

A GEOLOGICAL/GEOCHEMICAL SAMPLING AND ANALYTICAL EXPENDITURE REPORT

> EASTERN 7 CLAIM BLOCK THUNDERWOOD PROJECT HEARST TWP, ONTARIO

> > 2 13785

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MINING LANDS SECTION

Submitted by:

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December, 1990



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### GEOLOGICAL/GEOCHEMICAL REPORT - EASTERN 7 CLAIM BLOCK

### THUNDERWOOD PROJECT

#### INTRODUCTION

During the period from September 15 to October 18, 1990, a geological mapping and sampling program was completed over seven (7) of the unpatented claims of the larger Thunderwood (Martin-Bird) property group. This package of claims is significant in that it may host the, as yet undiscovered, extension of the Martin-Bird gold-bearing zone.

### LOCATION AND ACCESS

The Thunderwood property is located in central Hearst township, District of Temiskaming, in the Larder Lake Mining Division (Figures 1-3). It lies immediately adjacent to the southeast shore of the Southwest Arm of Larder Lake.

The property can be reached via a forty minute drive from the Town of Kirkland Lake. Highways 66 East and 624 South lead to the Martin-Bird mine access road which is located approximately three miles south of the town of Larder Lake. Then, from the former mine site, trails and baselines provide access to the eastern grid area.

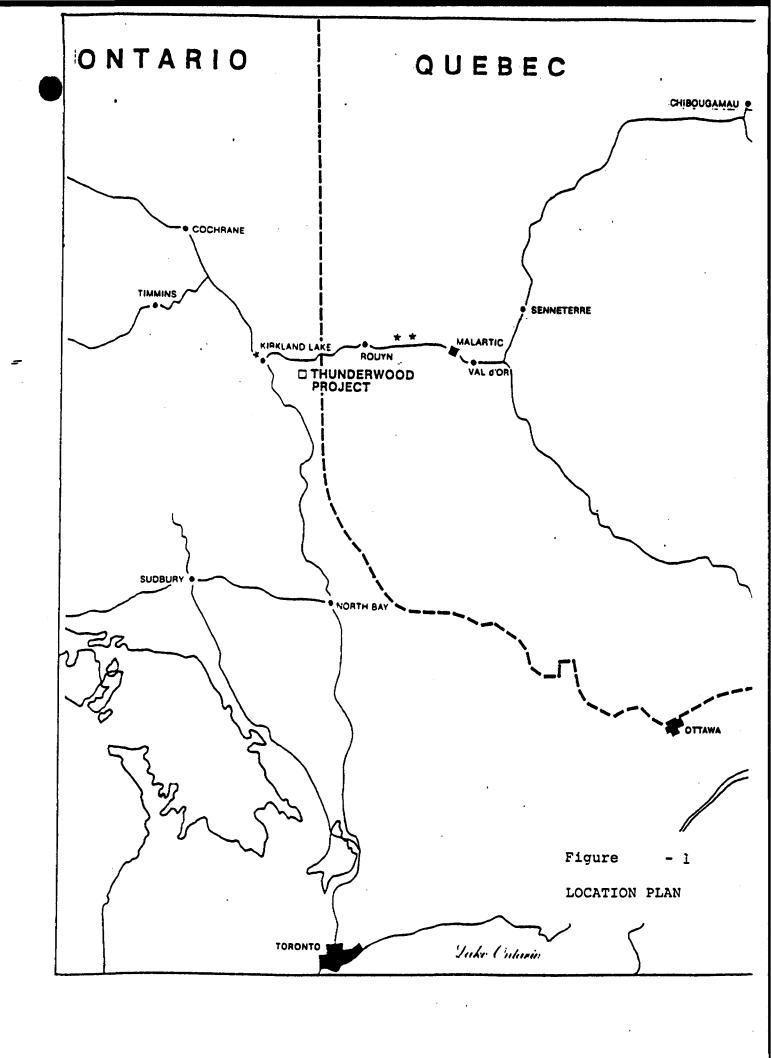
#### PROPERTY DESCRIPTION

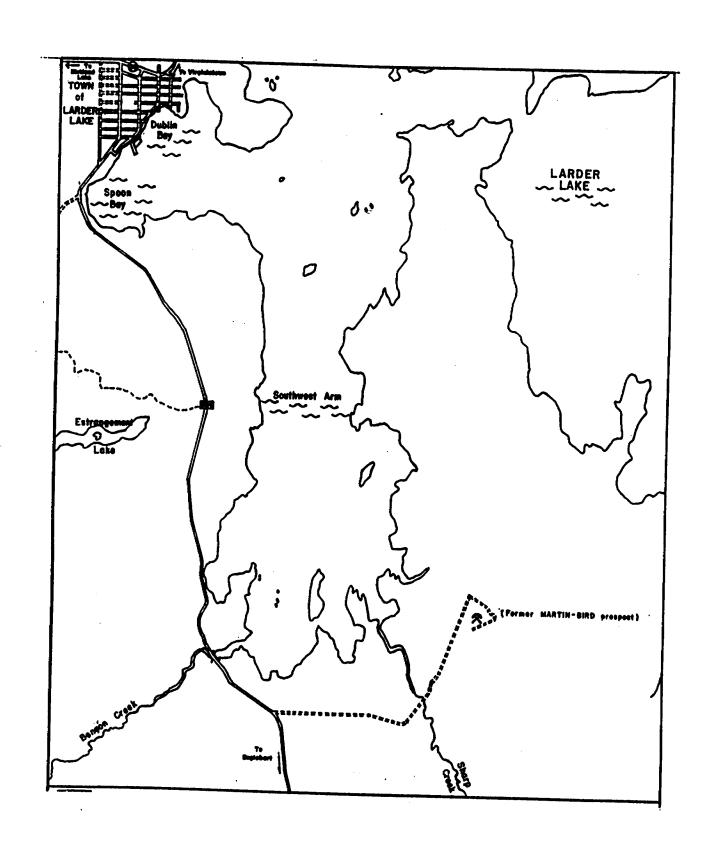
The claim group consists of seven contiguous unpatented claims listed as follows:

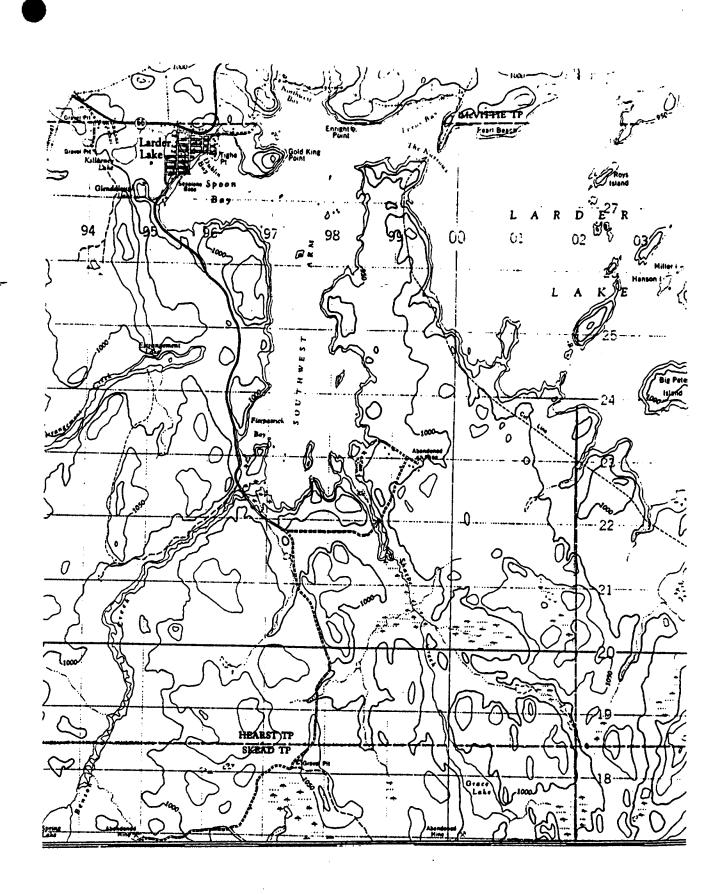
- L. 979429
- L. 955114
- L. 955115
- L. 955116
- L. 955124
- L. 955125
- L. 955126

They were staked and recorded in March of 1987.

For the current program of geological mapping and sampling the original baseline and crosslines were re-established to provide continuity with previous surveys. The baseline is oriented at 050° azimuth with crosslines at 400 foot centres. The surrounding lease and patent lines and pin positions provide fairly rigorous controls for data positioning.







The northern and southern portions of the claim ground were logged during the late 1980's (see Plan Kthu 2).

### PREVIOUS EXPLORATION WORK

Numerous old claim posts and the presence of historical pits and trenches are all signs of former exploration on the claims.

Quinn-Hearst property interests once held claims L.25024 through to L.25027 and L.25061. These claims still exist today, however, only as surface rights patents. They were probably active during the late twenties and the 1930's, although little is known of the work that was done.

Velvet Larder ML held patented claims L.25084, 25083, and 40982, among others. These claims were probably active during the 1930's and 1940's.

It is likely that the Martin-Bird Gold Mining interests also performed some work on the claims, most likely some of the old trenching.

In 1973, Kerr Addison Mines Ltd. performed a geological survey on the claims.

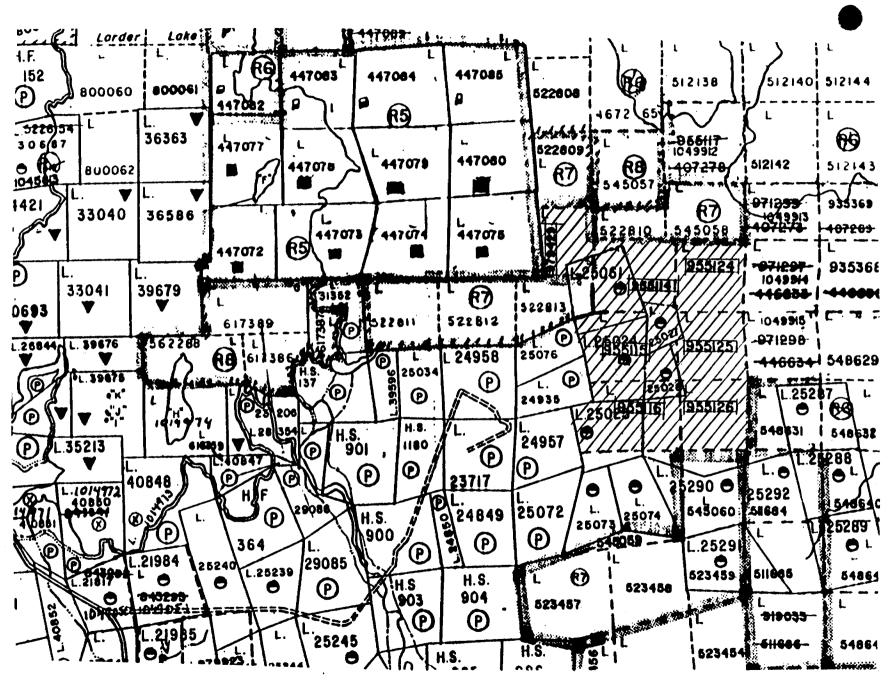
In 1980, Thunderwood Explorations Ltd. drilled one exploration hole (TS-80-Ex 2) for a total of 394 feet.

During the early 1980's, Long LAC Mineral Exploration Ltd. (LAC Minerals Ltd.) were active on the claim group performing ground geophysics, overburden stripping, humus geochemistry and diamond drilling (8 holes totalling 3655 feet).

### REGIONAL GEOLOGY

The Thunderwood property is underlain by rocks of the Larder Lake Group. These consist largely of komatiitic flows and flow top breccias, high magnesium basalts, turbiditic sediments and related intrusives. Younger lamprophyre dyke swarms are seen locally. Structurally, the geological setting is highly complex having undergone at least two periods of folding. The claim group lies within a major NNW trending syncline that has been over printed by a more northeasterly trending series of crossfolds.

This NNW trending syncline forms the peninsula separating the SW Arm and the main body of Larder Lake and is flanked by faults of Temiskaming Rift Valley trend. The youngest rocks observed in the area are Huronian in age and are seen adjacent to the



Work (overage Area

Thunderwood ground, preserved as outliers within Temiskaming Rift Valley fault graben blocks.

A strongly defined schistosity at a 055° trend, probably related to the second period of folding, is, in places, highly evident. Lamprophyre dykes appear to have intruded preferentially in this direction.

The Quartz vein lodes at the Martin-Bird mine occur in this direction of schistosity and gold values are best developed where they intersect flectures in lean magnetite iron formation.

### PROPERTY GEOLOGY

The seven claims were mapped at a scale of 1"=200 feet. Chris Burk of London, Ontario, mapped the western portion of the claim group, while Chris Pegg mapped the eastern half.

### A. Lithologies

The project area is underlain by rocks of the Larder Lake Group. These are typically sequences of ultramafic to mafic flows and flowtop breccias interlayered with turbiditic greywacke assemblages. They are described more fully below:

#### i) Sediments

The sedimentary rocks represent the predominant rock type on the property. They consist largely of siltstones, mudstones, grits and argillites with minor chert and interflow sediments. Graphitic and carbonaceous sediments occur in two bands as defined from the induced polarization survey (IP anomalies I, IIa and IIb). Their presence has been confirmed in diamond drilling, as well as in several outcrop occurrences.

The sedimentary sequence on the claim group has been interpreted as representing a turbidite terrain. Numerous exposures of trough crossbedding exist especially on the northern part of Line 8 west.

### ii) Volcanics

Most of the observed volcanics on the property are ultramafic to mafic flows. The ultramafic rocks are largely dark polygonally jointed komatiitic flows showing no obvious spinifex textures or marked flow zoning. They were not especially obvious in outcrop as they tended to underlie low

lying areas (recessive units) but were observed numerous times in drill core

Mafic pillowed basalt units form about 10% of the rock types present on the property. This rock type was especially prominent in flows lying adjacent to the large feldspar porphyry intrusive mapped out in the southern part of the property. Smaller pillowed flows were observed on the NW claim.

### iii) Volcaniclastics

Two main varieties of volcaniclastics were differentiated in the current study.

The first is the more volcanic dominated interflow and flowtop breccia variety. It is observed more frequently in core than in outcrop. Fragments and/or clasts are largely of ultramafic volcanics. This rock type is typically accompanied by a large amount of sparry calcite alteration. Due to the strong deformation fabric in many of the rocks in the area, there is debate as to whether the rock should be classed as a conglomerate or an agglomerate. Most of this variety of volcaniclastic is found in the south and southwestern portion of the map area. It is usually found adjacent or interbedded with volcanic flow rocks.

The second variety distinguished is a more sedimentary dominated volcaniclastic. It may be correlatable with Unit 5 as mapped by J.E. Thomson, which lies to the north of the map area along the eastern flank of the peninsula. This unit occurs in the northern part of the map area along Lines 4W, 8W and 12W. The rock varies from clast supported to matrix supported and appears to lie sandwiched within the greywacke sequence. The clasts are highly variable ranging from large (2") angular feldspar porphyry fragments to small (4 mm) rounded sedimentary appearing clasts.

### iv) Intrusives

A large intrusive of feldspar porphyry lies in the southern part of the map area. It shows a north-south elongation, a bimodal feldspar phenocryst population and forms a topographic high.

An intrusive syenite body was defined on the western side of claim L.955124. It is characterized by its content of angular mafic inclusions.

Lamprophyre dykes are fairly common throughout the map area, especially in the zones where the 055 degree deformation

fabric is strongly developed. Dykes vary from 6 inches to 20 feet wide and are fairly diverse in character. Some are biotite-rich, others are rich in garnets, some appear to be folded and some appear to be sill-form. The whole rock analyses performed indicate they are quite enriched in a multitude of trace elements.

A large diabase dyke is found in the southern map area. It trends ENE and is most prominent where it cuts the feldspar porphyry intrusive.

### B. Structural Geology

Structural relations on the property are certainly of a complex nature reflecting at least two deformation events. This has resulted in some cross folding.

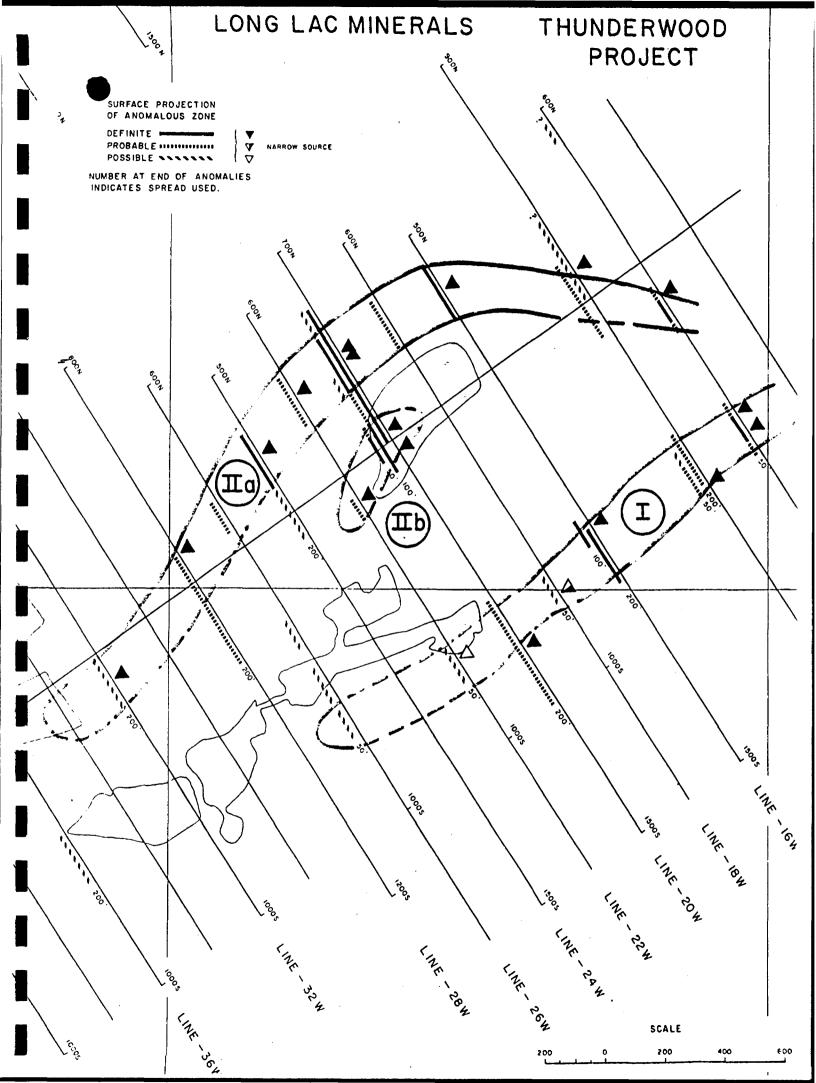
Generally, rocks in the map area strike roughly NNW and are often accompanied by a weak northerly trending penetrative schistose fabric. However, in the area adjacent to, and for several hundred feet on either side of the baseline, a strong secondary schistosity fabric overprints the initial NNW one. This secondary fabric is oriented at roughly 055 degrees. In this zone, a lot of the bedding strikes deviate towards the 055 degree trend. Outcrop evidence reveals strong bedding transposition and small scale folds along this 055 degree trend (ie. small fold @ BL+2W clearing). Dykes of lamprophyre and quartz-carbonate veins appear to occupy this trend as well.

