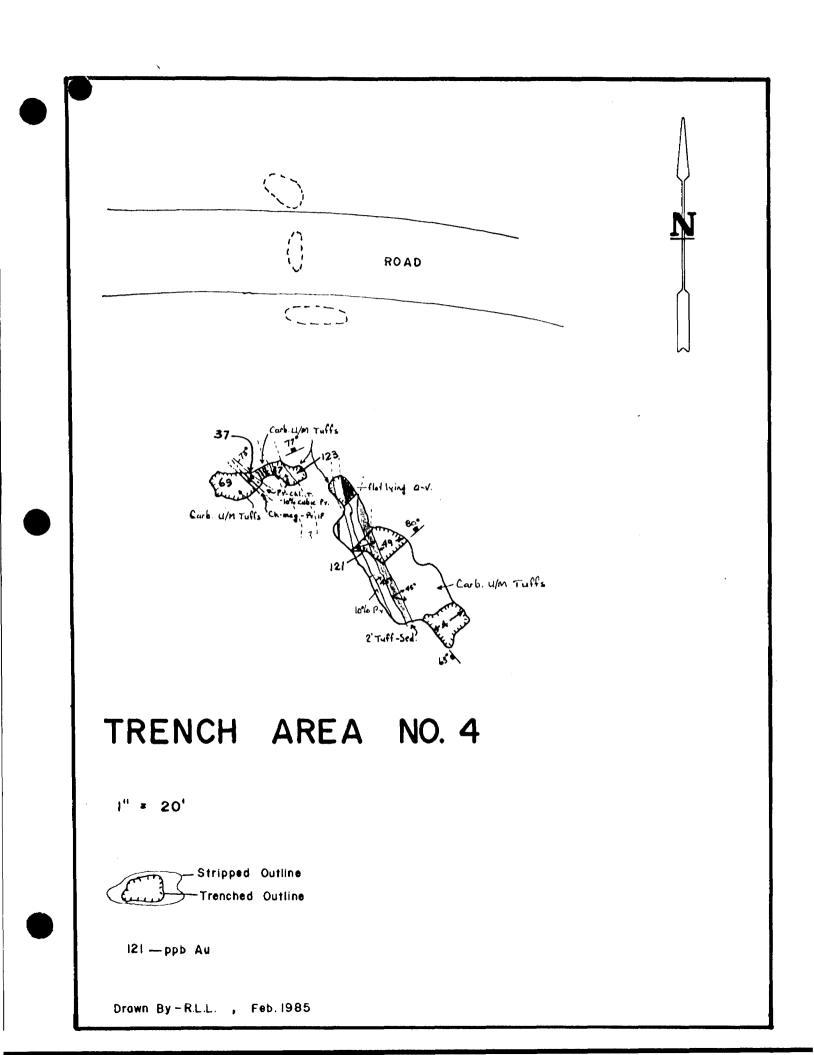
The last 2 trench areas found are probably on the same horizon being separated by a low swamp area. The more westerly trenches are in a zone of altered rocks. The combination of the alteration and the sulfidic cherty iron formation should be a good area to search for a gold rich zone. With the overburden being shallow a backhoe could be utilized very effectively.

The IP results gave a 1200' anomaly from L38E, 40N to L50E, 37N over this area.

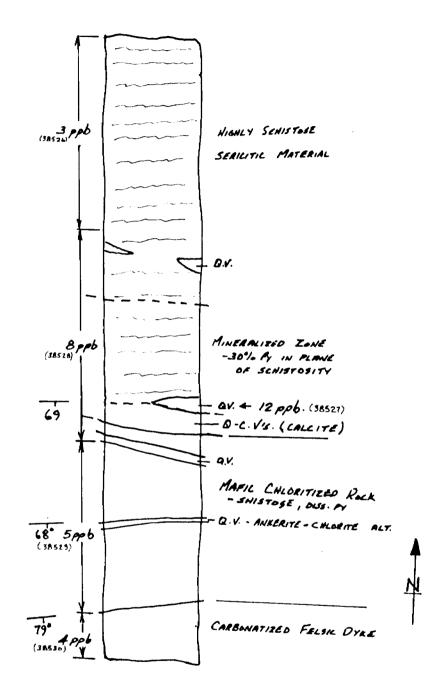
-10-







# L 116E , 465



Scale 1"=2' Drawn - RLL Feb 1985 Sompled - B.R., DL, LH,

#### OVERBURDEN DRILLING

The overburden drilling program was a continuation of a program started in March and April 1984 of testing I.P. anomalies. A total of 20 samples were collected and analysed for gold.

Sampling is done by a flow through bit located at the end of a string of rods which are driven into the ground by the percussion mode of a "cobra" drill. The bit has a tooth arrangment at the end which is driven into the bedrock about  $\frac{1}{4}$ ". Both a bedrock button and a till sample immediately above the bedrock-till interface is recovered. Samples are occasionally lost mostly due to too much water at the sample point.

Sample sites and descriptions are appendixed.

#### DISCUSSION

Anomaly "G" was the only anomaly tested during the 1984 field season. The anomaly is not covered by a good till being sandy at numerous sample sites which is reflected by the low assay results.

If 30 ppb Au is considered anomalous (W.O. KARVINEN, April 1984) then only one anomalous sample was taken. This is located at the north contact of the 1.P. conductor on L38E, 23N and gave a value of 74 ppb. The sample site contains pyrite in both the till and the bedrock.

#### CONCLUSION

Due to the nature of the till in the area of anomaly "G" overburden sampling is not a good choice of evaluating this anomaly.

-11-

ANOMALY "G"

SAMPLE NO	LOCATION	DEPTH	ASSAY PPB.	DESCRIPTION
G-1	L3OE, 19+5ON	1.2m	-	-Sandy overburden, no till, no sample retained -button - hard, grey.
G-2	L30E, 20N	1.4m	2	-moist compact till -button - hard, green.
G-3	130E, 20+50N	3.5m	2	-moist, grey washed till. -no button.
G-4	L32E, 20+50N	2.Om	2	-moist sandy till, some pyrite. -button - hard,green.
G-5	L32E, 20N	2.Om	4	-moist grey, sandy till- good till. -button - hard,green.
G-6	L32E, 19+50N	4.Om	4	-hard green till with angular green rock chips, some pyrite-good till. -no button.
G-7	L32E, 19N	3.6m	8	-compact, grey to grey green silty till, some angular green rock chips. -button - dark green.
G-8	L34E, 18N	4.1m	4	-moist, compact, green till. -button – hard, green.
G-9	L34E, 17+50N	<b>1.</b> Om	10	-poor till, washed, sandy -no button, green bedrock.
	L34E, 17N	1 <b>.</b> Om	-	-sandy till, no sample retained. -no button.
	L36E, 17+50N	7.2m	-	-wet till - lost samples.
G-10	1.36E, 17+50N	5,8m	20	-compact green till, very pyritic, green angular rock chips -no button.
G-11	L36E, 18+50N	5.2m	10	<pre>-excellent compact, green, pyritic till -button - mafic volcanic, pyritic.</pre>

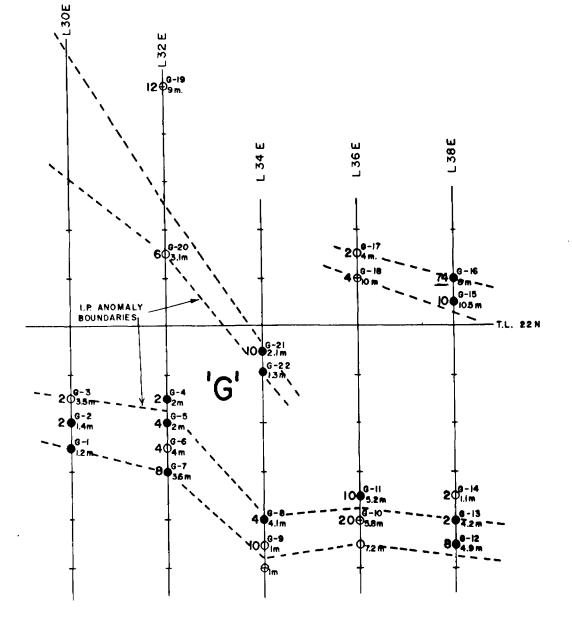
G-12	L38E, 17+50N	4.9m	8	-fine silty till with ½" gravel, pyrite cube in till -button - mafic volcanic with quartz vein and pyrite.
G-13	L38E, 18N	4.2m	2	-fine, white clay, well washed sand and gravel -button - sericite schist.
G-14	L38E, 18+50N	1.1m	2	-fine, well washed, sand and silt -no button.
G-15	138E, 22+50N	10.5m	10	-fine silt on top then coarse sand and gravel with pyrite -button - mafic volcanic with pyrite.
G-16	138E, 23N	8.Om	74	-coarse sand and gravel with pyrite -button - mafic volcanic, pyritic.
G-17	136E, 23+50N	4.Om	2	-fine sand and gravel with red clay at bedrock -no button.
G-18	L36E, 23N	10.Om	4	-fine washed till, mostly quartz -no button.
G-19	L32E, 27N	9.Om	12	-bouldery penetration, sandy wet till (poor) -no button.
G-20	L32E, 23+50N	3.1m	6	-fairly dry greenish till with 10% pyrite -no button, bedrock soft, green
G-21	L34E, 21+50N	2.1m	10	-wet sandy till (poor) -button - green mafic volcanic, pyrite.
G-22	L34E, 21+10N	1.3m	-	-sand - no sample retained -button - hard, green mafic volcanic fine pyrite.

# OVERBURDEN DRILLING ANOMALY 'G'

SCALE |" = 200′ Drawn By RLL , Feb. 1984

O NO BEDROCK BUTTON BEDROCK BUTTON AU ASSAY PPB - 2005.8m - DEPTH TO BEDROCK

### LEGEND



Bell - White ANALYTICAL LABORATORIES LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

## Certificate of Analysis

NO. B993-84

DATE: September 6, 1984

SAMPLE(S) OF: Soils(20)

RECEIVED: September, 1984

SAMPLE(S) FROM: Mr. R. Lashbrook, Quinterra Resources Inc.

RN. 074 OVERBURDEN DRILLING

Sample No.	Gold ppb
G - 2	2
3	2
4	2
5	4
6	4
7	8
8	4
9	10
G-10	20
11	10
12	8
13	2
14	2
15	10
16	74
17	2
18	4
19	1 2
G-20	6
21	10

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-SATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAT PROCESS. BELL-WHITE ANALYTICAL LABORATORIES LTD.



#### DRILLING SUMMARY

Diamond drilling at the Sylvanite Creek Property was delayed until December 8th, 1984 waiting for the results of the airborne mag - VLF survey performed in October 1984. It was thought that the survey might guide the location of drill targets.

DRILL HOLE	LOCATION	LENGTH	D1P	AZIMUTH
SC - 84 - 1	L90E, 16+50N	446'	-45 ⁰	195 ⁰
SC - 84 - 2	L94+50E, 21N	516'	-45 ⁰	173 ⁰
SC - 84 - 3	L65E, 19+50N	446'	-45 ⁰	205 ⁰
SC - 84 - 4	L14E, 5N	427'	-45 ⁰	190 ⁰

#### (2) SC-84 -1

This hole was collared just east of Trench Area #7 and directed underneath the area that had assayed 0.10 oz Au/ton over 7' in 1983. This area also yielded a broad 1.P. anomaly.

The hole encountered almost wholly an alternating sequence of mafic crystal tuffs with abundantant small white feldspar crystals and a mafic tuff which was, for the most part, fine grained and dark green. Only one felsic porphyry was cut for a length of 8.2' which ran 240 ppb Au. This is about the same tenor as was got from surface sampling in Trench Area #7. Green carbonate rock was encountered in the lower half of the core and where assayed gave only low values (18-20ppb). Throughout the hole are many brown carbonate altered zones usually containing quartz veins. In some instances silification and pyritization also occur with the carbonatization.

Gold values were quite anomalous, but no ore grade intersections were found. The highest grade (0.041 oz Au/ton/0.9') occured in an altered brown carbonate - quartz zone containing 2-3% pyrite. But not all altered zones were this auriferous (e.g. 155.4 - 158.0' 27 ppb and 182.4 - 183.5 29 ppb).

SC-84-1 confirmed the existence at depth of a wide anomalous zone found in Trench Area #7. From surface work we know that this anomalous zone exists for another 300' west with the most westerly trench, 7A, averaging 427 ppb Au across 42'.

The 1.P. anomaly must have been caused by the disseminated 2-5% pyrite that occurs throughtout the hole and reinforced by a few narrow 10% to 40% pyritic zones.

#### SC - 84 - 2

This hole drilled at 94+50E, 21N was to test 2 I.P. conductors picked up by Rayan in 1983. Also it was felt it may be the location of the auriferous float found in Trench Area 7 about 600' southwest that assayed 0.07 oz/ton Au.

The hole passed through 20' of overburden before collaring in mafic tuff. At 166.8 semi-massive sulfides were cut to 167.9. Three narrow cherty tuff beds were intersected with interbedded mafic tuffs to 191.2'. This 24.4' intersection is the cause of the north I.P. conductor. Very low (5-14 ppb) Au values were found along with anomalous Cu-Zn values, the highest being 1040 ppm Cu/3.6' and 3150 ppm Zn/5'.