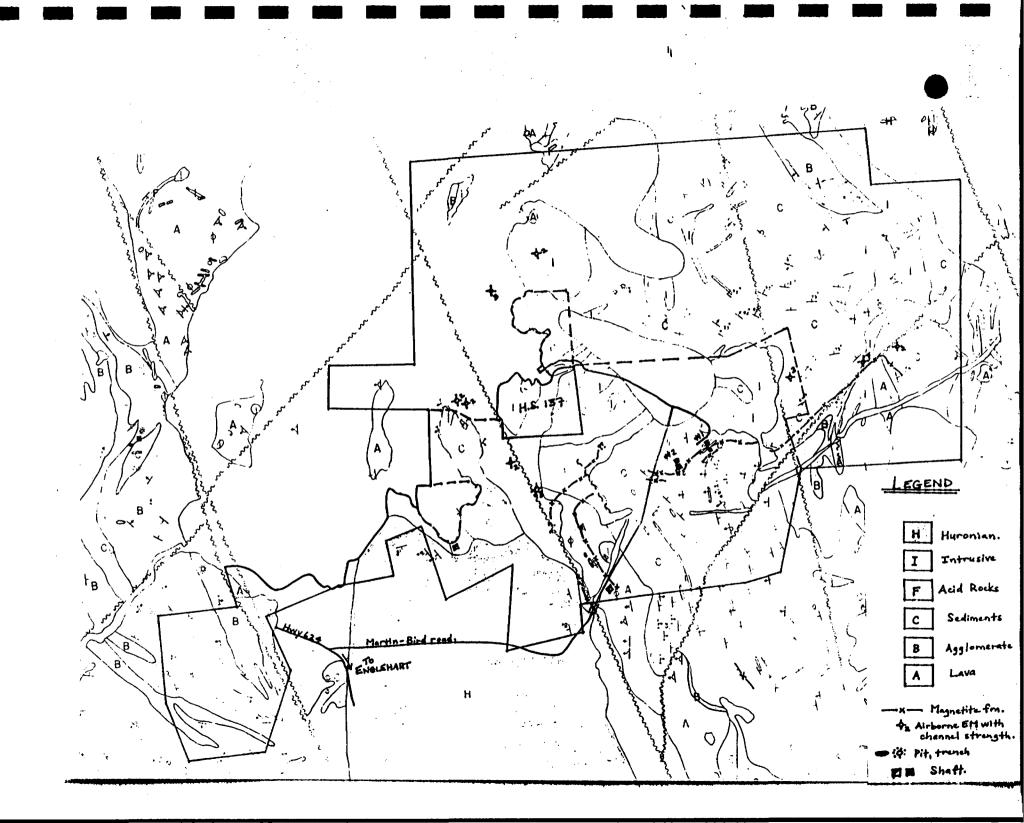
Closer scale mapping and stripping will be required to get a better understanding of the geology here.

### C. Faults

The following is a listing of the most significant directions of faulting:

- 1. Rift NNW 315-330 produces some large fault scarp cliff faces (vertical and rotational movement)
- 2. E-W (ESE) 95-105 indicated by low lying areas
- 3. NNE 10-20 offsets and dislocates Martin-Bird ore zone
- 4. NE 60-80 055 degree trend (often filled by lamprophyre dykes or quartz veins some mineralized with gold)





### D. Economic Geology

Quartz veining is prominently developed in all rock types on the property and generally trends N-S to NE/SW. Vein fillings are usually of whitish bull quartz. Numerous observed examples of folded quartz stringers and veins are suggestive of at least two periods of vein formation. Minor sulphides of iron, copper, and zinc can, at times, be seen in the veins.

In several localities on the claim group evidence of old trenching was found. Usually these trenches were put down on heavily quartz veined or on sulphide-bearing rocks. No significant values were returned upon resampling of these trenches.

The most significant appearing target at present would have to be the base metal potential of the two graphitic/carbonaceous units as traced out by IP Anomalies I and IIa.

#### GRAB SAMPLING

During the course of the geological mapping and sampling program, a series of rock samples were taken for analysis. In total, 123 samples were selected and analyzed for gold and other elements as deemed warranted.

This sample suite was selected to test background unmineralized rock types and anomalous, interesting looking rocks mineralized with pyrite, showing marked alteration or a degree of quartz veining. Any anomalous looking float boulders were also sampled. Gold values were reported at the parts per billion level and base metals in parts per million.

Sample locations and analyses are shown on plan Kthu 3, and are also described in Appendix 1a and 3a.

Of the total 123 grabs taken, 97 returned nil gold while only 26 contained gold values which ranged from 3 to 48 ppb's. The high value of 48 ppb's was returned from sample 8720 located on the northern portion of Line 8 West.

Generally, the areas of low anomalous grab values also showed up anomalous on the basis of an earlier humus sampling program.

A clustering of six anomalous grabs on the eastern side of claim L 979429 appears to coincide with two humus geochem highs trending through this area.

Grab sample number 2651 ran 14 ppbs and appears to coincide with a 45 ppb humus geochem high.

Grab sample number 8768 ran 21 ppbs Au and appears to lie flanking a humus geochem gold high of 45 ppbs.

In the southwestern corner of claim L 955116, a clustering of low gold grabs (twelve in all) appear to flank magnetic highs, although there is no high humus geochem.

Only one sample was analyzed for base metals and returned only background levels.

Perhaps more intensive prospecting in these areas may be warranted.

### DRILL CORE SAMPLING

At the commencement of the geological mapping program, nine diamond drill holes (4,049 feet) that had been drilled in 1980 and 1983 were reviewed to familiarize ourselves with the various rock types likely to be encountered on the claim group. From this review, 69 core samples were selected from 3 holes (LL-83-6, LL-83-8, and TS-80-Ex2) to test for gold and base metal values. These particular sections of the holes were deemed as insufficiently sampled, especially in terms of the base metals.

The results of the sampling are given in Appendices 2 and 3b.

The hole locations are indicated on plan Kthu-4.

Gold values are stated in parts per billion and base metal values in parts per million.

Only very low values in gold were returned. The highest value from sample 31955 ran 38 and 27 ppb's Au.

Copper values showed essentially background levels. Silver showed some enriched samples (2905, 31925) corresponding to lead-zinc highs, although generally it was fairly low level.

In terms of zinc, eleven samples showed values greater than 0.1% Zn with a high value of 0.76% Zn over 3.5 feet in hole TS-80-Ex2, and a 0.46% Zn over 5 feet in hole LL-83-8.

Lead value highs generally corresponded closely to those of zinc, in all eleven samples showed values greater than 0.1% Pb. The high Pb value was 0.37% over 4.4 feet in hole LL-83-8.

Sphalerite and galena were observed in a lot of the core that was sampled.

Graphitic-rich interbeds lying close to the sediment/volcanic interface would appear to be the source of many of the anomalous base metal values.

An intensely altered intrusive quartz monzonite (?) in hole LL-83-8 (133.6-148.3 feet) carries most of the higher lead values obtained.

These base metal anomalous zones should be re-evaluated in terms of volcanogenic massive sulphide models. (ie. what about the weak airborne on L6W/6S, and does a major fold nose exist further to the east under Larder Lake?)

#### RECOMMENDATIONS

- 1. Magnetic and VLF-EM surveys could be contemplated at a different orientation, especially in areas where strike is running parallel to the lines (ie: on claim L 979429).
- 2. Max-min could be contemplated from LO to L16W south of the baseline to try to pin down the airborne conductor on L6W/6S.
- 3. More detailed mapping should be done using this map as a base. It would be especially important to try to use marker units to trace out the structural picture.
- 4. Overburden trenching or outcrop stripping is recommended at the following locales:
  - i) L8W/24+00N area of anomalous gold grab and humus sampling
  - ii) L0/8S south Quartz veins and trenching
  - iii) SW ?????? area of anomalous grabs
    - iv) L4W/15N north IP and arsenic humus anomaly
- 5. The following diamond drilling is recommended:
  - i) L36W/5S mag high; humus geochem (on patents)
  - ii) L0/4S, L6W/4S under hole LL-83-8
  - iii) L26W/4N (on patents)
  - iv) L6E/2N
- 6. It is recommended that the OGS be allowed access to do some geological studies on the Thunderwood Property, as they have recently requested.

### CONCLUSIONS

The geology of the property is highly complex with superimposed deformational events and an involved history of faulting. The lithological package on the property consists of ultramafic to basaltic komatiitic flows and flow breccias interlayered with turbiditic sedimentary rocks. Numerous small lamprophyre dykes are commonplace.

Outcrop evidence appears to indicate that an older NNW deformation fabric has been overprinted by a secondary deformation event with a fabric axis trending roughly NE. This second deformation produced the strong 055° schistosity, so much in evidence on the property, which was later filled by the lamprophyre intrusives and the Martin-Bird type quartz stringer and lode zones.

Mapping can often be quite difficult and time consuming as manual stripping and poor outcrop frequency often lead to misidentifying the NNW or 055° foliations as bedding. The transposition of bedding by axial planar cleavage can also be deceiving when dealing with spotty exposures. Mechanical stripping in a few key areas would be useful in this sort of terrain. Being able to trace out a few more marker units would also help resolve the structural picture. It is obvious that some tight fold noses, such as seen on the L2W/Baseline bulldozer clearing, have been missed during mapping and are crucial keys to the puzzle.

Two zones of graphitic-rich sediments (indicated by IP anomalous zone I and II), although not well exposed in outcrop, are noted in drill core and occur at the interface between sediments and volcanic rocks (mainly ultramafics). It has not been established whether the [north (II) and south (I)] anomalous IP zones could represent a folded or thrusted repetition although at least one fold nose was noted nearby. These graphitic zones contain basemetal mineralization and should be evaluated on the basis of a volcanogenic massive sulphide model.

The types of gold targets that could be encountered in this terrain are as follows:

- Martin-Bird type Magnetite iron formation hosted quartz vein lodes
- 2. Kerr-Addison type Pyritic/Albitite Flow ores
- 3. Kerr-Addison type Green Carbonate/syenite dyke ores
- 4. Langmuir/Redstone type Nickel/Precious metal sulphide ores

Work to date has failed to reveal any obvious areas of interest in terms of gold mineralization.

Although one of the prime objectives of this mapping program was to explore for the eastern extension of the Martin-Bird gold zone, this was not expecially fruitful as it appears the magnetite iron formation has been fault offset. Originally, it was felt that the iron formation of the Martin-Bird zone experienced a facies change into IP anomalous zone II, however, more current thinking is leaning towards the idea of a fault offset to the zone (NNW trending fault). It is felt that a possible extension to the ironstone exists on the patents at L36W where a discrete magnetic high underlies the best gold humus anomaly on the property. The rocks seen on the NW claim appear to show the most similarities to the rocks in the Martin-Bird zone. A breccia zone identified just east of L8W shows many similarities to one seen close to the Number 1 shaft at the Martin-Bird zone.

Work is recommended to follow up these two areas of interest.

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- 4. Hinse, G.J. (1973): Geological Report on the Robbins-Larder Option "0-10" "East 20 Claim Group", Hearst Township, Ontario. Internal company report. December, 1973.
- 5. Keppie, J.D.; Boyle, R.W.; Haynes, S.J. (1986): Turbidite Hosted Gold Deposits. GAC Special Paper 32, 186 pp.
- 6. Thomson, J.E. (1947): Geology of Hearst and McFadden Townships, ODM Annual Report Volume LVI, Part VIII, 34 pp.

### CERTIFICATE OF QUALIFICATION

I, Chris Pegg of P.O. Box 59, 10 Beaver Drive, Chaput Hughes, Ontario, POK 1AO, do hereby certify that:

- 1. I am a graduate of Queen's University, Kingston, Ontario and hold an Honours Bachelor of Science degree in geological sciences (1977).
- 2. I am a geologist employed by LAC Minerals Ltd. and have practised my profession continuously since graduation.
- 3. I personally supervised the fieldwork described herein.

Chris Pegg

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# SAMPLE NUMBER SERIES

# A. Grab

2601 to 2659 59 8701 to 8749 49 8760 to 8774 <u>15</u>

123 samples

## B. Core

2901 to 2920 20 8750 to 8759 10 31759 to 31760 2 31919 to 31955 <u>37</u>

69 samples

# C. Whole Rock

8401 to 8440

40 samples

TABLES OF GRAB SAMPLE
LOCATIONS AND DESCRIPTIONS

SAMPLE NO.	SAMPLE LOCATION	DESCRIPTION
2601	L4W / 135N on line	Massive bedded Sandstone
2602	L4W / 150N 20 to 30 feet W of line	Composite of qtz stringers over 20 ft across schistosity
2603	L4W / 210N 20 feet W of line	Quartz stockwork & altered wallrock sandstone
2604	L4W / 330N 20 feet W of line	Syenite 1% pyrite
2605	L4W / 375N cliff outcrop on line	Composite of flat east dipping qtz-chlorite-hematite veinlets
2606	L4W / 925N 20 feet E of line	Quartz-chlorite veinlets & altered wallrock Sandstone 1% pyrite
- 2607	L4W / 1425 on line	Phyllitic schist
2608	L4W / 1435 on line	Feldspar porphyry fragment dominated agglomerate
2609	L4W / 1575N 20 feet W of line	Silicic agglomerate with trace fine pyrite
2610	50 feet E of L4W / 1765N on N clm line	Silicic gritty agglomerate/conglomerate with trace fine pyrite
2611	LO / 1435 on line	Very finely laminated mudstone with quartz veining (folded bedding)
2612	LO / 1020 N 25 feet E of line	Green choncoidal fracturing chert
2613	LO / 550 N 45 feet E of line	Syenite with 1% very fine pyrite
2614	LO / 225N on line	Quartz veining in altered feldspar porphyry 1% pyrite; trace Cr mica
2615	LO / 240N on line	Fine qtz veinlets in altered feldspathic sandstone trace pyrite
2616	L8W / 880N on line	Tuffaceous agglomerate
2617	L8W / 760N on line	Syenite (locally pyritic 2%)
2618	L8W / 540N on line	Contorted quartz stringers in contorted sediments
2619	L8W / 535N on line	Biotitic Lamprophyre
2620	L8W / 225N on line	Phyllitic Siltstone
2621	L8W / 115N on line	Siltstone 1% pyrite
2622	Base Line + 630W Cliff face	Siltstone o/c
2623	Base Line + 550W on line	Sandstone. Trace pyrite
2624	Base Line + 225 NE on line	Schisty sediment
2625	Base Line + 625 NE on line	Large milky quartz veinlet / Altered wallrock with pyrite

SAMPL NO.		SAMPLE LOCATION	DESCRIPTION
2626	6	L8E / 130N 35 feet W of line	Quartz veined feldspar porphyry
2627	7	L8E / 210N 25 feet W of line	Buff massive sandstone
2628	8	L8E / 255N on line	Heavily Quartz veined buff sandstone unit
2629	9	L8E / 280N on line	Highly veined and altered sediment approaching feldspar porphyry appeara
2630	0	L8E / 815N 15 feet E of line	Massive Sandstone
2631	1	L8E / 955 N on line	Well bedded silicic sediment
2632	2	EW clm line - 70 feet to E of L8E EOL	Well bedded sandstone
2633	3	EW clm line - between L4E & L8E	Syenite in small pit on N Boundary; 2% pyrite
2634	4	EW clm line (just off L4E to E)	Syenite outcrop; qtz stringers
2635	5	L4E / 680N 50 feet E of line	Quartz vein & wallrock in syenite
2636	6	L4E / 670N 15 feet E of line	Syenite
2637	7	L4E / 410N 20 feet W of line in Clearing	1% pyrite in Syenite
2638	8	L4E / 350N 50 feet E of line in Clearing	Salmon pink feldspar porphyry or Sandstone; rusty 3% pyrite
2639	9	L2W / 030S on line	Quartz stringer & wallrock sediments; cutting banded sediments
2640	0	10 feet S of pin M81 in large clearing	Green coarse clastic folded unit; trace pyrite
2641	1	L4W / 3S 20 feet S of picket in clearing	Quartz stringers in sediments
2642	2	L4W / 715S 10 feet W of line	Quartz stringers in sediments
2643	3	L4W / 750S 20 feet E of line	Quartz stringer zone in sediments
2644	4	L4W / 825S on line	Black carbonaceous mudstone on border of lamp dyke, trace pyrite
2645	5	LO / 825S 45 feet W of line	Smoky quartz veinlets & wallrock
2646	6	LO / 800S 20 feet W of line	Composite of smoky qtz stringers in sediments
2647	7	LO / 825\$ 40 feet W of line	Carbonaceous shale
2648	8	LO / 870S 10 feet W of line	Wallrock & Qtz stringers in sediments; trace pyrite
2649	9	LO / 945S on line	Sediments outcrop
2650	0	LO / 1210S 15 feet W of line	Diabase outcrop -Trace cpy, py and magnetite?
2651	1	LO/ 15S on line	Black smoky quartz and sediment wallrock