An intervening series of ultramafic flows and tuffs to 475.2' separate the 2 I.P. anomalies. The second anomaly was caused by 3 narrow chert exhalites to 495.2'. These exhalites gave anomalous values of 2.9' - 488 ppb Au, 1.8' - 926 ppb Au and 0.7' of 274 ppb Au.

The hole re-entered and was stopped in another ultramafic series of rocks.

SC - 84 - 3

This hole was spotted at 65E 19+50N to intersect a 2000' long I.P. anomaly which gave anomalous overburden results. The hole is predominantly mafic tuffs and mafic crystal tuffs interupted periodically by cherty tuffs and iron formation (54.8 - 60.2, 128.0 - 138.1), cherty tuff (191.8 - 192.6, 194.5 - 198.5, 234.3 -234.6, 246.9 - 255.2) sulfide iron formation (255.2 - 258.6) and zones of silicified mafic tuffs.

Sulfides are ubiquitous, commonly pyrite, occuring as beds and cubes up to 1.0cm wide and up to 60% in places while pyrrhotite is confined to a zone from 236.3' to 277.9' where it reaches a maximum of 50% (269.3 - 277.9).

Silicified zones do not appear to have an increase in Au content nor the high sulfide areas. The highest Au values occurs in mafic tuffs which have been cut by several quartz-carbonate veins and contain 10-15% pyrite (313.7 - 317.0) - 656 ppb and 30% pyrite (179.1 - 181.9) - 346 ppb. The cherty iron formation averaged 160 ppb, cherty tuffs 148 ppb Au, sulfidic iron formation 51 ppb Au and the silicified zones, where assayed, averaged 177 ppb. Thirty-four percent of the hole was assayed giving an average of 134 ppb Au.

#### SC - 84 - 4

The hole was spotted 200' east of SC-3 in an attempt to intersect ore grade results found in SC-3 ie 0.246/8.75' (238.23-247.0) and 0.178/2.8' (254.2 - 257.0). These values were obtained from a zone of siliceous iron formation and pyritic chert from 234.6''to 258.0' (23.4'). Hole SC - 84 - 4 was very disappointing. It was almost all mafic tuff with narrow zones of pink altered and silicified rock. No siliceous iron formation or pyritic cherts were intersected. The highest gold value was a mere 86 ppb.

#### GEOLOGY

The geology of the Sylvanite Creek Property has been discussed in earlier reports by W.O. Karvinen mainly in what is known as the "Core Claims". The 1984 mapping and prospecting program was concerned mostly with the claims at the east end of the group (Sylvanite East Block) and also with the claims immediately north and south of the Core Group.

North of the Core Group the rocks are mostly massive, medium to coarse grained, mafic volcanics. On L32E at 55+50N a small felsic tuff or sediment outcrop was located. Only minor pyrite was observed. It was later trenched and assayed giving low values. A second area just west of Big Chris Lake between line 48 and 52E and 36 to 36+50N contained a number of old trenches. The more easterly set were put down on pyritic graphitic tuffs, cherty exhalites and felsic tuffs. The pyritic graphitic tuffs contain about 8% pyrite with fine specks of chalcopyrite and sphalerite. The pyritic-cherty exhalite contained beds of 40% pyrite and fine specks of chalcopyrite especially in the joints. These 2 horizons assayed 27 ppb Au, 565 ppm Cu, 2040 ppm Zn and 1.3 ppm Ag. The strike of these beds are southwest with a 45° dip to the southeast. This is completely different from the strikes in the surrounding area. A fault striking southwest is suspected to occur in a small depression separating this set of outcrops from massive medium grained mafic volcanics 100' east. This is substantiated by a fault projected from the airborne survey.

-18-

The more westerly set of trenches were sunk on highly altered rock. Due to the late time in the season when they were located, they could not be cleaned and mapped. However, muck from beside the trenches consisted of carbonated sericite schists which in places contain up to 30% pyrite, carbonated talcy tuff with minor pyrite, siliceous cherty tuff and carbonated prophyry. Quartz veins with green carbonate pyritic haloes cut these rock. Some of the rocks are also silicified. The highest assay was 373 ppb Au (0.011 oz/ton).

The style of alteration (silicification, carbonatization, pyritization), the proximity of the faults, the cherty pyritic exhalites and shallow overburden make's this area a target for the 1985 program. The l.P. survey shows a 1200' long anomaly from L38E, 40N to L50E, 37N. This isprobably the same horizon that has not yet been exposed.

The "Sylvanite East Block" was systematically mapped along 400' lines. The northwest quarter of this area is covered by a sand plain. Generally, the geology is mostly mafic volcanics (flows and tuffs) with interbedded felsic tuffs and flows, minor cherty pyritic iron formations and exhalites and minor sediments. Intruding into these are felsic porphyry dykes, granitic stocks, gabbro-diorite dykes and sills, diabase dykes and a peridotite. A major east-west fault divides this area approximately in half.

In the north part the rocks strike west to northwest and dip  $35^{\circ}$  to  $80^{\circ}$  to the north and northeast. They are mostly mafic volcanic tuffs and minor massive flows. Interbedded are felsic

-19-

tuffs, minor felsic flows and breccias and minor cherty pyritic beds commonly 1' to 2' thick. Massive, deep brown weathering carbonate rock strike's northwest throughout this area.

This rock was not located in the south half below the fault. The carbonate rock is usually riddled with quartz veins, sometimes in ladder type veins. A massive appearing peridotite intrusion is exposed in several outcrops over a strike of 2000' from L116E to L136E along and south of the baseline. A narrow band of the Ridout Sediments is located in the northeast corner of the claims. They strike north west and were mapped again 1½ miles northwest on the shore of Little Chris Lake.

The south part of the Sylvanite East block is dominated by mafic tuffs and flows with interbedded felsic tuffs and flows, cherty-sulfide rich exhalites, iron formation and argillite. Intruding into these are a granite stock and dykes of quartz-feldspar porphyry, gabbro-diorite dykes and sills and a lamprophyre on L172E at 40S. The rocks strike westerly to south westerly and dip steeply to the south. A strong schistosity is prevalent throughout the area usually parallel to the strike of the rock. Measured bedding in the tuffs may, at times, actually be the schistosity.

An old trench located 50' west of L172E, 36S was put down on a cherty-sulfidic exhalite. Sulfides observed were pyrite, pyrrhotite, chalcopyrite and sphalerite. A long ground and air VLF conductor extends from the east boundary (225E) through this horizon and beyond. A diamond drill hole (Granges SW-23, Mar 15, 1977) located 50' east of L187E, 27S cut this conductor. The log indicates a visual average of 16% pyrite over 23.7' in a silicified dacite

-20-



tuff. Another 6' band of 20% pyrite is located further down the hole. No assays were reported from the drill hole. Assays from the trench gave an average of 24 ppb Au, 0.04% Cu and 0.21% Zn for 4 samples.

#### MINERALIZATION

Results of gold assays for the Sylvanite East Block indicate a difference between the north and south areas.

The south area contains an average sulfide content with concentrations in cherty exhalites, felsic tuffs and narrow iron formations. Samples were taken wherever mineralization was observed along with some quartz veins, but only low assays were returned.

The north area also contains an average sulfide content with concentrations in similar rock units as the south. The area is also more schistose and has been carbonatized to a higher degree than the south. Numerous anomalous assays through to a high of 925 ppb in a cherty-pyritic exhalite were taken. The Noranda-International Rhodes property directly east of the north part was reported verbally by Joe Hinzer to have a narrow 18" to 3' exhalite zone traceable across their large stripped area running as high as 0.18 oz/tonfrom surface sampling. This unit could continue onto the Quinterra ground and may have been picked up in the humus sampling. Another of Norandas trenches located at the base of the hill and near the projected E-W fault returned, from a grab of siliceous and carbonated tuff with 5% pyrite, 0.034 oz/ton Au. This zone could also come through onto our property as the airborne survey indicates a VLF conductor along the base of this hill, continuing onto the Quinterra ground where it also has, for a short interval, a quadrature response. A quadrature response usually indicates sulfides as the source of the anomaly.

-22-

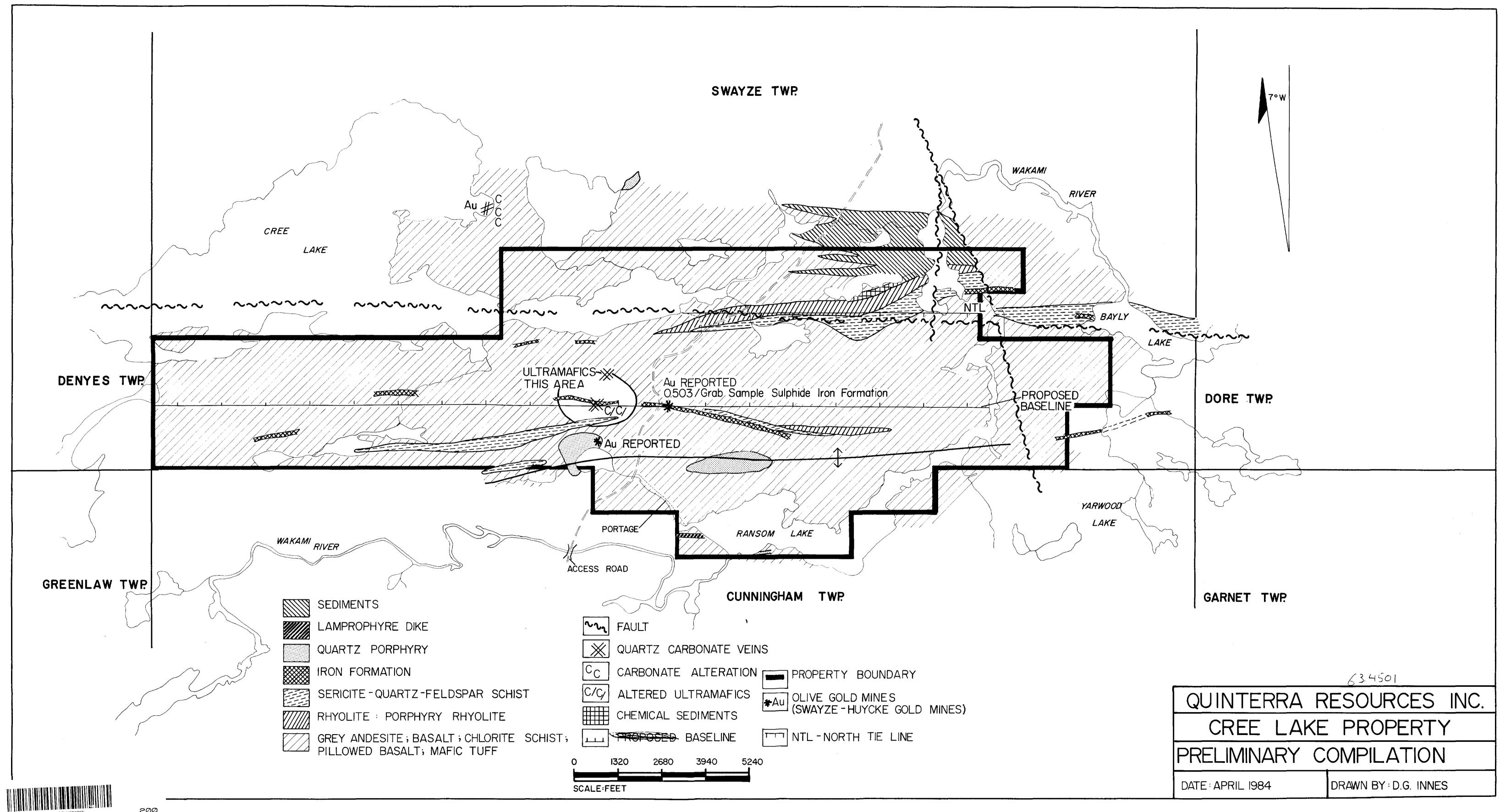
A review of the drilling of the Tooms Nickel Syndicate in the "Nickel Showing" area shows that they got very little in the way of nickel mineralization and intersected only minor peridotite. Most of the logs show mafic tuffs and flows, felsic tuffs and flows, sediments and graphitic slate. Mineralization consists of pyrite, pyrrhotite, chalcopyrite and occassionally sphalerite. Some samples were assayed for gold. In hole #9 two samples returned 1.6' of 0.02 oz/ton Au, 0.10% Cu and 2.8' of 0.06 oz/ton Au, 0.70% Cu. The first sample had "moly" reported visually. Holes 7 and 8 had 0.21% Cu/23.2' and 0.32% Cu/21.6' respectively. No gold assays were taken. They were drilled 100' apart. Considering the gold assays and associated copper values this area should be further checked for a stratabound gold deposit.

In the Trench Area #7 surface sampling and one diamond drill hole has indicated a wide anomalous zone of gold mineralization within a wider 1.P. anomaly. Sampling and mapping in the trenches indicates that the gold may not be stratabound, but associated with cross-cutting zones of quartz-carbonate pyrite veinlets and microfractures.