SAMPLE NO.	SAMPLE LOCATION	DESCRIPTION
2652	L4E / 1230S on line	Feldspathic wacke in contact with siltstone (minor qtz veinlets)
2653	L4E / 1170S 10 feet W of line	Shale inclusion rich sandstone
2654	LO / 325\$ 20 feet E of line	Siltstone
2655	L4E / 500S 20 feet E of line	Cherty Graphitic tuff; 2% pyrite
2656	L4E / 100S 30 feet E of line	Buff cherty Sandstone; Trace pyrite
2657	L4E / 120S 10 feet E of line	Quartz-chlorite vein in siltstone
- 2658	L8E / 120S 20 feet W of line	Quartz fly rock from old trench
2659	Base Line + 720E 20 feet s of Baseline	Quartz stockwork and 2% coarse pyrite in syenite

SAMPLE NO.	SAMPLE LOCATION	DESCRIPTION
8701	L8W, 15+50S 200 feet W of line	Feldspar -rich Pebble conglomerate
8702	L8W, 12+90S 50 feet W of line	Talcose Mafic to Ultramafic Agglomerate
8703	L8W, 11+90S 100 feet W of line	U/M flow
8704	L8W, 12+30S 170 feet W of line	U/M flow
8705	L8W, 10+10S; 20 feet W of line	Mafic flow, flow Breccia
8706	L8W, 8+50S 50 feet W of line	Mafic flow, flow Breccia
8707	L8W, 7+40S, on line	Mafic flow, flow Breccia
8708	L8W, 7+20S 50 feet E of line	Syenite Intrusive
8709	L8W, 5+20S 50 feet W of line	Quartz pods in Sandstone
8710	L8W, 4+00S 30 feet E of line	Sandstone
8711	L8W, 3+80s on line	Sandstone Interlaminated with Siltstone
8712	L8W, 1+70S on line	Ultramafic Sediment
8713	L8W, 28+70N 20 feet E of line	Sandstone containing Specular Heamatite. Trace Pyrite
8714	L8W, 27+90N on line	Sandstone containing trace pyrite
8715	L8W, 27+20N on line	Sandstone containing trace pyrite
8716	L8W, 25+90N on line	Sandstone
8717	L8W, 26+10N 140 feet E of line	Specular Heamatite and Sodic feldspar vein
8718	L8W, 25+30N 180 feet E of line	Quartz-feldspar Vein
8719	L8W, 24+80N 60 feet W of line	Sandstone containg ptygmatically folded quartz veins
8720	L8W, 24+10N on line	Sandstone
8721	L8W, 22+80N 20 feet E of line	Sandstone
8722	L8W, 21+70N on line	Sandstone containing Specular Heamatite
8723	L8W, 20+65N on line	Diabase intrusive
8724	L8W, 20+40N 10 feet W of line	Sandstone adjacent to Diabase (sampled as 8723)
8725	L12W, 8+90N on line	Sandstone

8749

BLO, 16+20W on line

SAMPLE NO.	SAMPLE LOCATION	DESCRIPTION
8726	L12W, 8+30N 25 feet W of line	Pebbly Conglomerateconsisting of Mudstone
8727	L12W, 7+40N 150 feet E of line	Ladder-type quartz vein in Sandstone
8728	L12W, 5+70N 40 feet W of line	Barren Siltstone/Arkose
8729	L12W, 6+00N 130 feet W of line	quartz and Limonite in Siltstone
8730	L12W, 5+90N 160 feet W of line	Quartz Pods in Siltstone; oriented 320 degrees az.
8731	L16W, 7+25N 40 feet W of line	Quartz pods in Pebbly Sandstone
8732	L16W, 6+70N 10 feet E of line	Quartz vein oriented at 055 az
8733	L24W, 16+00S 150 feet E of line	Mafic Conglomerate
8734	L24W, 15+55S 10 feet E of line	Pebble conglomerate containing mafic clasts
8735	L24W, 15+30S 40 feet W of line	Syenite Intrusive containg specular Heamatite
8736	L24W, 14+40S 260 feet E of line	Mafic Flow containing Calcite
8737	L24W, 13+60S 40 feet W of line	Mafic Flow breccia / Mafic Agglomerate
8738	L24W, 10+90S 30 feet E of line	Mafic Flow
8739	L24W, 11+00S 40 feet E of line	Mafic tuff containing calcite
8740	L24W, 9+00\$ 10 feet W of line	Mafic sediment / Grey Wacke
8741	L24W, 6+80S 220 feet E of line	Greywacke
8742	L24W. 5+20S 160 feet W of line	Mafic Sediment
8743	L24W, 4+25\$ 45 feet W of line	Huge Quartz Pod containing graphitic Fracture filling
8744	124W, 3+70S 40 feet W of line	Quartz veinlet in Arkose
8745	L20W, 2+50S on line	Quartz vein in Siltstone
8746	L20W, 3+00S on line	Greywacke and Siltstone with quartz veining
8747	L20W, 12+40S on line	Mafic Conglomerate
8748	L16W, 8+60S 30 feet W of line	Limonitic Green Carbonate boulder

Quartz vein in Greywacke

SAMPLE NO.	SAMPLE LOCATION	DESCRIPTION
8760	L12W, 1+40N 70 feet W of line	Mafic Flow Breccia
8761	L12W, 1+25N 100 feet E of line	Silicified Mafic Volcanics or Andesite adjacent to 8762
8762	L12W, 1+20N 90 feet E of line	Quartz vein hosted by 8761
8763	L12W, 15+40S on line	Flow top breccia
8764	L12W, 13+65S 20 feet W of line	Mafic fragmental; recrystallized
8765	L16W, 14+20S 70 feet E of line	Breccia containing green carbonate, quartz
- 8766	L12W, 8+10\$ 30 feet E of line	Flow top breccia
8767	L12W, 5+00s on line	Grits / Siltstone containing pyrite
8768	L12W, 2+70S 150 feet W of line	Ptygmatically folded quartz vein in Sediments
8769	L28W, 12+00S 70 feet W of line	Feldspar Porphyry
8770	L28W, 11+10S 40 feet W of line	Syenite Porphyry
8771	L28W, 12+10S on line	Greywacke
8772	L24W, 16+00S 130 feet E of line	Mafic Flow
8773	L24W, 9+10S 25 feet W of line	Mafic Tuff
8774	L16W, 9+00S 100 feet E of line	Boulder of Green Carbonate; Ankerite with Quartz Veining

DIAMOND DRILL HOLE LOGS WITH ASSAYS

DRILL HOLE NUMBER

TS - 80 - EX 2

TOTAL DEPTH CO-ORDINATES COLLAR DIP TESTS (TRUE DIPS) PLOTTED ON PL WORKING PLACE DEP. E+ DEP. E+ AT GEOLOGICAL 1: 120'	2
WORKING PLACE	AHS
SECTION	
LOGGED BY GORDON Brethour BEARING South AT	
DATE FINISHED ANGLE 45° DRILL 1"#20"	
CORE FOOTAGE  PROW TO  DESCRIPTION  DESCRIPTION  OBSERVED TO  LENGTH I II AV	ON II VE SAMPLE F

	FROM	OPTAGE 10			FROM	TO	LENGTH	ASSAY	02+ 6	SOLD PER	TON	SAMPLE	AEM
	<del> </del> -	<del> </del>		NO.				-	-+			NO_	-
	0.0	10.5	Casing.	<del> </del>		<del> </del>	<del> </del>	<del>                                     </del>	+		<del>                                     </del>	<del> </del>	<del></del>
	+	<del> </del>		<del> </del>		<del> </del>	<del> </del>	├─-├-	$\dashv$			<del></del>	
	10.5	11.3	Greywacke or Tuff;	5265	10.5	11.3		<del>   </del>	002		-	<del> </del>	
	+	<del> </del>	·	3203	10.3	1 ****		<del>                                     </del>	~4		-	<del> </del>	<del></del>
	+	<del> </del>	grey-green, bedding 50° C.A., barren - minor py, banded near lower	<del> </del>	<del> </del>			├─-├-	-	+	<del> </del>	<del> </del>	
	<del></del>		Consect.	<del> </del>	<del> </del>	<del> </del>	<del> </del>	<del>i</del>	+		<del> </del>	<del></del>	_
<del></del>	11.3	14.5	Syenite?	66	11.3	14.5		n	11	+-	-		<del></del>
			grey, slight sheared appearance, silicified, numerous cherty ribbons	1		1 313			~		-		
			and fragments, minor py.						士	工			
				1	<u> </u>	1							L
	14.5	17.7	Agglomerate?	67	14.5	17.7			002	′			
			grey, fragments, elongated, bedding? 45° C.A., 25" irregular section						$\perp$				
	1		of chert, qts. & calcite.	<u> </u>		<u> </u>					11		
		<u> </u>			<u> </u>	<u> </u>						Cu. %/to	n
	17.7	36.7	Greywacke?	68	17.7	20.3			11			0.01	
			grey-green, numerous injections of qtz. bedding	69	20.3	24.0		n:	11		Ī		
			contorted, minor py.	70	24.0	25.5		ni	11				
			20.3-24.0, minor -2% py.	71	25.5	28.2		ni	ıı 📗				
			24.0-25.5, silicified greyish, numerous injections	72	28.2	28.4		ni	11				
			of qtz. 31-51, fine-med. py., speckled	73	28.4	28.7		.0	002	$\top$			
			28.2-28.4 ankerite						Т				
			28.7-29.3 several injections of qtz. with few large blebs of chalcopyrite	74	28.7	29.3	0.6		002,		-	2.57	
			@ 29.0, @ 36.2, small bleb of chalcopyrite	75	29.3	30.3		n f	1				
				76	35.7	36.7		n1	ī				
	36.7	40.2	Tuff;						Т				
			abundant chertz banding, several small injections of qtz., few	77	36.7	40.2						0.04	
			erratic blebs of chalcopyrite, minor py.										
	40.2	43.1	Greywacke?	78	40.2	43.1		.0	02	$\Box$			
			dark grevish, silicified, several injections of ankerite, qtz.			1							
			6 chert, 3% - 5% fine-med, py.			<u> </u>		L	-1	1	1 _ 1	1	i

IPAN	YY		PROPERT:			-			PHEE.					_	
				DIAMOND DRILL R	ECORD				HOLE N	UMBER.	T.5	S. BO-	Ex. 2	-	
			TOTAL DEPTH CO-ORDINAT	ES COLLAR	DIP TES	TS (TRUI	E DIPS)				PLOT	TTED ON	PLANS		
			WORKING PLACE LAT. N-	OEP. E	AT		c		eEOLOGIC	AL 114	50.				
			SECTION TO COLLAR	· · · · · · · · · · · · · · · · · · ·	AT		¢								
			LOGGED BY BEARING		AŢ		. •								
			DATE FINISHED ANGLE	*				ORILL	l''#20'					~~~	، روسد
	CORE FO	OTAGE			<del></del>	77	Τ		r. —	ASSA	024 6	OLD PER		JE SPW	ZNppm
	FROM	10	DESCRIPTION			AMPLE NO.	FROM	το	LENGTH	Aut		"Ag		SAMPLE NO	REM.
		,				279	43.1	44.1			nil	737	77		
	43.1	50.2	Chlorite Zone;				45.51	49.0	4.5		-	0.1	1-1-	7	175
			dark green-blackish, moderately-hi	ghly schistose		280	49.2	50.2	1	T***	.005	1=-1	1	-	
			minor - 3% py. in places, broken a	nd blocky.											
	50.2	55.5	Sweet to .			41	10.0				$\Box$	1	H		
	30.2	33.3	Syenite:			81	50.2	55.5			<u>111</u>	<u></u>	<del>                                     </del>		
			dark greyish, somewhat basic, mino	r -3% fine-med, py. in places				<del> </del>					<del>                                     </del>		
	55.5	63.9	Chlorita Zono							<del> </del>			╀┷┼		<del></del>
	33.5	03.9	Chlorite Zone;			82	55.5	56.5			.002		<b>├</b> ─┼	i	
	<del> </del>	ļ <u> </u>	as above (43.1-50.2) lineation 45°	C.A.			10:		<del>  </del>				<del>!                                    </del>	<del></del>	
	1						62.4	63.9	Los	cor	•		<b>├</b> -		
	63.9	72.0	Syenite?				<del> </del>		<del> </del>	╁╼╼┤			<del>  -</del>		
	1		as above (50.2 - 55.5)	······································		83	63.9	67.6		┼─┤	111				
			67.6 - 68.7, numerous injection of	Qtz., 5% medcoarse my-		84	67.6	68.7			***	-	<del>                                     </del>		
				.,,		285	68.7	72.0			$\neg \uparrow$	+	1-1-		
	72.0	79.3	Chlorite Zone;			86	72.0	73.0							
			as above (43.1-50.2) lineation 45°	C.A.	2	902	75.	78.5	3.51	3		0.1			121.
	1					87	78.3	79.3			$\Box$				
	79.3	83.7	Syenite:	****		88	79.3	82.2							
			as above (50.2 - 55.5)	5% py.		89	82.2	83.7			11	_			
	<del>                                     </del>			<del></del>									L	\.	
	83.7	85.3	Chlorite Zone;			90	83.7	85.3			002	-			
			as above (43.1 - 50.2)								_	+-	┝╌┼╴		
	85.3	92.4	Syenite?			91	85.3	86.7			11	+	$\vdash$		
			as above (50.2 - 55.5)			92	86.7	91.0			002	1			
				:			91.0	92.4			005	1			
	92.4	94.2	Chlorite Zone;												
			as above (43.1 - 50.2) lineation 4	5° C.A.		94	92.4	94.2			nil	1			
	94.2	96.7	Syenite? AS ADDVP (SO 2) (S. 1) (# 7# fige			95	94.2	96.7		1	nil	1			

COMPANY... DIAMOND DRILL RECORD CO-ORDINATES COLLAR DIP TESTS CTRUE DIPSI TOTAL DEPTH PLOTTED ON PLANS WORKING PLACE LAT. N- ..... DEP. E-.... GEOLOGICAL 1" #20" BEARING ..... LOGGED BY..... DATE FINISHED ..... ANGLE .... ASSAY DZO GOLD PER TON II'' SAMPLE SAMPLE NO. FROM DESCRIPTION 96.7 97.7 Chlorite Zone; 5296 96.7 97.7 as above (43.1-50.2) 97 97.7 97.7 99.8 Syenite? 99.8 nil as above (43.1-50.2) with 6" inclusion of chloritic schist @ 98.7 99.8 101.3 Chlorite Zone 98 99.8 101.3 nil as above (43.1- 50.2) 3% med.-coarse py. 102.7 99 101.3 102.7 **p11** Syenite? as above (50.2 - 55.5) 102.7 114.6 5300 102.7 103.7 nil Chlorite Zone; 5301 113.6 114.6 as above (43.1 - 50.2), contorted, lineation irregular. 02 114.6 114.6 115.1 115.1 .002 as above (50.2 - 55.5) 03 115.1 116.1 115.1 127.0 Chlorite Zone; .002 as above (43.1 - 50.2), linestion 45° C.A. 2903 123.5 125 125.0 127.0 Lest Core Tuff; 127.0 133.1 chertz banding, bedding 45° C.A. 04 142.4 143.4 133.1 143.4 Chlorite Zone; hil am above (43.1 - 50.2) 05 143.4 144.6 143.4 144.6 411

PROPERTY \_\_\_

as above (50.2 - 55.5) 5% py., traces of chalcopyrite.

	COMPANY		PROPERTY					SHEET HUMBER						
	COMPANY		DIAMOND DRILL RECO	R D			HOLE N	UMBER.	T.S.	80-Ex.2				
			TOTAL DEPTH	DIP TESTS (TR	UE DIPS)				PLOT	ED ON PLA	es .			
			NORKING PLACE	·	•		GEOLOGIC	AL 1 H	20'					
			SECTION TO COLLAR	ł										
				r										
			DATE FINISHED ANGLE				L 1"#20"					,		
											PHON			
	CORE FO	OTAGE	DESCRIPTION	SAMPLE	FROM	70	LENGTH			H AGAM		REM.		
-		<del> </del>		HO.	<del> </del>		+	Pu (p	- 1(49	<del>-13640</del>	ND.			
<del></del>	144.6	170.0	Chlorite Zone;	5306	144.6	145.9	<del> </del> -	╂╾╾┤	n11	╂━╂━	+	<del> </del>		
<del></del> -		270.0	as above (43.1 - 50.2)	07	145.9	146.3	+	<del>1 - 1</del>	nil	<del>-  -</del>	<del> </del>	<del> </del>		
<del></del>			@ 145.9, 5" inclusion of syenite? with 1" patch of py.	08		147.7	┼──		nil	+	<del> </del>	<del> </del>		
<del></del>			146.3 - 147.7, light grey-green, carbonatized, abundance of dark	<del></del>		-	<del> </del>		_	+	1	<del> </del>		
		<del> </del>	elongated phenocrysts, barren.		<del> </del>	<del> </del>				+	<del>                                     </del>	<del> </del>		
<del></del> -	<del></del>		147.7 - 170.0, erratic small inclusions of syenite?		<del> </del>	<del> </del>	1			+	<del>                                      </del>	<del>                                     </del>		
				1	<del> </del>	+	<del> </del>			+	<del> </del>	<del> </del>		
	170.0	173.4	Greyvacke?		<del>                                     </del>	<del> </del>	<del> </del>			1-1-	<del> </del>	<del> </del>		
			greyish, few small injections of qtr. 6 calcite, barren	1	<del> </del>						1	<del></del>		
			172.6 - 173.4, grey-light grey, abundant medium sized feldspar phenocrysts.		1				$\neg$	1 1		<del>                                     </del>		
<u> </u>								$\Box$	$\neg$			<del>                                     </del>		
	173.4	179.2	Chlorite Zone;							TTT				
			as above (43.1 - 50.2)		1									
<u></u>					1						T			
	179.2	180.2	Greywacks:											
			grey-green-dark grey-green, speckled, barren, minor py.									L.		
*			•								<u> </u>			
	180.2	181.0	Lemprophyre Dyke;									<u> </u>		
						<u> </u>				1 1		<u> </u>		
	181.0	182.7	Greywacke?	09	181.0	182.7		1	nil		<u> </u>	ļ <u> </u>		
			as above (179.2 - 180.2)		<u> </u>			Ш						
•						<u> </u>		<b>⊢</b>			<del> </del>			
	182.7	183.8	Basic Tuff;				ļ	Щ.	000	<del>                                     </del>	<del> </del>	<u> </u>		
-			bedding 50° C.A., 2% - 3% py. traces of chalcopyrite.	10	182.7	183.8		<b></b>	.002		<del> </del>	ļ		
								<b>⊢</b>		<del>  </del>	<del> </del>			
	185.8	187.3	Chlorite Zone;	11	186.8			11	nil	<del>  </del> _	<del> </del>	967		
			abundant carbonatization, barren-traces of py,	2904	186.5	189.5	3.0	ИЩ	$\dashv$	0.4	676	306		
****					189.5	193_	3.2	И́Л		0.9	59D	17350		
-				2906	193	197	4.0	14		0.2	1561	1560		
					<del> </del>	<del> </del>	<del>  </del>	<del></del>		<del>                                     </del>	+	<del> </del>		
					<del> </del>	<del> </del>	<del> </del>	<del></del>		+	+	<del> </del>		
<del></del>					<del> </del>	<del> </del>		<del>  </del>		<del>! ! . !</del>	<u></u>	<del></del>		