Hole 84-2 was located to intersect 2 I.P. anomalies. However, the air-mag maps, received after the drilling shows a narrow anomaly where the drilling took place below a much larger mag high anomaly. The I.P. survey had not gone far enough north in this area. The hole gave anomalous to 0.028 oz/ton Au values in the lower I.P. anomaly. The source of the auriferous float in Trench Area #7 could well have come from this large mag high. A drill hole of Granges (SW-99) 3800' northwest along this anomaly intersected 8' of banded

-23-

iron formation containing 15% to 30% magnetite and 5% to 20% sulfides over 2.8'. However, the anomaly is narrower and of lower intensity than north of 84-2. A humus survey located 6200' northwest along the same mag anomaly picked up a narrow 3-4 times background gold anomaly. A more detailed humus program might better define any gold rich horizons within the mag anomaly from the east boundary to Little Chris Lake 3000' northwest.



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## 63,4501

# CREE LAKE PROJECT

## LEGEND

VOLCANIC ROCKS

- VI RHYOLITE
- V3 DACITE V4 ANDESITE
- c breccia 1 pillow
- V6 BASALT
- V8 MAFIC TUFF
- VIO FELSIC TUFF

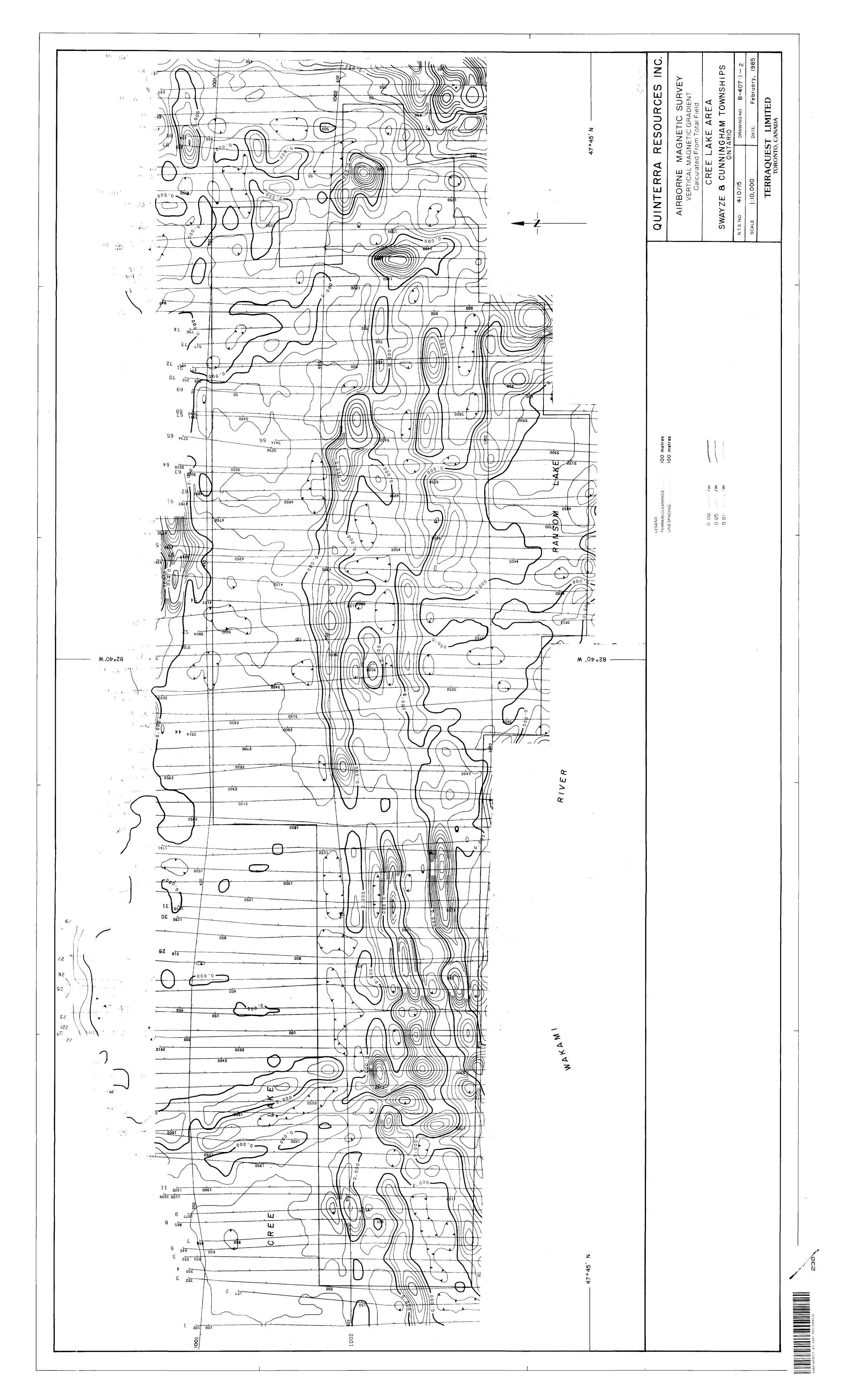
### INTRUSIVE ROCKS

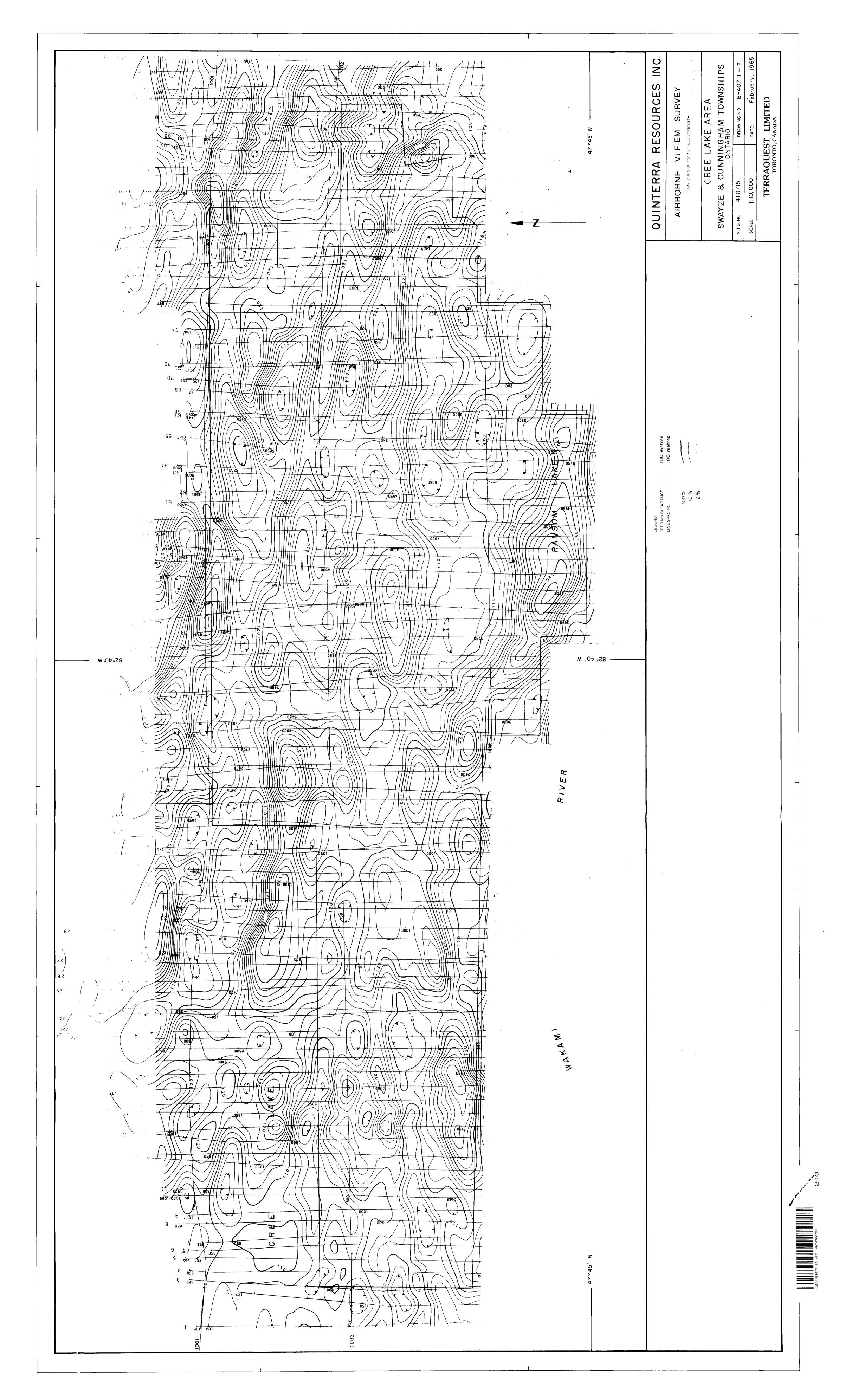
- GI GRANITE
- G2 SYENITE
- G3 DIORITE GABBRO
- SHISTOSITY
- ${\mathcal C}$  fold
- HRENCH
- 💭 РІТ
- BEDDING

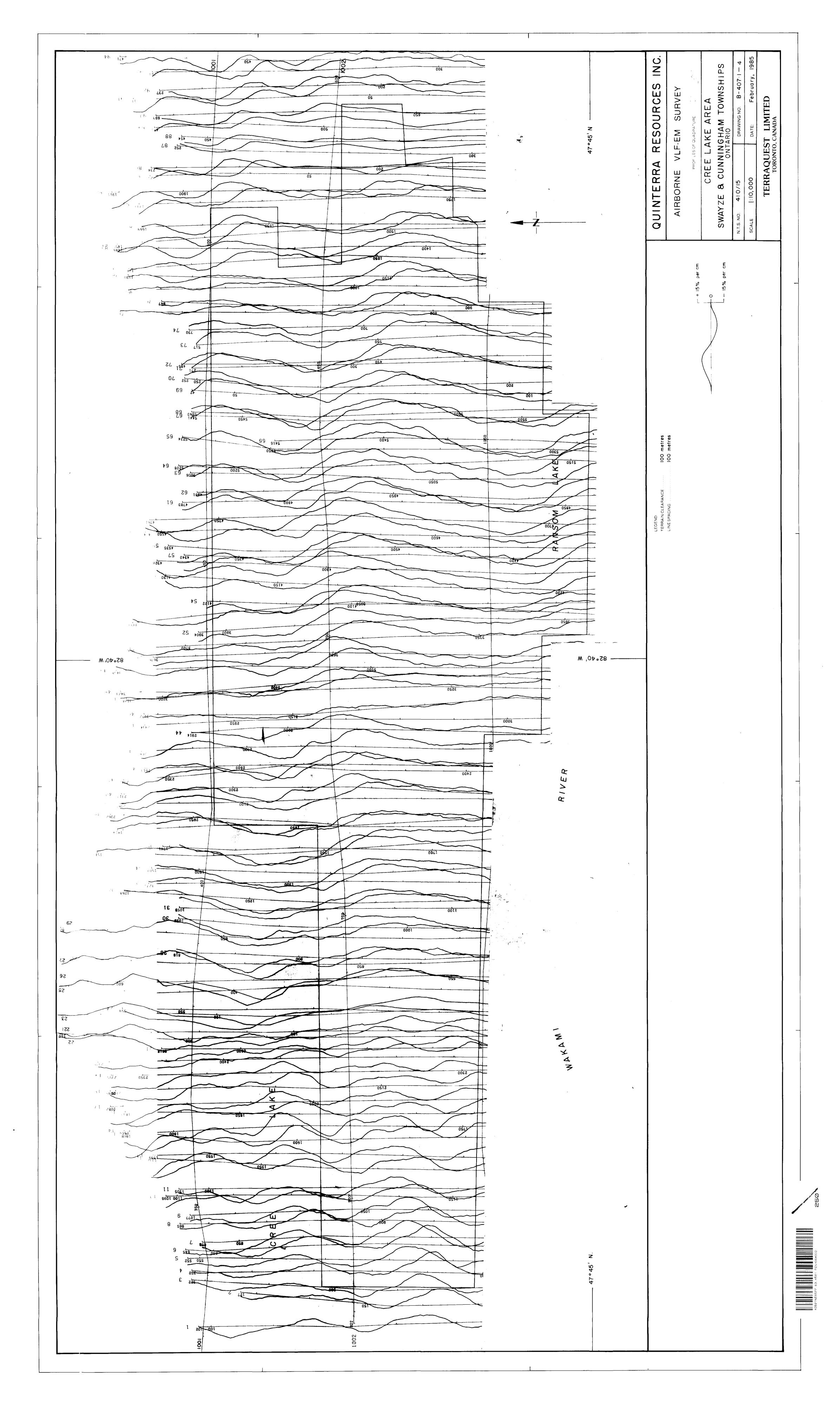
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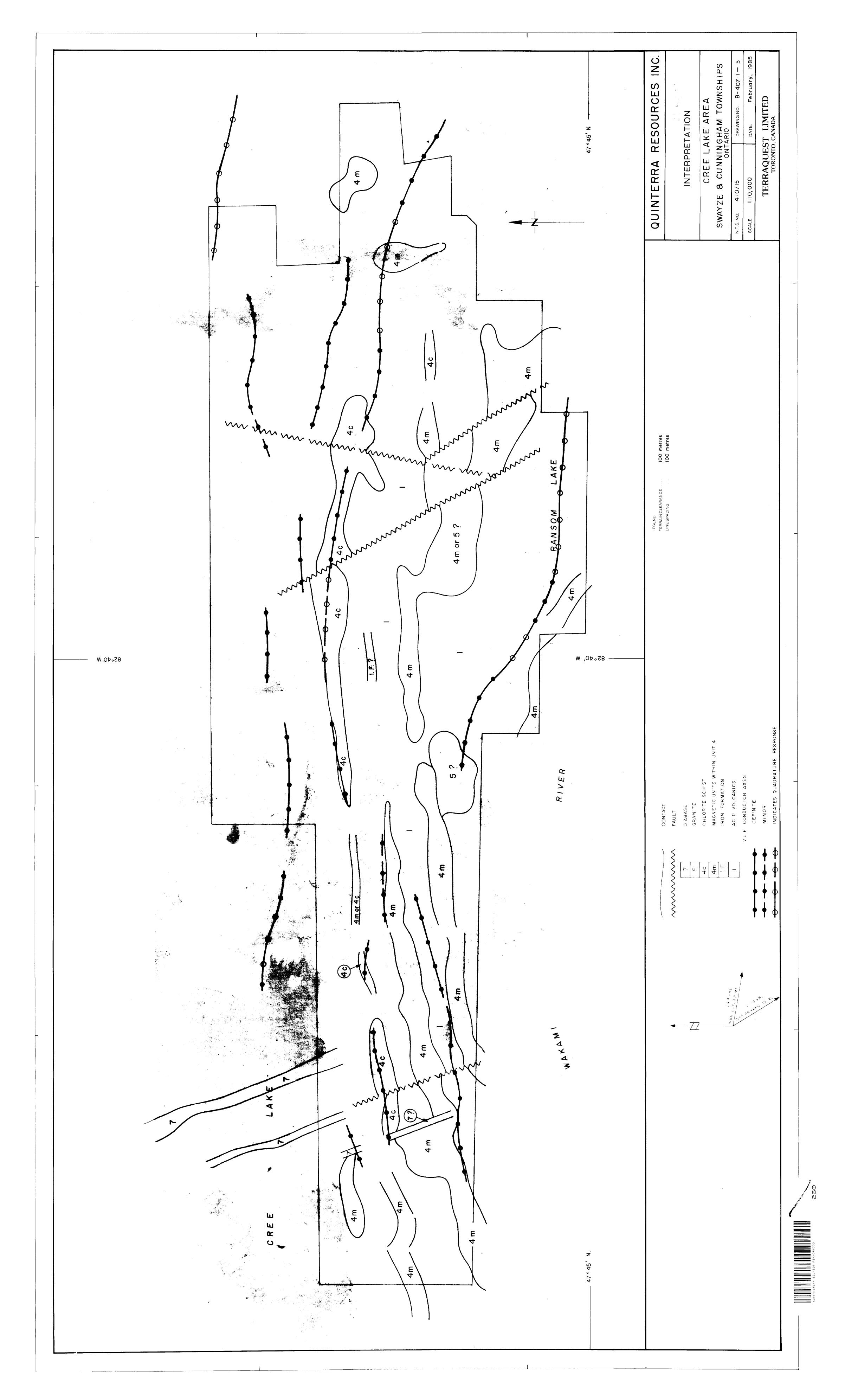