MPANY		PROPERTY				SHEET A						
		DIAMOND DRILL RECO	R D		HOLE HUMBER T.S. 80-Ex. 2							
		TOTAL DEPTH CO-ORDINATES COLLAR D	IP TESTS ITRU	E DIPSI	PLOTTED ON PLANS						:	
		WORKING PLACE DEP. E AT				GEOLOGIC.	AL 1"+	20.				
		SECTION TO COLLAR								· · · · · · · · · · · · · · · · · · ·		
		LOGGED BY BEARING					• ••••					
		DATE FINISHED ANGLE			DRILL	1"=20"						
CORE FO	DOTAGE	DESCRIPTION	BANPLE	FROM	to	LENGTH	ASSA	Y OZs	COLD	ER TON	II SAMPLE	REN.
7808	"	SECULI IIV	NO.		<u> </u>	-	⊢		<u>"</u>	AVE	NO.	,
187.3	194.0	Greywacke?		<del> </del>	<del></del>	<del> </del>	-	-		+-	<del> </del>	<del></del>
	1	dark greyish, several small injections of qts. & calcite, slightly		i	1	<b>†</b>			$\vdash$		<del>                                     </del>	
		speckled, barren to traces of py.										
									$\Box$			( p. 1322 8+
194.0	198.2	Chlorite Zone;	5312	197.2	198.2		0.00	-			ļ	CP. CEL
	ļ	as above (43.1 - 50.2)	-			<del> </del>	<u> </u>		$\perp$	┷		<b> </b>
	l					<del> </del>		$\vdash \vdash$		- -		<u> </u>
198.2	200.5	Graphite Zone; several small injections of qts., 5%-7% py.	<del></del>	198.2	200.5	├	M.)		+			<del> </del>
	-	and a death and the state of th		<del></del>	<del> </del>	<del> </del>	╫╴	$\vdash$			<del> </del>	<del> </del>
200.5	210.3	Syenite?	14	200.5	205.5		<del>                                     </del>		$\vdash$	+-	<del> </del> -	
		gray-gray-brown, medcoarse grained appearance; few qtz, & calcite-	15	205.5	207.0	T	1				<del>                                     </del>	
		filled fractures, minor py.	16	207.0	210.3							
		207.0-210.3, fine grained, basic traces of py.					Т					
	ļ			ļ	ļ		1					
210.3	219.0	Acid Tuff;	17	210.3	215.0	ļ						<u> </u>
		banded 45° C.A., barren-traces of py.	18		219.0	ļ					ļ	ļ
219.0	22/ 0	Pt11. A		<u>`</u>	<del> </del>				-		<del> </del>	<del>                                     </del>
219.0	224.9	Rhyolite?	19	219.0	222.0	<del> </del>	<del> </del>	$\vdash$	+			
		grey-buff, massive abundance of qts. 6 cal. filled, hairline fractures, brecciated sections containing graphite, 32 py.	20	222.0	224.9		+		-	+-	<del> </del>	<del> </del>
		savesava assissava vortinana Brahusta, JA 97.	╅╾╩╴	=====	<del> </del>	-	$H^{-}$				<del>                                     </del>	
224.9	226.0	Cherty-graphitic, tuff;	5321	224.9	226.0		$\top$		$\dashv$	_		<del>                                     </del>
		banding 70° - 75° C.A.							$\neg \vdash$			l
							7					
226.0	229.1	Syenite:	22	226.0	229.1							
		buff-greyish, altered, silicified, 52-72 fine-med, py.					Ţ		$\perp$	$\perp$		
	-			ļ			¥		4			<b> </b>
229.1	230.6	Cherty graphitic tuff;	23	229.1	230.6	<b>b</b>	ИIJ			_ _		<b> </b>
		as above (224.9 - 226.0)				<del> </del>						
				<del> </del>	<del> </del>			$\vdash$				<del></del>
i				ļ	<b> </b>			_		_ _	ļ	<b></b>

		PROPERTY				BHEE7 /	KUMBER	٠	6			
OMPANY		DIAMOND DRILL RECO	R D									
		TOTAL DEPTH CO-ORDINATES COLLAR D	OIP TESTS (TRU	E DIPS:		•						
		WORKING PLACE LAT. N DEP. E AT		•		GEOLOGIC	AL 1	•20				
		SECTION TO COLLAR										
		LOGGED BY BEARING AT										
		DATE FINISHED				1"-20						
						,					Pboo	NZn
FRON	TO	DESCRIPTION	SAMPLE NO.	FROM	10	LENGTH		660	COLD P	AVE.	SAMPLE NO	REN
			<del>  ""</del>		<del>                                     </del>	<del>                                     </del>	1	PPPI	<del></del>	<del>9(           </del>	<del>1 NO</del>	<del></del>
230.6	231.6	Lemprophyre Dyke?	<del></del> -	<del> </del>		<del> </del>	1		-	+	<del> </del>	<del>                                     </del>
	1	highly altered, cerbonatized, creamy green, dark lathlike	2907	231	236	5'	N: I		0.	<u> </u>	142	10
		phenocrysts, barren.		2.36	2.38.5				0.	<del>_</del>	770	248
	1	,		238.5	_	1.5	_		0		486	TL3
231.6	234.3	Greywacke?		240	245	1 = 7	MI		0.	-	255	58
	1	233.5 - 234.3, graphitic section.	2911	245		-7	Nil		6.		760	Ĭ a
			2912	250			MI	$\Box$	0.	2	14on	14
234.3	238.3	Lamprophyre Dyke?						$\Box$		7	11.00	1
		as above (230.6 - 231.6)						$\Box$	$\Box$	1		
							$[ \Box ]$	$\Box$		1		
238.3	239.0	Syenite?										
		greyish, altered, silicified, barren.										
					<u> </u>							
239.0	241.2	Graphite Zone;										
						ļ						
241.2	256.1	Cherty graphitic tuff:			L		$\sqcup \sqcup$	$\sqcup$				
		bedding @ 65° - 70° C.A.					$\sqcup$	<b>  </b>				
	ļ			<u> </u>			$\vdash$	$\vdash \vdash$				<b></b>
256.1	259.1	Syenite?	<b>-</b>		ļ		$\vdash \vdash$			4		
	ļ	grey, fine-med. grained, occasional small qtz. & cal. filled			ļ			$\vdash$		4		
	ļ	fractures, barren.		<b> </b>	<u> </u>	-		<del>                                     </del>		4	<b> </b>	<b> </b>
	1000			<b> </b>	ļ		┟─┤			4	<b> </b>	-
259.1	260,7	Greywacke?  greyish, fine, few small qts. veinlets, bedding 75 C.A., barren.	<del></del>		<del> </del>		┟─┤	<del> </del> -	+		<b> </b>	
	<del> </del>	Barbard and day comment and the Civil Decree	<del> </del>				┝╌┤			╂		<del></del>
260.7	263.4	Syenite?					├──┤			+		
200.7	203.4	dark grey, fine grained, somewhat basic, speckled, few small qyz.	<del> </del>				├─┤		+	+		
	<del> </del>	& cal. filled fractures, traces of py.	+		<del> </del>	$\vdash$	<del>                                     </del>	$\dashv$	+	+	<del></del>	
	<del> </del>	ATRICUTES, ELECTE OF PY.	<del> </del>			<del></del>			+	+	·	
263.4	265.5	Basic - Intermediate Intrusive;	1				<del>                                     </del>	_		╁╾┤	<del></del>	
	1-203.3	Manay - Allermentage Michigare)	1					-	-	++	<del></del>	
	<del> </del>		<del>1</del>				-	-	-	+		
<del></del>	<del>                                     </del>				<b></b> -	<del>  </del>	_	$\dashv$		+	<del></del>	

OMPANY		PROPERTY		-			SHEET	NUMBE		. 80-1	F~ ?		
		DIAMOND DRILL R	ECORD				HOLE N	UMBER		. 80-1			
		TOTAL DEPTH CO-ORDINATES COLLAR	DIP TES	ITS (TR	UE DIPS)				PL	OTTED (	ON PLANS	\$	
		WORKING PLACE DEP. E	AT		•		GEOLOGIC	AL 1"	·· 20				
		SECTION	AT		······ •	****							
		LOGGEO BY BEARING	AT					····			*****		
		DATE FINISHED ANGLE				DRIL	L 1"=20"	<b>.</b>					z.
CORE F				-	Ţ.	Г	т		AY OZe		ER TON		<u> </u>
PRON	YO	DESCRIPTION		AMPLE NO.	FROM	10	LENGTH	A.	(490)		4(0000	SAMPLE NO.	RE
265.5	277.0	Syenite?			ļ	ļ	ļ	<del> </del>	1'1	$\vdash\vdash$	771-7	<b></b>	<u> </u>
1	1	dark grey, basic, few small qtz. & cal. filled fractures,		5324	274.4	275.4		<del>                                     </del>	<del>,  </del>			<del> </del>	ļ
		barren, minor py.		25	275.4	277.0	┼	N.	<del>  </del>		1-	<del> </del>	-
		275.4 - 277.0, 3X - 5X py.			1013.4	277.0	<del> </del>	<del> </del>	╁─┤			<del> </del>	
					-	<del> </del>	1		1		1	<b></b>	
277.0	278.7	Lamprophyre Dyke?		26	277.0	278.2		1	$\Box$			<u> </u>	
<u> </u>		altered, carbonatized, abundance of dark lathlike phenocrysts, b	erren										
<del></del>									$\Box$	工	工		
278.2	281.5	Greyvacke?	2	913	278	2.82	4.0	3	$\sqcup$	0.	Щ_		54
┪——	<del> </del>	greyish, slightly tuffaceous, bedding @ 50°, barren, minor py.	2	114	290.5	295.5	51	MI	-	Ď٠		182	162
281.5	284.0	Syenite?	2	715	295,5	300.8	5	Nil	<del>}</del>	<u>p.</u>	Ц	30	113
	204.0	grey-grey-brown, altered, brecciated backed, traces of py.			<del> </del>		-		╁━┤	+			<del> </del>
	<del> </del>				<del>                                     </del>		<del> </del>	┼	╂─┤	-	+		
284.0	287.0	Basic Tuff;		·	<del> </del>				$\vdash$	_	1	<u> </u>	<del>                                     </del>
		bedding @ 75° C.A.								$\neg$	1		i
ļ		•			1								
287.0	300.8	Greywacke;			Ì								
ļ		grayish, tuffaceous appearance in places, barren-minor py.								$\bot$			
		296.2 - 300.8, dark green, chloritic, elight tuffaceous appearance, barr	en.						$\vdash$				
300.8	303.5	Syenite?							╁╼┽			<b> </b>	
1300.0	303.3	dark grayish, basic, traces of py. as anove (265.5 - 275.4)	····	27	302.5	303.5			<del>                                     </del>			<b> </b>	
		g, vestes of py. as anyve (20313 - 27314)			<del> </del>		-	_			+		
303.5	308.8	Aplite Dyke?		28	303.5	305.7	<del>                                     </del>	-		$\dashv$	+		
		creamy gray - faintly pinkish, minor - 2% py. in places.		29	305.7	308.8		10		1			<u> </u>
		,						Ė		$\perp$			
										$\bot$			
							ļ	<u> </u>	$\vdash$	- -			
-					ļ						4	<u> </u>	<u> </u>
1			<del> -</del>		ļ. <u></u>	ļ		-	<del>                                     </del>				

**—** — — — —

ANY	<del></del>	DIAMOND DRI	LL RECORD			HOLE N	UMBER	T.S.	80-Ex.2		
		TOTAL DEPTH CO-ORDINATES COLLAR	DIP TESTS CYN	UE DIPS,				PLE	TTED ON		
		NORKING PLACE LAT. N- DEP. E-	•			GEOLOGIC	CAL 1'		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	LANS	
		SECTION TO COLLAR									
										*****	
				.,			• • • • • • • • • • • • • • • • • • • •	***************************************			•••••
		DATE FINISHED ANGLE			DRIL	r 1.m50.		•• •• •••		Por I ii	mag
FROM	TO	DESCRIPTION	BAMPLE	FROM	70	LENGTH	ASS/	Y OZo	COLD PER	TON II	حات.
	1 .0	Spend (191	NO.	1	<del>  ''</del>		Į₽.	(440)		AVE BAMPI	<del>`</del>
308.8	322.0	Greywacke?	5330	308.8	313.5	<del> </del>	1.	,	_	<u>'1</u> —	-
308.8	322.0	grey-green, bedding faint, 65° C.A., 2X-3X py.	31		314.5		N.	4			
	<del> </del>	313.5 - 322.0, dark green, highly chloritic, andesitic appearan		313.3	314.5	<del> </del>	┤	╂		$\dashv$	
	<del> </del>	Jaj. J - Jaz. C, usin Bissu, magnay convention saussitic Spysaisu		+	+	┧──	+	╂╼═┼			
322.0	324.0	Graphitic Tuff;	<del></del>	+	<del> </del>	+	+	<del>  </del>			+
	1	minor py.	<del></del>	+	<del> </del>	+	╁		-	<del></del> -	+
	1			1	<del> </del>	1	+	┢═┼			+
324.0	329.2	Greywacke?		1	1	1-	1-	╂╼┼	$\dashv$		+-
	1	as above (313.5 - 322.0)		1	1		1		1		十
	1			1	1						1
329.7	331.8	Lemprophyre Dyke?	32	330.8	331.8						+
		light creamy green, altered, carbonatized, barren									
											$\top$
331.8	335.8	Greywacke?	33	331.8	335.8						
	ļ	abundant reddish brown alteration, minor -2% py.				<u> </u>	<u> </u>				
	<u> </u>				<u> </u>	<u> </u>	<u> </u>		$\perp$		
335.8	336.3	Basic intrusive?	34	335.8	336.8	L	N·)		$\bot$		
		contact sharp.			ļ		l		44		
	ļ		12916	349.5	354.5	15'	Nil	├}-	02	65	44
336.3	338.8	Lamprophure Dyke;		<del> </del>		<del> </del>			++		+
	-			<del> </del>	<del> </del>	<del> </del>	-		+-+		+
338.8	340.1	Basic Tuff;		<del> </del>	<del> </del>	<del> </del>		<del>  </del> -	+-+		+
340.1	352.1	Lamprophyre Dyke?		<del> </del>	<del> </del>	<del> </del>			+-+	<del></del>	
340.1	332	as above (322.2 - 331.6)		1	<del> </del>	<del>                                     </del>		-+	+		+
	<del>-</del> -	20 EDUTE (JALLE - JJA10)		1	<del> </del>		_	-	+-+		+-
352.1	354.8	Basic Tuff;		1	1				+ +	+	+
		14" section with 20% irregular qtz. @ upper contact,		1	1						1
				1					1		1
			1	7	1				1-1-		

SHEET NUMBER.... PROPERTY\_ COMPANY\_\_ HOLE NUMBER T.S. 80-Ex. 2 DIAMOND DRILL RECORD CO-ORDINATES COLLAR DIP TESTS (TRUE DIPS) PLOTTED ON PLANS WORKING PLACE LAT. N- ..... DEP. E-..... GEOLOGICAL 1"#20" LOGGED BY..... DATE FINISHED ..... ASSAY OZO GOLD PER TON CORE FOOTAGE SAMPLE NO. DESCRIPTION 354.8 362.0 greyish-grey brown, fine-med. grained appearance, somewhat basic few qts. & calcite-filled fractures, traces of py. @ 355.0, 3/4" qtz., barren # 360.6, 2" qts. with graphite, barren. 362.0 363.8 Greywacke? grey-green, bedding faint, 65° C.A. 363.8 367.2 Graphitic Tuff; bedding 70° C.A. 317.7 368.7 Lamprophyre Dyke? as above (329.2 -331.8) 368.7 375.5 Basic Tuff: € 371.7, 5" inclusion lamprophyre E 322.4, 4" 375.5 379.4 Lamprophyre Dyke; as above (329.2-331.8) 379.4 395.0 Chlorite Zone; 2917 380 385 5'Ni 390 5 NI black, tuffaceous in places, bedding 75° C.A. 0-1 395.0 End of Hole.