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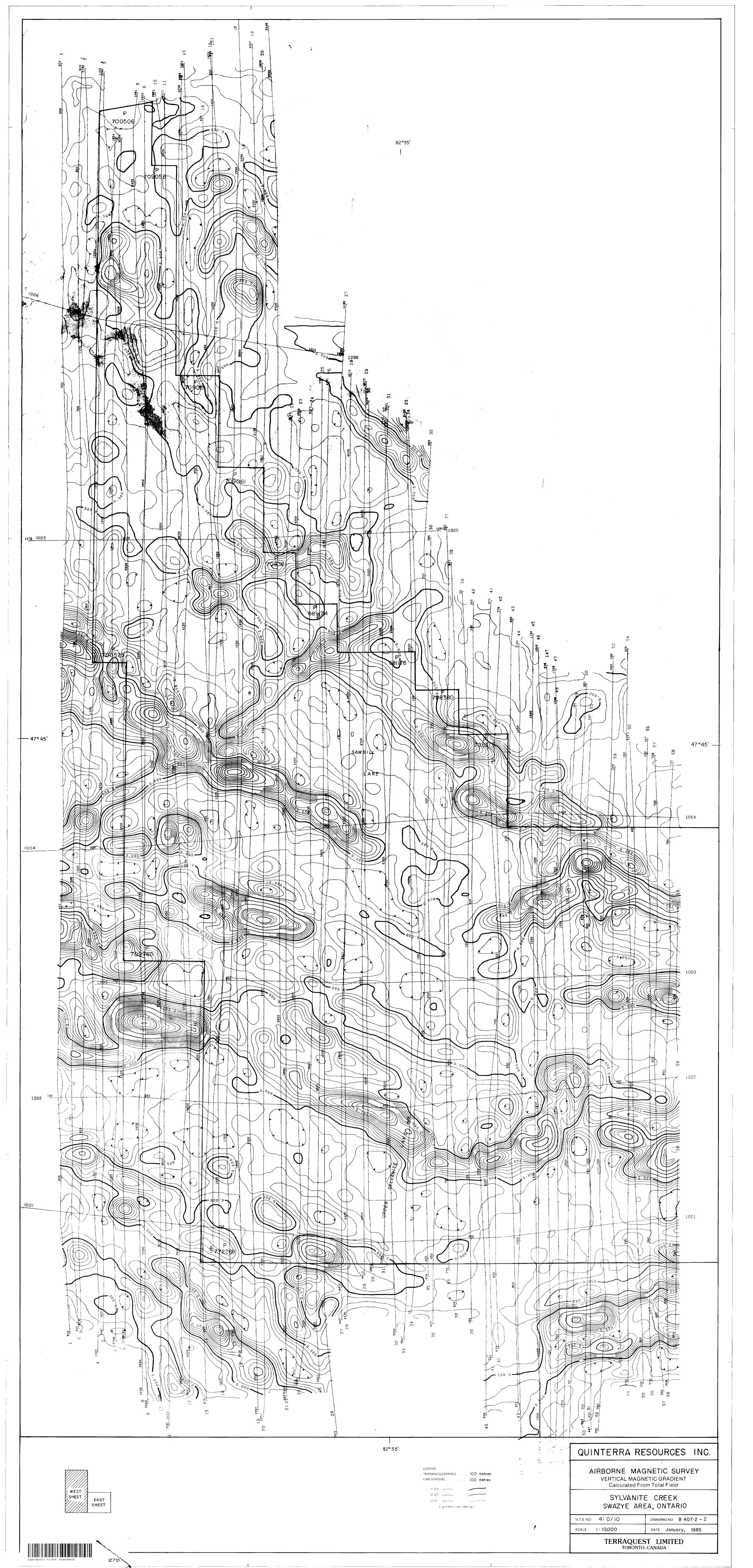