DRILL HOLE NUMBER

LL - 83 - 6

!		derwood		URNAI <i>MOND</i>				ח			l	N	2	LL-8	3=6		_
anton		st Twp.				N			İ			Feuil	le <i>!</i>	1	de	31	
<i>WP</i> .01			Ligne / Line 10W St. 2+90S				0_	45 <sup>0</sup>	ــــا,	<u></u>	1	De / /	From	D	0/10_	468	_
ong <i>(e)_</i> ype de	Forage	8Q	LatLong	Pro	fondeur	/ Depth	-54 <sup>0</sup>	200 -51			10'	Profo	ndeur '	Totale	468	,	
rill T	ype	h & Sherwood	Elevation 32081 Azimut(h) 3250	Azi	mut(y)		-	-				Par /	<i>By:</i> Marc	G. Moi	ris &	C. Pe	<u>-</u>
D e	or Heat	h & Sherwood	Commence' le / Started_18/2/ G É O L O G I E	B3Ter	<del></del>		ECHAN		/SAM	PLES		Date	•	1 12-1 4 L Y S			_
From	To		GEOLOGY		1.5 m.	5.0 '	NΣ	De/Fr.									I
0	9	Overburden		· · · · · · · · · · · · · · · · · · ·						ļ						ļ	4
		•		<del></del>			<del> </del>	<u> </u>									4
9	18.3		y-medium-coarse tuff (feldspath	ic			<del> </del>	ļ		ļ						<u></u>	-
		greywacke).				-											1
		From 9'-12' co	oarse section of the tuff, only		] .					<u> </u>							1
		remnantsof Bd	. Note: Feldspars white in th	is													
		section.		•						ļ						<b> </b>	
		At 17'. Bd 47	o to core axis. Less than 1% p	yrite	] .					<u> </u>							1
		Minor calcite	veins-veinlets, from lcm-3mm t	hick.													$\downarrow$
		······································					<del></del>	<del> </del>									$\frac{1}{1}$
18.3	19.8	Broken up core	e LAMP? Dyke. No mineralizatio	n,			<del> </del>			<del> </del>						<del></del>	+
		a calcite vei	ning, dark brown in color.		-				<u> </u>								$\dagger$
19.B.	23.5	Fine grained	greywacke, From 22.4-23.2 core	is				<del> </del>								<del></del>	<b>†</b>
			le-gray unit with coarse to fin		] . '		<del> </del>										T
		Bd is 25 <sup>0</sup> to (	core axis. 1% pyrite. Minor c	alcite	] :												I
		stringers.			]												T

ojet r <i>oject_</i>		JOUR DIAMO							·	<u> </u>				
it ong <i>(e)</i> _ ope de rill Ti	Forage Per	Ligne/ <i>Line</i> St	Profondeu Plongée / Azimut(/)	Dip		,L			Shea De / I Profa Tota Par /	le f From indeur T / Depi By:	Totale			
De	à	GÉOLOGIE	1.5 m	5.0'		TILLON /				ANA	LYS	ES		_
From	To	GEOLOGY		+	Νº	De/Fr. à	To Long.						<del> </del>	+
23.5	25.3	Pale-green-chloritic-talc-schist. Upper contact		1				ļ	<u> </u>				<del></del>	1
		28° to core axis. Lower contact 30° to core axi		+ +		<del>- </del>		<del> </del>						1
		At 23.8 sch. is 360 to core axis. 1-3mm chlorit	е.			<del>  -</del>		<b> </b>	-	I				1
		spots throughout with a long axis 41° to core		1				<u> </u>	ļ					 +
		axis. No pyrite.			<del></del>	<u> </u>								
			_	1 1									ļ	1
25.3	26.1	Dark-gray-greywacke, very finely laminated bd.		] [										
		4mm thick. Bds 430 to core exis. No pyrite or											١	1
		quartz-calcite veins.											ļ	
				] [										
26.1	27	Pale-green-talc-chlorite-schiast. Same as												
		23.5 - 25.3.		] [										I
				Ţ										
27	32	Pale-gray-greywacke. Very fine laminated bd.,												
		appear very faint in this section. At 30' bd.		] [										
		is 31° to core axis. 1% pyrite. From 28.6-2	29.1	1										
		slightly alt. greywacke, almost alt. to talc-												
		chlorite schist. Calcite stringers appear in												
7		minor amounts.		1									1	1

LONG LAC MINERAL EXPLORATION 155 JOURNAL des SONDAGES Nº LL-83-6 Projet DIAMOND DRILL RECORD Project\_\_\_\_ Canton SECTION\_\_\_\_ TWP\_\_\_ De / From\_\_\_\_\_\_ \dagger / 10\_\_\_\_\_ Ligne/Line\_\_\_\_St.\_\_ Lot Rang(e)\_\_\_\_ Lat. \_\_\_\_\_\_ Profondeur / Depth Profondeur Totale Type de Forage Elevation \_\_\_\_\_ Plonge'e / Dip Total Depth\_\_\_\_ Drill Type\_\_\_ Azimut(h) \_\_\_\_\_ Azimut(h) Par / By !\_\_\_\_\_ Contracteur Contractor\_ Commence' le / Started\_\_\_\_\_ \_\_\_\_Termine' le / Finished \_\_\_ Date \_\_\_\_\_ GÉOLOGIE ÉCHANTILLON /SAMPLES De ANALYSES 1.5 m. GEOLOGY From De/Fr. a/To Long. To 32 Talc-chlorite-schist, same as above. 33.6 50.3 33,6 Pale-light-gray-greywacke. Faint-finely-laminated bedding. Bd at  $36.2^{h}$  -  $30^{\circ}$  to core axis Bd at 38.7! - 280 to core axis Bd at  $42.7' - 30^{\circ}$  to core axis Bd at  $47.7' - 33^{\circ}$  to core exis 8d at  $50.0' - 30^{\circ}$  to core axis Note: at 50.0' the bd. are broken up, giving a conclomerate look. The bd. are 1-2mm thick, interbedded sequences going from fine-coarse in park throughout the section. Less than 1% pyrite. 2 calcite veins, 3mm thick. Freq. is 1 per 5! From 34.0 to 34.6 - talc-chlorite schist - same as above. Sch. angle at 43.3' is 260 to core axis. Cob 20010 of 74 Of 40 200 (

roiet			NAL des			0				N-	<u> </u>	-83-6		
anton			SECTION			_			ě		<u>     4                               </u>	de <i>of</i>		
Type de Drill T	Forage	Ligne / <i>Line</i> St  LatLong  Elevation  Azimut(h)  Commence' le / <i>Started</i>	Piongée / Azimut(A)	Dip						Profon Total Par/E	deur Toto <i>De pth</i>	b/10_		
De	à	GEOLOGIE	1.5 m.	5.0 '	ECHANT	ILLON	/SAMP	LES			ANAL	YSES	<del></del>	
From	70	GEOLOGY		L	Nº	De/Fr.	0/TO	Long.	Au_	Zn			<b> </b>	╀
33.6	50.3	Upper contact with talc-chlorite schist 250 to co	ore		<del></del>	ļ							<b> </b>	Ļ
		axis at 33.6!/	<b>-</b> } ⋅		<del></del>	<u> </u>						_		-
50.3	53.6	Pale-green-talc-chlorite -schist												$\vdash$
		Same as above												Γ
		Chlorites line up at 25 <sup>0</sup> to core exis.												
		No pyrite.				<u> </u>						_	<u> </u>	_
53.6	56.0	LAMP Dyke? Dark gray in color. No evidence												-
7 - 1 - 1		of bedding. Very silicious. Minor amounts of			2919	58.5	62.3	3.8	Nil					Γ
		pyrite - 1%. Mineral composition -bolite, calcid	te,		2920									
		quartz. Very massive.											-	-
56.0	58.0	Pale-green-talc-chlorite-schist												
		Same as above.								-				-
58.0	84.9	Pale-gray-graywacke. From 58.0-59.6 sequence of	-		31656	62.3	68.0	5,7	Nil					
		finely laminated graywacke. Finer graywacke.			31657	68.0	73.0	5.0	Nil	}				

78.0

73.0

31658

11N 0.2

LONG LAC MINERAL EXPLORATION 199 JOURNAL des SONDAGES Nº LL-83-6 DIAMOND DRILL RECORD Project\_\_\_\_ Canton SECTION\_\_\_\_ Ligne/Line\_\_\_\_St.\_\_\_ Lot Rang/e/\_\_\_ Lat. \_\_\_\_\_ Long. \_\_\_\_ Profondeur / Depth Profondeur Totale Type de Forage Elevation \_\_\_\_\_ Plongée / Dip Total Depth\_\_\_\_ Drill Type\_ Azimut(h) Azimut(h) Par / By:\_\_\_\_ Contracteur Commence' le / Started\_\_\_\_\_Termine' le / Finished\_\_\_ Contractor\_ Date \_\_\_\_ ÉCHANTILLON /SAMPLES GÉOLOGIE ANALYSES Dе 1.5 m. 5.0 GEOLOGY De/Fr. 0/70 Long. From To At 59.3 Bd is 250 to core axis. No pyrite evident. From 59.6 to 81.6 composed of a more feldspathic rich graywacke. Coarse grained with some interbedded with units of finely laminated sequences. Upper contact at 59.6 is 20° to core axis. Throughout the entire section there is less than 1% pyrite. At 64' bd is 250 to core axis. At 70.8' bd is 24° to core axis. At 75.0' bd is 35° to core exis. Sch. at 75' was 25° to core axis. At 81.0' bd is  $33^{\circ}$  to core axis. Note: 81.0 bd have been broken up into a (a conglomerate-silty). At 82.8 bd is 28° to core axis from 81.5-84.9 gradates into finely laminated graywackes. The fine bd is 1-2mm thick, with coarse bd 1-3cm thick.

rojet <i>Project_</i>		ERAL EXPLORATION \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_	••	DAGES RECOR					No r			
ot ang <i>(e)</i> ype de rill T ontracte	Forage	Ligne/ <i>Line</i> St LatLong Elévation Azimut(h)	 Profond Plongés Azimut( Termin	eur / Dept : / Dip h) e' le / Fin	ished				Prof For	ille e e ! From iondeur a   Dep   By :	Totale		
De	ò	GÉOLOGIE	1.5	m. 5.0	ECHAN	TILLON	/SAMI	PLES		AN	ALYS	ES	
From	ro	GEOLOGY		<del></del>	Na	De/Fr.	a/70	Long.			<b> </b>	<b> </b>	ļ
58.9	84.9	From 73.6-73.8, chlorite-schist (note: same a	<u>.</u>	1						<del> </del>	<b> </b>	<b> </b>	
		above). Not completely altered.		1		<b></b>					!		
		From 75.7-76.8 - chlorite-schist. Not same as									<u> </u>		<u> </u>
		above. Very siliceous. Note: These two same		1		<u> </u>							<u> </u>
		sections, (73.6-73.8) & (75.7-76.8) are not con	npletely										
		altered to a talc-chlorite-schist because they											
		do not contain as much talc as the above section	ons.	Ī									
		Quartz-calcite veins.		I									
		At 63.2; 2 1-2 cm thick calcite veins, 30° to		1			<del> </del>						
		core axis.		1									
		At 71.2, 1 cm thick quartz vein, with white		†		1							
		calcite. 25° to core axis.		1						<del> </del>			
				†	<del> </del>	<del> </del>							
		At 72.6, series of (white calcite) quartz vein		ł	}	<del> </del>				<del> </del>			
		Calcite appears along the border of the quartz		+	}	<del> </del>		-		<del> </del>		<del>                                     </del>	
		vein. 1 cm thick to 3mm thick. No pyrite.				<del> </del>	<del> </del>			<del> </del>			<b> </b>
	J	At 74.3, 8mm guartz vein. No pyrite, 250 to co	ore	1	1	1	<u></u>	1	1	1	1 !	1 1	1

oiet		VERAL EXPLORATION \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				PD				N Feuill		LL-83-			
p t ng(e)_	Forage pe	Ligne/LineSt	rofondeur Ionge'e /	/ Depth Dip	L					Shee De / F Profor Total Par /	rom_ ndeur 1 Dep	Totale			
De	ò	GÉOLOGIE	1.5 m.	5.0'	ECHAN'						ANA	ALYS	E S		_
rom	To	GEOLOGY		<del> </del>	Na	De/Fr.	à/ <i>To</i>	Long.	Au	Zn				<del>- ,</del>	╀
58.9	84.9	There are some other 1-3mm thick quartz-calcite	_	ł	<u> </u>	<del>                                     </del>									ļ
		veinlets scattered throughout the complete section	_	1		<del> </del>									ļ
		Frequency of veins is 1 per 2 feet.			} 	<del> </del>									-
34.9	89.2	Pale-dark-gray graywacke.	_	†	31660	84.9	89.2	4.3	Nil				•		Ì
		From 84.9-87.5, the bedding in the graywacke is	_	ļ		ļ									1
		finely laminated in the order of 1-2mm thick. The	_	ļ		<u> </u>								<del></del>	$\downarrow$
		color of the bds. are light gray to black in some	_	1											1
		places, an example would be at 87.5 where there are							ļ						
		thinly laminated black-graphitic beds.		1											
		At 85.8, the bedding is 25° to core exis.													
		At 85.6 the sch. is 20° to core exis.		l											I
		At 85.5 is a thin talc-chloritic-schist unit.													
		Pyrite is found along slips of the sch. direction													
		and appears as a smear. Pyrite content 1%.		Ţ											ĺ
		87.5-89.2, light-gray-graywacke. Bedding at 88' wa	s .												Ī
		15° to core axis.		Ī											Ī
		At 89.0 the sch. was 550 to core axis. About 1%													J
	7	nvrite. Bd is finely laminated. This section is		I											

TO LONG LAC MINERAL EXPLORATION 198 JOURNAL des SONDAGES Nº LL-83-6 Projet DIAMOND DRILL RECORD Project\_\_\_ Canton SECTION\_\_\_\_ Sheet TWD\_ Ligne / Line \_\_\_\_\_St.\_\_\_\_ Rong(e)\_ Lat. \_\_\_\_\_ Long. \_\_\_\_ Profondeur / Depth Profondeur Totale Type de Forage Elévation \_\_\_\_\_ Plongée / Dip Total Depth\_\_\_\_ Drill Type\_\_ Azimut(h) \_\_\_\_\_ Azimut(h) Par / By:\_\_\_\_\_ Contracteur Commence' le / Started \_\_\_\_\_Termine' le / Finished \_\_\_ Contractor Date ..... ÉCHANTILLON /SAMPLES GÉOLOGIE De ANALYSES 1.5 m. | 5.0 ' GEOLOGY De/Fr. a/To From To Long. Au Zn 89.2 90.9 Buff Brown Chert 31661 89.2 90.9 1.7 Nil From 89,2-89.9 is a quartz vein composed of pink and white calcite. Some pyrite, chlorite and quartz. Upper contact is very irregular at 30° to core axis at 89.2. From 89.9-90.5 is buff brown chert with 1% pyrite. From 90.5-90.9 is quartz similar to the one from 89.2-89.9. 90.9 93.2 Light-buff-gray-brown - cherty-graywacke. 31662 90.9 93.2 2.3 Nil Remnants of bedding that are folded to a small degree. This section is very siliceous and is almost a chert. The bds are blackish in color and could represent graphitic bds. Bedding is on the average 1-3mm thick and at 91.5 the bd is 10-150 to core axis. No pyrite or calcite veins evident. 1% pyrite.

	_,	NERAL EXPLORATION \\	JOURNA DIAMONA				D					15				
nton P ng <i>(e)_</i> pe de		Ligne/ <i>Line</i> Ligne/ <i>Line</i> Ligne/Line	StP	rofondeur	Depth			•			De / / Profo	<i>From_</i> ondeur	Totale	à / 10_	31	
ill Ty ntracte ntracte	ur	ElevationAzimut(h)Commence' le / Starte	A	zimut(h)		hed			1		Par/	Ву:		· · · · · · · · · · · · · · · · · · ·		
De rom	à To	GÉOLOGIE <i>GEOLOGY</i>		1.5 m.	5.0'	ÉCHANT Nº	De/Fr.	/SAMP	LES Long.	Au	7n	AN	ALYS	ES		
73.2	113.4	Black-light-gray interbedded argill	ite			31663		98.2								Ţ
		Finely laminated, composed of alter	nating graphic,			31664	98.2	103.2	5.0	Ni]	149					Γ
		calcite rich and siliceous beds. T	he alternating			31665	) (	108.2								T
		beds range from 1mm up to 2cm thic	k. The black			31666		113.4								T
		beds are graphitic, the siliceous b		7 7												
		gray and calcite-bed rich. Bd comp		rtz												
		are lighter in color.											ļ			
		At 94.6, bd was 280 to core axis.														L
		At 97.2 bd was 250 to core axis.											<u> </u>			
		At 109.2 bd was 100 to core axis.														
		From 97.0-107.0 this section is com	posed of calcite													
		rich beds interbedded with the blac	k graphite.													L
		Bedding throughout the section.														_
		93.2-113.4 is undisturbed in places	while in some													
		places folding has occurred. (soft	sediment													
		deformation).		_  '.												
		From (93.2-97.0) and (107.0-113.4)	s not as calcite													
		rich but more graphitic rich beds.	Pyrite banding													

raint		•	RNAL des D <i>ND DR</i>							N	e LI	83-6		
anton WP Ot ong <i>(e)_</i> ype de rill Tj	Forage	Ligne/LineSt	SECTIO  Profondeus Plonge'e /	N			,			De / / Profo Tota: Par /	rom_ ndeur ` / Dep	Totale		
De	à	GÉOLOGIE		5.0'	ÉCHAN	TILLON	/SAMI	LES			AN	ALYS	ES	
From	To	GEOLOGY	1.5 m.	1 3.0	N۵	De/Fr.								
93.2	113.4	1% pyrite in overall section. Calcite veins a	ind											
		stringers are discordant throughout the complet		} [										
		section. The form of these calcite veins and		1										
		stringers have a very erratic shape. In some c	2999											
		they parallel the core axis, while in other cas		†		<del>                                     </del>		<del> </del>						
		they are 20-250 to core axis (i.e. 98.1 - calci		1				<del> </del>						
		veins and stringers 25° to core axis). Thickne		†		1								
		of the veins varies 2mm up to 4cm thick. Freq.		1 1										<b> </b>
		is 1 per foot.		†				<del> </del>						
·		At 108.9, two thin pyrite bands 1mm thick that	out	1 1		1		<del>                                     </del>						<u> </u>
		across folded bds, at 150 to core axis. Sch.		†				<b> </b>						
		throughout the entire section is 25° to core ax	<u>,,</u>											
		From 95.3-95.5 thin talc-chlorite schist unit.		†										
<del> </del>	<del></del>	From 97.5-98.0 thin talc-chlorite schist unit.					*							
		Note: Not as much talc-alteration minerals in		1										,
		these sections, compared to the uppermections	1 .	]							-			
		the hole.		1										
				1		1								

raint		NERAL EXPLORATION 195 JOURN	IAL des ID DRI			D				N	오	LL-83-	6		
anton			SECTIO	N					Ĭ	Feuil Shee	le e/	11	de <i>of</i>	31	
ot ang <i>(e).</i> ype de <i>Prill T</i>	Forage	Ligne/LineSt	Profondeur Plonge'e / Azimut(/)	l Depth Dip						De / / Profo <i>Tota</i> Par /	From_ Indeur I Dep By:	Totale	à / 10_		
De	ò	GÉOLOGIE	1.5-	5.0	ÉCHAN'					· · · · · ·	AN	ALY:	SES		_
From	To	GEOLOGY	1.5 m.	1 3.0	M۶	De/Fr.	à/To	Long.	Au	Zn					
113.4	126.8	Gray-buff-brown-chert similar to the one at 89.2-		"	31501	113.4	117.4	4.0	5			<u> </u>			_
		90.9. This section overall contains 1-2% finely		1 1	31502	117.4	122.4	5.0	_5						
		disseminated pyrite. Some chlorite occurs as			31503	122.4	126.8	4.4	5						
		specks throughout the unit 1mm grains and composes													
		15% of the unit. Some pyrite occurs in a more		7 1											
		coarse form, for example, 115.9 along slicken-side													
		with the pyrite being smeared.		]											1
		At 126.0 are a series of 1mm bands of chlorite													
		45° tp core exis.		<b>1</b>											
		At 119.3 good example of chlorite slip with													
		smeared pyrite.	_												
126.8	148.2	Black-light-gray-interbedded argillite.		†	31667	126.8	131.8	5.0	Nil	121					_
		From 126.8-128.8 composed of finely laminated			31668	7	136.8								
		argillite. The beds here are composed of black-		Ţ I	31669		141,8								
		graphite and siliceous rocks. 70% graphitic bd			31670		148.2								
		composed to 30% siliceous beds. The bedding is													
		undeformed from 126.8 to 128.0. From 128.0-128.8													_
7	7	this hadding has undergone some deformation but ha	. 7	T I									{	{	

nton	<del></del>	DIAMON								Feuil	le		de		
P		Ligne/LineSt					ا		1	She	e t From	12		31	
ng <i>(e).</i> pe de i// 7 ntract n <i>trac</i> :	Forage ypeeur	Lot. Long. F	Plongée / Azimut(//)	DIP						Tota Par/	ndeur 1 <i>I De pi</i>	th			
D e	o	GÉOLOGIE	1.5 m.	5.0	ECHANI						ANA	LYS	ES		
26 B	<i>To</i> 148.2	deformation. The beds are still preserved.	_	†	Ns	De/Fr.	0/10	Long.							-
	14012	At 127.1 the bd is 29° to core axis. The size of	7			<del> </del>	<u> </u>							<del></del>	
		the bd are 1-3mm thick.													
		At 128.8-130.1 composed of finely laminated argilli	te	+									-		
		with graphitic beds. Siliceous and calcite beds	_	-											_
		from 128.8-129.7. Zinc bands lmm thick at 129.0.						ļ							L
		From 129.2-129.4 - light-gray-calcite - feldspar-		1											L
		rich unit - coarse sediment.		ļ		<u> </u>									L
		From 129.4-130.1 more calcite rich with more graphi	tic	1											
		interbeds, thickness of some of these calcite rich													
		beds is 1-5mm thick. Bd is at 33 <sup>0</sup> to core axis		]											
		at 128.7. At 129.1 thin pyrite bed following bd													_
		direction.	_	†											
		From 130.1-132.6	╡ ·	1	L										
		Black-light-gray-argillite.	_								<u>.                                    </u>				_
		This section finely-laminated-beds of graphitic and		1		ľ			}						L

Skr.

ojet oject.			L des SONI Derill			Nº LL-83	
pe de /// 7	<b>C</b>	Ligne / <i>Line</i> S1Pr Lat,LongPr ElévationPl	longée / <i>Dip</i> zimut( <i>h</i> )			De / From Profondeur Total Total Depth_	ile '
De rom	à To	G É O L O G I E G E O L O G Y	1.5 m. 5.0 '	ECHANTILLON	SAMPLES . à/To Long.	ANAL'	Y S E S
26.8	148.2	From 130.4-131.3 are deformed beds while 131.3-132.6 the beds are undeformed. At 1el.7 bd is 30° to core axis.  From 132.6-134.6 black-light-gray-argillite. Same at the above and this section contains some calcite rich beds. The calcite rich beds range in size from 1-2cm thick. Bd 35° to core axis.					
		From 134.6-136.6 - black-light-gray-argillite section contains finely laminated graphitecand siliceous bd. This section does not contain any calcite-rich bedding like the above section.	ori.				
		From 136.6-144.3. This section contains black-light gray-argillite, with finely laminated-beds of graphitic and siliceous bd (chert?) There					

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anton		DIA	MOND			PECOR								6 de _of	
Type de Orill 7	Forage ype	Ligne / Line St. Long. Long. Long. Azimut(h) Commence ie / Started	Profe Plone	ondeur , ge'e / / ut(/y)	/ Depth Dip				, \ 		De / F Profo Total Par /	rom ndeur ` Dep By:	Totale /h	à / 10_	
De	ò	G É O L O G I E		1.5 m.	5.0	ECHAN	TILLON	/SAMP	LES			AN	LYS	E S	
From	To	GEOLOGY			L	Nº2	De/Fr.	a/10	Long.						
126.8	148.2	sediments do not appear beyond 144.3 for a					<b> </b>								
		Rock type changes after 144.3. Light-gray-	chert inter-	-			ļ								
		bedded sediment (graywacke).				<del></del>									
		The bedding in this section, 136.6-144,3 is		•											
	generally u	generally undisturbed by any deformation wi	th bd				<u> </u>								
		angle 20 <sup>0</sup> to core axis at 139.1. The thick	ness of												
		these coarse calcite rich sediments range for	rom 3-4in.												
		and are located from 140.2-140.5 and from 14	40.6-140.9												
		Finally, from 141-141.5 series of 4 inch ca.	cite												
		rich bds. Pyrite content less than 1%.													
		From 144.3-146.0, light-gray-pale-green cher	t inter-	-											
		bedded sediment (graywacke). These cherty t	eds are												
		1-3mm thick and are 25° to core axis. Note		•							<u>.                                    </u>				
		graphitic beds do not occur in this section.		*											<u></u>
<b>\</b>	1	Pyrite about 1%.	ļ		ļ		1			- 1				i I	l

Projet		ERAL EXPLORATION 199 JOURN		-			`		1	1s	LL-83-0	6		
Project_ Canton Twp Lot					RECOI				She	lle e1		de _ <i>of</i> .b / 10		
Rang/e/_	Forage rpe Bur	Lat. Long. Long. Azimut(h) Commence' le / Started	Plonge'e	Dip					Prof.	ondeur 1/ <i>De p</i> 1/ <i>By</i> :	Totale		1	
D e	ò	G É O L O G I E G E O L O G Y	1.5 m	5.0		TILLON		<del></del>	<del></del>	AN	ALYS	ES		<del></del>
From	70			┿	Nº	De/F/.	à/T0	Long.						<del> </del>
126.8	148.2	From 146.0-148.2, light-gray-pale-green-slightly			ļ		<del> </del>	<del>  -</del>		<del> </del>	-	}		-
		altered sediment (graywacke). No magnetic beds .		+				<del>  -</del>	<del> </del>	<del> </del>			· · · · · · · · · · · · · · · · · · ·	-
		There are some faint, finely laminated siliceous	beds	ł	ļ					<b> </b> -	<del> </del>			
		at the end of the section 148.0. This section,		+			<del> </del>		_	ļ	ļ			<del> </del>
		however, is calcite-rich from 146-147, that is a	_	1		<del>- </del>	<del> </del>	<del>  -</del>	<del></del>	 				<del> </del>
		coarser sediment. Note: Not alt. enough for		1	ļ			<del>  -</del>		ļ				
		telc-chlorite schist.	_			<del></del>				<u> </u>	<u> </u>			<del> </del>
		*Note: 136.6-144.3. These calcite rich bds or		†										
		sediments are just coarse grained sedimentary bed	s	1										
		in the light-gray-argillites. They are part of		Ţ										
		this interbedded sequence; in this depositional		1										
		environment. In other words, the beds represent	8	1										
		period in which different processes occurred in h	OW	1				<u>                                     </u>						
		they are laid down and in what form, i.e. fine-		1										
		coarse beds.		<b>'</b>										
	-			-			<del> </del>			<del> </del>				<u> </u>
		The siliceous bds interbedded with graphitic beds	_	1			ļ	<del>  -</del>	<del></del>	ļ				<del> </del>
1	- 1	are almost charty and and a dinetz and foldener	_	1	1	_	1			1	<u> </u>			

ojet oject_ nton (P  ng(e)_ pe de (// T)	Forage	SE   DOURNAL   DOURNAL	DR/ CTION fondeur/ nge'e / 4	LL R I Depth	ECOR				Feuil Shee De // Profo Total	le 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L-83-6	de _of a / 10	
De rom	`a To	GÉOLOGIE Geology	1.5 m.	5.0	ECHANT Nº	De/Fr.			Zn	ANA	ALYS	ES	
	152.6	Buff-brown-chert horizon(s).  1-2% pyrite throughout entire section. Small amounts			31504		152.6	 40	<u> </u>				
		of chlorite. Lesser amounts of chlorite in this section than the above section. Pyrite is finely diss. throughout the section.		_									
2.6	167	Pale-light-green-gray-graywacke. From 152.6-155.0 graywacke-slightly altered with sericite and talc-		ſ	31671		157.6	 					
		alteration. The bd. is undisturbed here.  At 153.9 the bd. angle was 20° to core exis. The	•		31672 31673		162.6 167.0						
		bd. is finely laminated with coarse to fine .  Some quartz veins 4-5mm thick are 20° to core axis		·									
		parallel bedding. Fine bd. 1-3mm thick while coarse	-	-									
		beds are up to 3cm thick. Less than 1% pyrite.  Note: There are not any graphitic beds.	•										
$\neg$		From 155.0-163.0, pale-light-green-gray-graywacke. T	he					 					

\_ \_ \_

rojet Project_			URNAL <i>MOND</i>								·		-83-6			_
anton  WP ot  ang(e)_ ype de  Prill Ty	Forage	Ligne/ <i>Line</i> St	Prof Plor Azir	ondeur nge'e / i	/ Depth Dip						De / / Profo Total Par /	From ndeur ` I Dep By:	17 Totale	b / 10_		_
De From	à To	G É O L O G I E <i>G E O L O G Y</i>		1.5 m.	5.0 '	ECHAN	De/Fr.					AN	LYS	E S		- ٦
152.6	167	There are some cherty beds that appear sphe	erical	<u>:</u>			00,77.	107.70	cong.							+
		due to the way the angle of the hole has int				<del></del>	<del>                                     </del>									1
		the beds (Note: at 155.7).	7,0000	•					1						<del></del>	1
																1
		At 158.3 there is an alt. section of grayway	ke to	•						·						
		light-pale-green with about 1% pyrite. Thic	kness	_												
		not available due to way hole intersects bec	is.													
		From 163.0-167 pale-light-green-grey - sligh	ntly				<u> </u>								ļ	
		alt. graywacke. Some evidence of sericite.	Alt.				ļ								1	1
		to a small degree. The bedding here is back													<b></b>	1
		normal. At 165' is 25° to core axis. The b	edding			····									ļ	
		is fine-coarse laminated sequences. At 164.	2 there	-			ļ								·	4
		is 1 inch pale-brown-chert-unit. The coarse					ļ									4
		bedding is from 1-3 inches thick. There is			-		<del> </del>									4
		coarse calcite-rich bd. at 165.7 that is 2 i	nches												<b></b>	4
		thick. Less than 1% pyrite.		•			<del> </del>								<del> </del>	4
							<del> </del>									4
					<b>.</b>											

Projet Project.			URNAL MOND				? <i>D</i>				Feuil	e LL	-83-6		 
.of Rang <i>(e)</i> _	Forage ype	Ligne/LineSt LatLong Elevation Azimut(h) Commence le/Started	Prof Pion Azin	iondeur ige'e / . nut(/)	l Depth Dip						Shee De / / Profo Total Par /	From From andeur T I Dept By:	「otale が <u></u>		
De	à	GÉOLOGIE		1.5 m.	T 5.0'	ÉCHAN	TILLON	/SAMP	LES			ANA	LYS	E S	 _
From	To	GEOLOGY			1	Nδ	De/Fr.	à/T0	Long.	Au	Zn				 _
167	180	Black-light-gray-argillite.				31674	167.0	172.0	5.0	Nil					 ا
		From 167 to 174 are alt. fine laminated to o	98780			31675	172.0	177.0	5.0	Nil	351				
		beds of graphite, siliceous and coarse calc	te beds.			31676	177.0	180.0	3.0	Nil	319				
		The graphitic and siliceous beds are finely		_											
		laminated 1-2mm thick. The coarse calcite b	eds are												
		located from 167.6 -167.9, from 169.2-170,	rom												1
		171.8-172.4. At 168.2 bedding was 26 <sup>0</sup> to co	re exis.	•											 1
		At 172.2 bedding was at 280 to core axis.	of												
		pyrite throughout this part of the section	was	•											1
		less than 1%. Minor calcite stringers that	are	_											1
		erratic in form.		•											
		From 174.0-180 - black-light-gray argillite	There												_[
		is more graphite in this section and less s	liceous	•	Ī										
		beds. In part coarse (calcite) beds have be	en	_											
		altered almost to schist. These are ident:	lfied												
		at 176.2-176.5 where total alt. to a talc-cl	olorite-	•											
	!	schist was observed , also some sericite													 _
		Note: No pyrite in this section. In the		_											
7		prophitic hade are conformable to hadding	Total		Ī										 1

roiet		IERAL EXPLORATION \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\										L-83-	6		
anton wp ot ang(e)	Forage	Ligne/ <i>Line</i> St		/ Depth						De / i Profo Tota	from_ ndeur l Dep	Totale			
ontract ontract	eur	Azimut(h)Commence' le / Started		e/ Fini	shed					Par/ Date	By:				
De From	à To	G É O L O G I E G E O L O G Y	1.5 m.	5.0'	ECHAN Nº	De/Fr.			Au	Zn	AN	ALYS	ES		$\overline{}$
180	195.8	Fine-green-talc-sericite-chlorite-schist unit.		·;	31677		185.0			120					
		This would be finely-coarse interbedded gray		]	31678	185.0	190.0	5.0	Nil	122				i	
		graywacke altered. Note: Bedding remnants are			31679	190.0	195.8	5,8	Nil	138					
		identified as sericite beds. There is 1-2% pyrite		1											
		in this section. There appears to be some sphele	ite				<u> </u>								
		bands at 182.3-183. From 182.3-183 thin graphitic		1						j					
		unit, also 189.4-190.1 thin graphitic unit and													
		from 193-193.4. Some erratic shaped quartz and		1					<u> </u>						
	·	calcite veinlets and stringers.													
		At 180.7 appears to be angular fragment. The		1										L	
		alteration in schist appears to be on a plane													
	,	parallel to core sxis. From 180-180.3 the schist													
		has stretched fragments which are probably coarse													<u></u>
		beds that have been altered and are now broken up		+										<del></del>	-
195.8	214.5	Buff-brown-chert. Composed of about 1% diss.			31505	195.8	200.1	4.1	5						
		pyrite. Alteration minerals, chlorite with pyrite	•		31506	200.1	205.1	5.0	Nil						<u> </u>
		for example, at 207.7 pyrite smeared along slicker			31507	205,1	210.1	5.0	Nil			ļ		J	
1	1	Bide with chlorite	_1	ł	31508	210.1	214.5	4.5	Nil						L

rojet <i>roject_</i>		NERAL EXPLORATION Y JOURNAL DIAMOND					į					83-6		<del> </del>	<del></del>
anton wp		SE	CTIO	N			1		ĺ	She	1e e/	20	de <i>of</i>	31	
of .	······································	Ligne/LineSt					,	<u>-</u>	<u> </u>		From_		.b/10_		
ong <i>(e)</i> _ 'ype de	Forgoe	LatLong Pro										Totale			
rill T	rpe	Elevation Plo Azimut(h) Azi		קוט	<del></del>	_	<del>                                     </del>					ofh			
ontracti ontract	or	Commence' le / StartedTer	mine' i	e / Fini:	shed					Date					
De	ò	GÉOLOGIE	1.5 m.	5:0	ECHAN	TILLON					AN	ALYS	ES		
From	To	GEOLOGY		1	Na	De/Fr.	à/To	Long.	Au	Zn					
214.5	228.4	Graphite interbedded with LAMP dykes. This section			31680	214.5	219.5	5.0	Nil	258					
		**is composed mostly of graphite (metalic). There		]	31681	219.5	224.5	5.0	Nil	347		<u> </u>			
		is some evidence of siliceous and calcite rich		1.7	31682	224.5	228.4	3.9	Nil	304					
		finely laminated beds. These are in the order of						•							
		1-3mm thick and are located from 219.5-221.5.	·	Ī	: :										
		They are 100 to core exis from 219.5-221.5. There													
		is a lamp dyke that runs from 217-223.4.		† ·	<del></del>										
		Note: From 219.5-221.5 this dyke is half composed			;										
		of graphite and half lamp. From 214.5-214.9,			•. •.									,	
		composed of lamp with alt. graywacke and calcite,													
		with bd. 30° to core axis.	'		• •										
		From 214.9-217 - graphite metalic with coarse		1	• •										
		pyrite - 3-4% - also some lamp parallel to core axis	Ì												_
		From 217-218.7-lamp dyke composed of calcite-													
		biotite-chlorite and about 1-3% pyrite.			•										
		From 223.4-225.7, metalic graphite . Faint bedding	•									<u> </u>		ļ	
		evident with blebs of pyrite approximately 2% pyrite	}			ļ							<b> </b>		
- 1		**Note: These lamp could be alt. sediments	ł			1				}	}	}	1 1		1