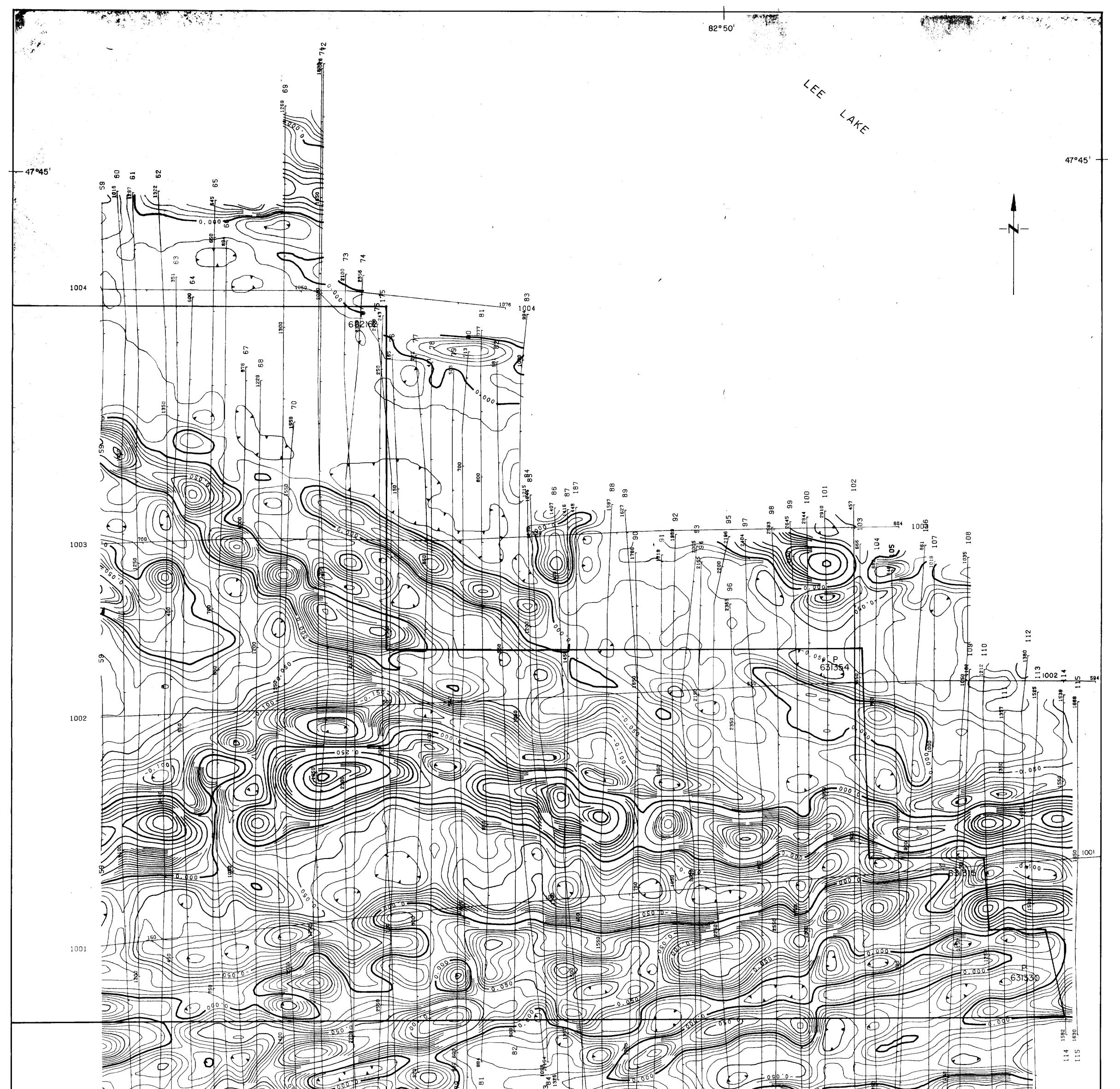










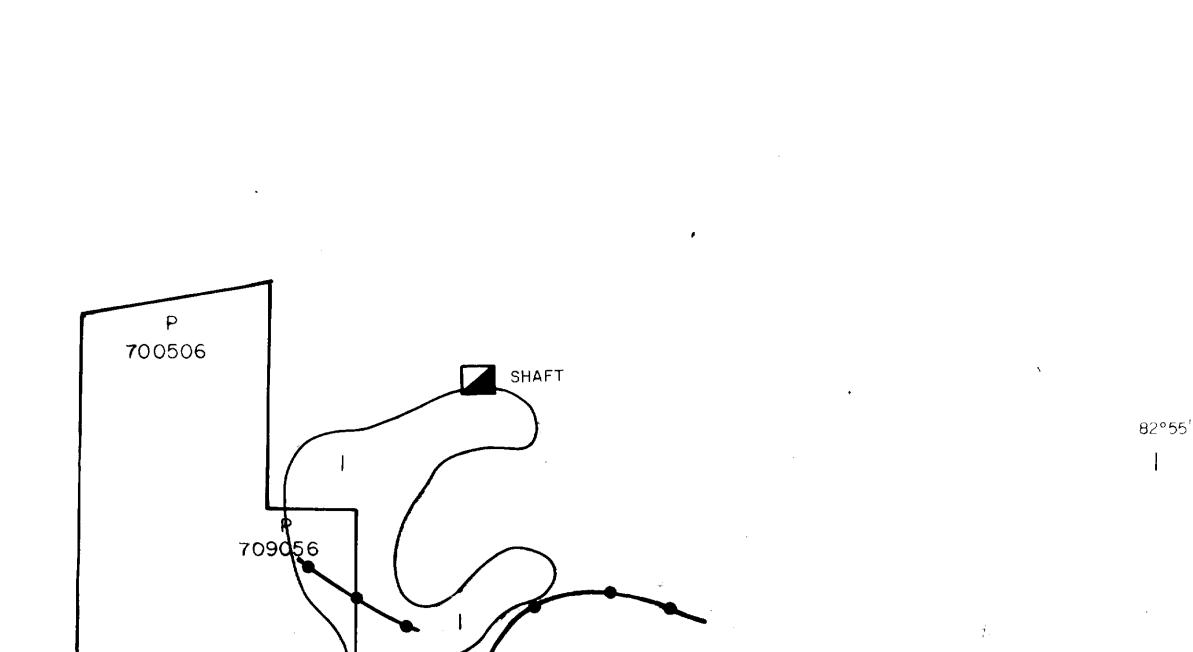


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WEST SHEET EAST SHEET		(gammas ver metre)	SYLVANITE CREEK SWAZYE AREA, ONTARIO
			N.T.S. NO:         41 0/10         DRAWING NO.         B 407-2-2           SCALE         1:10,000         DATE:         January, 1985
42801NE8577 63.4501 PENFORMOCO 280			TERRAQUEST LIMITED TORONTO, CANADA

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