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Projet Project		JOURNA  DIAMONA				?D				نــا	10	LL-83-	6	 
Canton Twp Lot Rang(e) Type de Drill T Contract Contract	Forage Type leur	Ligne/LineSt	ofondeur onge'e / zimut(//)	l Depth Dip	<u></u>					De / . Profe Tota Par /	From ondeur ' I Dep	Totale		
De	o To	G É O L O G I E G E O L O G Y	1.5 m.	5.0		TILLON					AN	ALYS	ES	 r
From 214.5	228.4	From 225.7-226.9 - lamp dyke with alt. graywacke to	<del> </del>	╬	Nº	De/Fr.	0/10	Long.	Au	Zn		<b> </b>		 <del> </del>
214.5	220.4	a talc-chlorite-schist unit. Coarse pyrite 3-4%.	-				<del> </del>					<b></b>	<b></b>	 
<del> </del>		From 226.9-228.4-graphitic unit (metallic) composed	1	t	1 6			<del> </del>						
		of about 1-2% coarse pyrite blebs.			:						·			
228.4	230.1		-			<u> </u>								
220.4	250.1	Light-gray-coarse-grained-tuff (flow?). This unit is very massive, with no evidence of bedding. Some	-	†	31683	228.4	230.1	1.7	Nil					
		calcite-biotite-quartz-feldspar are some minerals		1	<del></del>	† ·						<del></del> -		 
		identified. There is 1% pyrite with the pyrite in		<b>†</b>										
		the form of blebs. Mineral lineament at 350 to	7	1										
		core axis.	]	1										
230.1	237.7	Buff brown-light-gray-chert unit. From 230.1-233.5		†	74604	070.4	075.4			<del></del>				
270.1	27,11	is light-gray chert with about 1% pyrite. There	-	Ì	31684		235.1							 
		are some lcm quartz veins carrying some pyrite.	7	†	31685	222.1	237.7	2.6	Nil					 
		From 233.5-234.9, there is a metalic graphitic unit	┥ ・		<del>  </del>	<del> </del>								
		with coarse pyrite that look like leafs - less than	-	<b>†</b>		<del></del>								
		1% pyrite. Note: There are two fine chert fragmen	7	1										
		Tem John		Ī		1								[

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roiet					SOND	•	20			1	N	ع <sub>LL</sub>	-83-6		
anton wp ot lang(e).		Ligne / LineStSt	SE(	CTIO!	N	<u>:</u>		,			Profo	rom	<b>Totale</b>	de _ <i>0f</i> b / <i>10</i>	.31
Prill Tontract	ype eur	Elévation	Azim	rut(A)		hed					Par/	Ву:	/h		
De	ò	GÉOLOGIE		1.5 m.	5.0	ECHANT					·	ANA	LYS	ES	
From	To	GEOLOGY		-		Νs	De/Fr.	à/To	Long.	Au	Zn				
230.1	237.7	From 234.9-237.7-buff brown-light gray chert	unit.		ll		ļ								
		There is some bedding 250 to core exis at 236.	.3.		lll										
		There is more pyrite in the section than the	above			•									
		one-2-3%. Also some chlorite and sericite al	t.	,											
		is evident in minor amounts as stringers. Also	,	•											
		feldspars are evident and some calcite. Note		_		·									
		Bedding is evident here at 236.3 only.				·									
237.7	242.3	Pale-green-unit. (tuff)?)) flow? (could be a	fine-			31686	237.7	242.3	4.6	Nil					
		grained graywacke). No bedding is evident wi	th												
		chlorite evident, with a lineament 30° to core	e axis.			•									
		This unit is very hard with minor quartz-calc	ite												
		stringers - less than 1% pyrite.				<u> </u>									
					}		ļ			002					
242.3	245.4	Metalic graphitic unit with faint remnants of			}	31687	242.3	245.4	3.1	Nil					
		bedding. There is coarse pyrite from 242.9-24		•			ļ		ļ	ļ					<del></del>
		5-6%, and from 244.0-244.6. Calcite and graph	ite		ļ ļ	_	ļ								
		make up matrix of these coarse section pyrite.													

ojet oject_ nton P ing(e)_ ne de	Forage ype	Ligne/LineSt	DRI CTION fondeur / nge'e / L	LL R L Depth	ECOR	_				Feuil Shee De / / Profo Total	le et from ndeur T Dept By:	23 b otale	de _of / 10	
D e	10	G É O L O G I E G E O L O G Y	1.5 m.	5.0	ECHANT						ANA	LYS	ES	
223	<i>To</i> 245.4	Some of the pyrite is spherical and appears like			Νs	De/Fr.	a/ 10	Long.	Au	Zn_				
		pyrite suns. Most of the pyrite is rounded to	+	- }										
		sub-angular in form. There is light brown mineral,		}										
		possibly sphalerite.		.	····								-	<b>-</b>
5.4 2	253.4	Dark-green-(alt. graywacke) ultramafic unit. This			31688	245.4	250.4	5.0	Nil	1800				
		unit contains chrome-mica alteration with quartz			31689	250.4	253.4	3.0	Nil	5400				
		2-3% which occurs as a stringer form. There is												
		also some sphalerite which has oxidized to a brown	Ī		<u> </u>									
		colour. Some quartz and calcite veins are erratic												
		stringers.	1	Ī										
	_	From 246-246.7-is small unit of metalic graphite												
		with coarse pyrite 5-6% and sphalerite in the matrix.												
		Upper contact is 40° to core axis at 245.4 and												
		lower contact at 253.4 was 15 <sup>0</sup> to core axis. Mineral	]											
		lineament of 30° to core axis is evident throughout	]											
1		the complete section.												

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ojet r <i>oject_</i> inton		DIAMOND								L	le - /	LL-83-6 24		31	
rp t ong <i>(e)</i> _	Forage ype	Ligne/LineSt    LatLongPr   Elévation	ofondeur onge'e / timut(/)) trmine' i	/Depth Dip e/Finis	shed					Profo Total Par/	From_ ndeur I Dep By:	Totale	à / 10		
De From	o To	G É O L O G I E G E O L O G Y	1.5 m.	5.0	ÉCHAN Nº	De/Fr.	/SAMP	LES			AN	ALYS	ES		_
253.4		Pale-gray-andesite-similar to unit described at 237.7-242.3. No bedding is evident. This unit	-		31690	1	256.0							,	<u> </u>
		contains less amounts of chlorite than the above one. Less than 1% pyrite. (possible tuff?) flow?													
56.0	267.7	Highly chloritized alt. graywacke. 80% of this	] .		31691	256.0	261.0	5.0	Nil						
	·	section is badly broken core. Possible fault			31692	261.0	267.7	6.7	Nil						
		gouge at 256.5, 2" wide. There is also a possible	╣.			-						ļ!			_
		fault gouge at 259 to 260.2. The core is broken	-			-									Ļ
		up too much to get fault direction. The fault	-{ ·	1	<u></u>							<del>  </del>	<del>  </del>	<sup> </sup>	╁
	<del></del>	gouge at 259-260.2 is composed of chloritic mud.  From 260.2-263.5 core is badly broken up. Alt.	-												$\dagger$
		graywacke by chloritization and gravitization.	† ·	†											T
		From 263.5-264.5 badly broken up core, possibly	] .	]											
		altered feldspar porphyry?	_											ļ	L
}		From 267.5-268 massive pyrite section composed of	-									<u> </u>			1
		7% pyrite.	_												Ļ

rojet roject.		JOUR DIAMO	NAL des ND DR							1	12 LI				
ype de	Forage	Ligne/LineS1 LatLong Elevation Azimut(h) Commence' le / Started	. Profondeu . Plongée / . Azimut(か) Termine	t/Depth Dip le/Fini	shed					De/ Profe Tota Par/	From ondeur of Dep By:	Totale	de of _b / 10		
De	ò	GÉOLOGIE	1.5 m	. T 5.0°	ECHAN	TILLON	/SAMF	LES			AN	ALYS	ES		
From	To	GEOLOGY		+	Nº2	De/Fr.	à/To	Long.	Au	Zn			ļ	<b></b>	<del> </del>
267.7	269.0	Broken up core.		1	31693	267.7	272.7	5.0	Nil			ļ	ļ	ļ	<del> </del>
		Dark brown chert unit.		1	ļ										<u> </u>
		This unit has 1-2% finely diss. pyrite.													<del> </del> -
269.0	275.7	Pale-gray-yellow-alt. graywacke to chert.		†	31694	272.7	275.7	5.0	Nil	<u> </u>			-		-
		Remnants of bedding that have been silicified a	]	1											
		267.7. Bedding was 50° to core exis. There is													
		chloritization. Pyrite appears in two forms:													
		(1) in small less than 1mm stringers parallel to	,	I											
		bedding (2) coarse pyrite following bedding.													
		Appears the more pyrite, the more chlorite.		Ţ											
		Approximately 1% pyrite in overall section.													
		Irregular lower contact at 40° to core axis at		I											
		271.8.													
		From 271.8-272.2, light gray andesite unit (tuf	7)	Ţ											
		no pyrite flow.		·											
		From 272.2-273.9-lapilli tuff with large 2-3mm													
		feldspar. No pyrite.							}						

NEW A

ojet DIAMOND unton				des SONDAGES DRILL RECORD								Nº LL-83-6					
P ng <i>(e)</i> pe de i// 7 ntroct	Forage ype eur	Ligne/ <i>Line</i> StPro LatLongPro ElevationPlo Azimut(h)Azi	fondeur nge'e / mut(//)	/ Depth Dip			,	<u>.</u> , '		She De/ Profo Tota Par/	et From ondeur of Dep By:	Totale	à / 10				
	or	Commence' le / StartedTer			ECHAN			1.50		Date		ALYS					
De rom	<i>To</i>	GEOLOGY	1.5 m,	5.0	Nº	De/Fr.			Au	Žn	AN	1 1 3	[ ]				
69.0	275.7	From 273.9-275.5-all graywacke silification to chert.															
		1% pyrite. Upper contact 35° to core axis.at 273.9.															
		From 275.5-275.7-lapilli tuff (light gray flow)		†					<del></del>								
		unit. Lower contact at 275.7 is 40° to core axis.		1									- <del></del> -				
		No pyrite.		† }							<del> </del>	<del> </del>					
		no pyrice.			<del></del>			<u></u>									
75.7	284.3	Pale-green-yellow-alt. graywacke to chert by	,	1	31695	275.7	280.7	5.0	Nil								
		silicification. Bedding is not evident. Sericite			31696	280.7	284.3	3.6	Nil								
		and calcite alteration has occurred with no		Ī													
		preferred orientation. Pyrite is finely diss. and		] [													
		follows the sericite and calcite alteration, and it		†					-1								
		is 1%		1	**************************************												
		From 280.5-284.3-very massive unit. Possible alt.	'	†	<del></del>			_									
		graywacke silicified with no pyrite and no evidence		1										<del></del>			
	-	of bedding.		†										<del></del>			
				]	<del></del>												
4.3	293.0	Dark gray-green-LAMP dyke composed of biotite,		†	31697	284.3	289.3	5.0	Nil	-							
		chlorite and calcite. The location of these		1	31698		293.0		Nil								
		minerals line up 370 to core axis. No pyrite is	'	1													

LONG LAC MINERAL EXPLORATION WE JOURNAL des SONDAGES Nº LL-83-6 DIAMOND DRILL RECORD Project\_\_\_ Canton SECTION\_\_\_\_ Sheet\_\_ De / From\_\_\_\_\_\_ \dagger / 10\_\_\_\_\_ Lot Rang(e)\_ Lat.\_\_\_\_Long.\_\_\_\_ Profondeur / Depth Profondeur Totale Type de Forage Drill Type\_\_\_ Elevation \_\_\_\_\_ Plongée / D/p Total Depth\_\_\_ Azimut(h) Azimut(h) Por / By :\_\_\_\_\_ Contracteur Commence' ie / Started\_\_\_\_\_Termine' le / Finished \_\_\_ Contractor Date \_\_\_\_ ÉCHANTILLON /SAMPLES ANALYSES GÉOLOGIE 5.0 1.5 m. GEOLOGY From To De/Fr. 0/To Long. Αu Zn 293.0 302.0 Pale-green-gray fine grained ash tuff? Very massive 31699 5.0 293.dl 298.0 Nil with no remnants of bedding. The unit in places is 31700 298.0 302.d 4.0 Nil very coarse-grained. In places it looks to be a LAMP. Calcite and chlorite make up part of the matrix. Less than 1% pyrite. 302.0 308.5 Pale-green-cherty lapilli tuff. 302.0 308.5 6.5 31801 Nil From 302.0-306.7-pale green lapilli tuff. Bedding is not observed. No pyrite. Minor calcite stringers. Appears tuff has been totally silicified. From 306.0-307.3-light-brown to that gradates into gray-black (graphitic?) chert unit. Upper contact is 25° to core axis. Lower contact 27° to core axis. This unit has less than 1% pyrite. Finely diss. bedding 15° to core axis. From 307.3-309.3, pale-green-cherty lapilli tuff, interbedded with chert beds up to 1-2cm thick and very irregular shaped beds. Chert composition is the same as the one in the above section. Less

Projet Project. Canton		JOURNAL DIAMOND	ECOR	7 <i>D</i>			Nº LL-8 Feuille 28		31			
Type de Drill 7	Forage	Ligne/Line       St.         Lat.       Long.       Pro         Elevation       Plo         Azimut(h)       Azi         Commence' le / Started       Ter	fondeur nge'e / . mut(/r) mine' l	/Depth Dip a/Finis	hed			], \	Sheet De / From Profondeur Tot Total Depth. Par / By: Date	à / 10_ tale		
De	ò	GEOLOGIE	1.5 m.	5.0	ECHAN	TILLON	/SAMP	LES	<del></del>	YSES	<del></del>	
From	<del> </del>	GEOLOGY			N.E.	De/Fr.	0/10	Long.	Au			
308.5	316.0	Pale-green-gray-ash tuff? This tuff appears to be			31802		313.5		Ni)		<del> </del>	<del> </del>
		silicified very hard. Less than 1% pyrite. Erratic		}	31803	313.5	316.0	2.5	- NI)	<del></del>		
		calcite stringers are found to be mostly in the				-						
		pale-green sections. Very massive and coarse-										<u> </u>
		grained. Alteration of sericite and chlorite on a		, ,					_  _		<u>  </u>	<b> </b> -
-		small scale.			<del></del>							
316.0	318.4	LAMP dyke. Dark green-gray minerals. Composition,			31804	316.0	318.4	2.4	Nil			
		biotite, chlorite. 30° to core axis mineral		[ [							,	
		lineation. No pyrite.										
318.4	322.0	Pale-green-gray-cherty fine-grained tuff flow. Very			31805	318,4	322.0	3.6	Nil			
		massive, with calcite alteration in the form of	Ì									
		stringers. Less than 1% pyrite. Pyrite cubes.										
322.1	322.9	Buff brown chert unit. Upper contact 25° to core			31806	322.0	322.9	.9	HIN H			
		exis. Lower contact 450 to core exis. Upper			***************************************							
		contact sharp and the lower contact irregular.										
	1	Rodding approach finals laminated 250 to core avis	]	<b>†</b>								

LONG LAC MINERAL EXPLORATION 175 JOURNAL des SONDAGES Nº LL-83-6 Projet DIAMOND DRILL RECORD Project\_\_ Feuille Canton SECTION\_ TWP\_ Ligne/Line\_\_\_\_S1.\_\_ Lot Rong/e/\_ Lat. Long. Profondeur / Depth Profondeur Totale Type de Forage Elevation \_\_\_\_\_ Plonge'e / Dip Total Depth\_\_\_ Drill Type\_\_\_ Azimut(h) \_\_\_\_\_ Azimut(h) Par / By /\_\_\_\_ Contracteur Commence' le / Started\_\_\_\_\_Termine' le / Finished\_\_\_ Contractor\_ GÉOLOGIE ÉCHANTILLON /SAMPLES Dе ANALYSES 1.5 m. From To GEOLOGY De/Fr. a/To Long. Au Zn 322.9 468.0 (Pale-green-gray (altered-tuff to) ultra-mafic unit 31807 322.9 327.9 5.0 candy-striped unit). This unit is altered by calcite. 31808 327.9 332.9 5.0 Nil 151 chlorite and silicification. There are within this 31809 332.9 337.9 5.0 Nil unit, graphite units, interbedded in the ultra-31810 337.9 342.9 5.0 Nil mafic. 342.9 347.9 5.0 Nil 31811 From 346.2-347.2-graphite interbedded with the altered tuff 31812 347.9 352.9 5.0 Nil Less than 1% pyrite. Metalic graphite from 346.7 31813 352.9 360.0 7.1 Nil to 347.0. From 348.1-348.3, graphite with calcite beds finely laminated. Upper contact 250 to core axis. Lower contact 35° to core axis. From 349.2-350.3, graphite and calcite rich beds 20° to core axis. Some chlorite alteration. The beds are finely laminated 1-2mm thick. Graphite beds at 351.0, 351.4, and 352.0. These are interbedded with alt. beds 25° to core axis. From 320.1-421-pale-green-gray-interbedded altered graywacke. Interbeds are graphitic beds. Coarsefine bedding altered.

B-alak			AL des SONDAGES D DRILL RECORD								Nº LL-83-6					
Canton Wpot Cana <i>le)</i>	Ligne/ <i>Line</i> St	SECTIO  Profondeur	ECTION				Į į				Feuille 30 de 31  Sheet 30 of 31  De / From 6 / 10  Profondeur Totale					
ontracteur Contracteur	E lévation	Plongée / Azimut(/)	Dip e / Finis	hed				Feuille Sheet De / From Profondeur 1 Total Depi Par / By: Date  A N A								
De à From To	G É O L O G I E G E O L O G Y	1.5 m.	5.0'	ECHANTILLON /SAMPLES Nº De/Fr. a/To Long.					A N /	NALYSES						
322.9 468.0	Note: 322.9-347.0 - approximate alt. graywacks more silicified. From 347.0 to 468 more alt. to ultramafic, talc-chlorite minerals. Also, after 256.0 this fault, rock type, takes a change.	to a														
	From 421-468.0 composed pale-gray to more dark section. Interbedded altered graywacke. This composed of more talc-chlorite.															
	From 430-434.0 - LAMP dyke fine-grained and dar in colour. Mineralogy composed of biotite, cal	lcite														
	end chlorite. Mineral lineation 35° to core ax  Lower contact 55° to core axis. Upper contact  to core axis. Total section less than 1% pyrit	30°														
	Altered bedding sections: At 372.0 - 50° to core exis.															
	At 377.7 - 40° to core axis.  At 382.0 - 35° to core axis.	·	†													

LONG LAC MINERAL EXPLORATION \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				JOURNAL des SONDAGES JAMOND DRILL RECORD SECTION										83-6 31		31	
Type de Forage  Drill Type  Contracteur  Contractor			Ligne / Line St. Long. Long. Long. Azimut(h) Commence' le / Started Long.	Pro Plo Azi	Profondeur / Depth Plongée / Dip Azimut(h) Termine' le / Finis			h lished					Feuille 31 de 31  De / From a / to  Profondeur Totale  For / By:  Date				
De From	ò		G É O L O G I E G E O L O G Y		1.5 m.	5.0 '	ECHAN1	De/Fr.	/SAM	LES			AN	ALYS	ES		
322.9	468.0	At 437.0 - 30	o to core exis.														
			,														

DRILL HOLE NUMBER

TT - 83 - 8

0 M	int S	ŧ. W.	M5J 2L7			OJECT	Thunderwood Project Type of Hole D.D. HXX R.D.H. C		PAG LOG DAT	E No GED BYG E	. Morr April		egg		
	С	ORE			480	END argilite breccie grewacke	MUDS muchstone at bacter SR graphs 9X saids some SR S SO S	5+10S							
À	CTURE	WIZATION	•		GOUG	grewacke gauge homfels blottle porphyry blottle homblende homblende porph quertz-blottle por	BR.T allatone CA calcitie IA saction SA soutcents CB carbonate ID taper SE serpenting CB carbonate ID taper SE serve CB carbonate ID taper SE	RECO	VERY _	99		s cone size			
١	E	3		ŀ	FROM	то	DESCRIPTION    VISUAL   SAMPLE   SAMPLE   SAMPLE   FROM   TO   TO   TO   TO   TO   TO   TO		7		_ ===	ASSAY			
+	$\vdash$	-	то	4				70 F	aet 🗌	% Cu	% Cu 0	% Mo.	Qz Au/	700	
.1		-	.	ł	0	7.0	Overburden						<b> </b>	<del> </del>	
		E	•	}	7	78.0					ļ		<del> </del>	├	
		E	•	ŀ		70.0	Fine-medium-grained-pale-grey siltstone. 7-12' oversized	0.5	<del> </del>				Nil	<del> </del>	
		E		ł		<del> </del>	casing core.   31919 63.7 6	58.5 4	4.8		<del> </del>		MII	<del> </del>	
-	H	-				<del> </del>	Bd at 24' - 50 to core axis.			۵ ص	Δ	C	DL.	17.	
	ſΙ	F	· 1	ı		<del> </del>	Bd at 33' - 25° to core exis.	<del></del>	-	Un bio	31	Cuppm 59	13	130	
	Н	F	-	ŀ	<del></del>	<del> </del>	Bd at 41' - 20° to core exis.			M:T	0.1	3.1	-13-	70	
	Н	F	-	ŀ		<del> </del>	Bd at 57' - 10° to core axis.							<del> </del>	
	H	F	.	ı			Bd at 72' - 65" to core axis.				<del></del>			1	
T	П	F		$\exists$			Bd at 77' - 70° to core axis.								
l		F	.	Ī			Weakly developed fracture cleavage at 60-70° to core axis								
	П	E					throughout section. Grev siltstone with argillite interbeds								
	11	E					unit from 7-34'. Grey gritty siltstone with occasional								
١.	Ш	Ŀ					mud chip fragments. Tops appear up hole from flame							<u> </u>	
	П	Ŀ	. !	L			and graded bed primary structures - 34-51'.	l_							
		ļ.	. [	-			From 51-68' grey siltstone interbedded with grey-brown mod	_						ļ	
l		F	.	ļ			stone - occasional - mud stone chip. Contorted bedding.								
	lİ	F		-			From 68-78' - grey-siltstone interbedding with argillite,							<del> </del> -	
L	Ш	上		4		<b> </b>	more argillite interbeds than above section 7-34'. Zinc								
		F	.	-  -		<del> </del>	and sphellerite increases toward lower contact. Lamp dyke								
		F	.	┟		<b> </b>	at 28.3 a ,2' lamp - both upper and lower contact 60° to	_						<del> </del>	
ļ	] ]	F		}		ļ	core axis.							├	
		F		-	<del></del>	·}	Lamp at 53.3, a .4' lamp - upper and lower contact sharp							<del> </del>	
-	<del>      </del>	_‡				<b> </b>	70° to core axis.						<del></del>	<del> </del>	
ļ		F		-		<b> </b>	Lamp at 61.0 - a .5' lamp diffuse contact - upper and							<del> </del>	
1		F		-		1	lower 60° to core axis. Frequency - quartz calcite	}-	<b></b> -∔				ļ		
		F		Ļ			veinlets . Milky white 3/5 ft. These veinlets are 65-90°	_						├	
1	1 1	<b>+</b>		1		L	to core axis. Occasional narrow stringers 15° to core axis throughout section. Minor amounts of pyrite lmm-2cm		l					<u> </u>	

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DRILL HOLE GEOLOGIC LOG ONG LAC MINERAL EXPLORATION LTD. 46 Front St. W. PAGE No. ... oronto, Ontario M5J 2L7 LOGGED BY PROJECT A.D.H. D P.D.H D DATE\_ TYPE OF HOLE D.D.H C HOLE LOCATION WITH RESPECT TO CLAIMS LOCATION \_\_ LEGEND TEST BEST TO SE COLLAR: LATITUDE . CORE ELEVATION: COLLAR\_\_\_\_ PURPOSE: \_ DATE: STARTED\_ VISUAL ESTIMATE SAMPLE FROM DESCRIPTION 8750 68.5 73 quartz calcite veinlets. Mineralization 7-68' less than 1% pyrite. 68-78' - minor amounts of pyrite - 1% pyrite along bedding plane. Lead 52 8751 73 0.3 and sphalerite is found in siliceous beds and cross-cutting 8752 78 0.2 52 4.0 10/10 veinlets. Sch. begins to occur at 72' - increase to about 1% at 76' and increases 2% at 77'. Subordinate lead with sphalerite. Graphitic unit with up to 1-4% pyrite along bedding planes 78.0 and in veinlets. Bedding is 60° to core exis at 81.0. Pyrite occurs as fibrous growth. Upper contact 60° to core axis. Lower contact along cleavage face 25 to core axis. 82.0 100.8 Ultramafic-siltstone-conglomerate-graphite. Nil 31920 82.0 87.0 5.0 From 82-84'-ultramafic conglomerate. Bedding 35" to core axis. 84.0' clastes are oval-shaped and mostly composed of sericite and talc. Sizes of clastes 1mm-4cm. Very thin 190 1mm sphalerite and ankerite stringers at 83.5 - less than 0.4 1% pyrite. 101 4.5 NI 96.6 From 84.0-100.8-pale-grey-green ultramafic siltstone? 5.0 N11 with graphite interbeds at 88-89.1 and 94.0-94.8. These graphite beds 3-4% pyrite along bd. planes. At 91.0 bd. 70° to core axis. At 100.0'-55-60" to core axis. Cleavage 65-90° to core axis throughout section. Quartzcalcite veins - 70-90° to core axis. Freq. - 1/2 ft. At 85.0 - .3' quartz vein, and 95.0, .2' quartz vein. Contact of these quartz-calcite veins is irregular. Approx. 70° to core exis.

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DRILL HOLE GEOLOGIC LOG LONG LAC MINERAL EXPLORATION LTD. 146 Front St. W. Toronto, Ontario M5J 2L7 PROJECT P.D.H [] DATE HOLE LOCATION WITH LOCATION \_ LEGEND COLLAR: LATITUDE ELEVATION: COLL AR RECOVERY ..... DATE: STARTED\_ SAMPLE ASSAY TO DESCRIPTION NUMBER FROM TO Feet % Mo. Oz Au/Ton 131.6 133.6 132.1 - possible sphalerite assoc. with pyrite. 132.0 - abundant pink-orange unknown mineral in irregular stringers in graphite - 1-2% pyrite throughout section bedde and along stringers (fibrous pyrite) - irregular contact of 70° to core exis. Quartz-monzonite (?) creamy white or sandstone dyke(??). 133.6 148.3 138.0 Nil 4.4 3.500 Medium to coarsely crystalline - porous - lots of small 31759 138 143 solution cavaties. 70% quartz eyes, 30% matrix feldspar-1483 5.3 31760 143 quartz-clay. 1-2% galena (cubic) sphalerite. 1% pyrite. Graphite rich sediment. Very finely laminated. 148.3 | 161.0 153.3 148.3 150.8 - bedding @ 60° to core exis. 31927 | 153.3 | 158.3 .002 158.7 - bedding 60° to core axis. Lower contact - 50° .002 to core exis. 31928 158.3 161.0 2.7 149.3-0.3' thick, light grey coarse schot. 75 ppm 3740 150.1 - irregular stringer pink-orange mineral assoc. with pyrite and galena crystals (also seam at 153.3). 1630 124 <u>43</u> 31759 1% pyrite occurring as fibrous grains and along bedding 2590 1450 0.4 planes. Cleavage - 60° to core exis throughout section 21 80 reassay reassau 0.2 10 1430 351 161.0 | 173.8 161-168.7 - pale to light green ultramafic altered sedi-161.0 166.0 5.0 Nil ments (talc-chlorite-schist) with small sections of graphite 166.0 171.0 5.0 Nil Nil rich sediment. 171.0 173.8 2.8 164 - bedding 65° to core axis. At 164'-0.3' graphite rich sediment - lower contact of 31928 reassou unit - 60° to core axis - less than 1% pyrite. Calcite 107 stringers at various angles to core axis 1 per 2 ft. 0.1 168.7-173.8 - massive coarse grained pale grey siltstone.

DRILL HOLE GEOLOGIC LOG LONG LAC MINERAL EXPLORATION LTD. PAGE No. \_\_\_5 146 Front St. W. Toronto, Ontario M5J 2L7 PROJECT TYPE OF HOLE D.D.H [] R.D.H. [] P.D.H D DATE \_ HOLE LOCATION WITH RESPECT TO CLAIMS LOCATION \_ LEGEND COLLAR: LATITUDE ELEVATION: COLLAR\_\_\_\_ DATE: STARTED\_ VISUAL ESTIMATE NOON SAMPLE ASSAY FROM TO % Cu % Cu O % Mo. | Oz AU/Ton Feel Fine pink to buff brown quartz monzonite (similar to above 173.8 | 178.0 31932 173.8 178.0 4.2 Nil unit of monzonite(?)) Less than 1% galena. Less than 1% Aupph Agppm Cuppm Nil Ool 8 pyrite - no sphalerite seen. Finer quartz eyes. Minor fine 31937 reaskay chlorite. The top of this section is darker in colour but with a sharp (550 to core exis) upper contact: lower contact graduational in colour and at 80° to core axis. Numerous hairline fractures in 2 directions to core exis. These are silica sealed, bleaching alteration perriferal to these fractures. Dark grey-green chlorite rich sediments. Very fine-grained 178.0 182.4 31933 | 178 nl 183 nl massive unit - euhedral pyrite crystals (1%). Orange intrusion mineral occurs in stringers. Cleavage - 750 to core 0.1 31933 axis - irregular calcite veinlets at low angle to core 180.8-181.8 - lamprophyre dyke. Lower contect - 70° to core exis. 2% euhedral fine pyrite. 182.4 192.0 Dark pale green highly chloritic talcy sediment. 31934 183.0 188.0 5.0 Nil Bedding apparent in places appears highly contorted - not 31935 188.0 192.0 4.0 Nil especially calcite rich. 189.6-190.3 - light grey feldspar porphyry unit (dyke?)
Upper contact - 450 to core axis (sharp) 0.1 31934 reasing 31 31935 reasing NI 1 0.1 287 259 Lower contact - 70° to core exis (irregular) Candy striped unit. Same as above unit but laminated with 192.0 197.0 5.0 192.0 203.0 secondary (?) calcite. 31937 197.0 203.0 Nil 197'-apparent bedding - 45° to core axis. 202'-bedding 40° to core axis.

DRILL HOLE GEOLOGIC LOG LONG LAC MINERAL EXPLORATION LTD. 146 Front St. W. Toronto, Ontario M5J 2L7 PROJECT R.D.H. 🖸 P.D.H D DATE TYPE OF HOLE D.D.H 🛚 HOLE LOCATION WITH RESPECT TO CLAIMS LOCATION .... LEGEND COLLAR: LATITUDE \_\_ ARGL BRXY GREY GOUG HORN PPBI PPB> PPHO PPQB DATE: STARTED\_ SAMPLE ASSAY DESCRIPTION FROM Feet %cu %cuo %Mo. Oz Au/Ton 192.0 192.6-193.7 - ultramafic siliceous clast breccia. Clasts ud to 2cm in size, and are highly fractured. 2% pyrite and minor sphalerite occurring in matrix and in fractures filled with calcite. Very little pyrite. 200.9-201.6 - section not calcite veined. 203.0 240.7 Ultramafic rich sediment with interbeds of pyrite rich Nil 31938 203.0 208.0 5.0 Nil siliceous clast breccia. 208.0 213.0 5.0 203-204.4 - fine-grained dark green siltstone - bedding -Nil 213.0 218.0 5.0 40° to core axis (203.5) - 1-2% pyrite in stringers Nil 218.0 | 223.0 | 5.0 bedding - lower contact 70° to core axis - finely laminated. Nil Pyrite along calcite stringer - 74° - may have argillaceous 223.0 228.0 5.0 Nil interbeds. 31943 228.0 233.0 5.0 Nil 204.4-206.9- breccia - 1% pyrite - mostly in the matrix Nil 31944 233.0 238.0 5.0 adjacent to clasts - also pyrite in calcite stringers. Nil 31945 | 238.0 | 240.1 | 2.1 Pyrite rich down to 206.6. Clasts of breccia are cherty, engular to sub-angular. 206.8 - clasts at 55° to core axis. 206,9-209,6 - fine grained dark green siltatone. reasisau Pyrite along bedding and in fractures. Bedding @ 40° to ca. Lower contact at 44° to core axis. Nil reasisai 0.1 20 101 209.6-214.7 - breccia. As most breccias in this hole, 0.1 51 it is matrix supported. Matrix - chlorite, calcite frag-3 47 31944 ments - greyish, white, eherty subangular (5mm-4cm) Nil 31945 pebbles - some sections predominately ultramafic clasts. Pyrite and calcite growths bordering chert clasts and also along fractures. 209.6-210.3 - little pyrite

PAILL HULE GEOLOGIC LOG

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DRILL HOLE GEOLOGIC LOG LONG LAC MINERAL EXPLORATION LTD. 146 Front St. W. Toronto, Ontario M5J 2L7 R.D.H. 🖸 PROJECT HOLE LOCATION WITH RESPECT TO CLAIMS LEGEND LOCATION \_\_\_\_ COLLAR: LATITUDE \_\_\_\_\_\_\_ DEPARTURE \_\_\_ ELEVATION: COLLAR\_\_\_\_ LENGTH: \_\_\_\_\_RECOVERY \_\_\_\_\_ PURPOSE: \_\_\_\_ DATE: STARTED \_\_ SAMPLE DESCRIPTION NMO OZ AU/Ton FROM TO FEET N.C. N.C.O 60° to core axis (upper and lower contact). Quartz-calcite 240.7 248.3 filled stringers cutting bedding at long angle to core axis (Hem. alt.) slight. Epidote alt. feldspar pheno. lath shaped to rounded, white crystals 1-4mm comprising 25-40% ground mass. 2% very fine diss. cubic pyrite associated with Hem. alt. Degree Hem. alt. increases as underlying contact with hornblende diorite. Lower contact at 248.3 50° to core axis. Magnetic at 241.0 and 242.0. Specularite coating cleavage faces -248.3 257.3 Grey-rose coloured medium-crystalline (pyrx?) (hornblende) 31948 250.8 257.3 6.5 syenite. Hem. alt. occurs throughout, especially prevalent upper two feet. Pyrite 2% fine diss. cubes. Frac-31948 tured cleavage 80° to core exis. Lower contact sharp 31949 reassay 75° to core exis at 257.3. Quartz calcite-hem. stringers 31950 reasony 0.1 at 15-30° to core axis. Spec. coating - cleavage faces 2-3% 257.3 261.8 Alt. sediment? Massive unit - dark - green- grey colour. Nil 31949 257.3 263.6 6.3 261.8 263.6 Ultramafic breccia - ultramafic fragments rounded subangular - 1% pyrite. Talc-chlorite - upper contact 40° to core axis, lower contact sharp 55° to core axis. Pyrx-hornblended-fine-medium crystalline syenite. Rose 263.6 268.6 31950 263.6 268.6 Nil coloured. Pheno. consists lath-needle shaped crystals 1-2% pyrite diss.-throughout section. Several quartzcalcite veinlets at 40° to core exis. Diffuse contect. No. spec. visible.

DRILL HOLE GEOLOGIC LOG LONG LAC MINERAL EXPLORATION LTD. 146 Front St. W. PAGE No. \_\_ Toronto, Ontario M5J 2L7 LOGGED BY ... R.O.H. [] P.D.H HOLE LOCATION WITH RESPECT TO CLAIMS LOCATION \_\_\_\_ LEGEND COLLAR: LATITUDE CORE LENGTH: \_\_\_\_\_RECOVERY DATE: STARTED \_\_\_ SAMPLE ASSAY VISUAL ESTIMATE FROM DESCRIPTION NUMBER FROM TO FEET % Cu % Cu O % Mo. Oz Au/Ton 31951 268.6 269.8 1.2 Nil Ultramafic conglomerate with minor amounts of sediment. 268.6 331.0 31952 279.2 284.2 5.0 Nil Majority of conglomerate is monomictic. Pebble size 1mm-31953 293.7 298.7 5.0 Nil 4cm subrounded. Cleavage 60-90° to core axis. 4 frac-Nil tures per foot (spacing). Minor sections chert and chlorite 31954 303.0 308.0 5.0 Nil pebble conglomerates. Calcite stringers and veinlets 1 per 308.0 313.0 5.0 Nil 2 foot interval. Scattered diss. pyrite - less than 1%. Magnetic intervals accompanying main matrix minerals -31951 reassey telc-chlorite. Syenite sections. reassay 279.5-280.1 - pyrx. rich. reagray At 323.8-325.2 - syenitized section rich in magnetite. reassau 0.1 31955 tenseau 0.1 Syenitized sediment - less than 1% pyrite. 331.0 337.0 Upper contact gradational. 8759322.5327.5 5 101 Zn and Pb values expressed in ppm. Au samples assayed using 1 A.T. per ton. Slightly magnetic sections 281.0-298.0; 302.0-310.0 of less than 1%. Narrow slightly above background values at 222.0; 233.0; 237.0; 238.0; 241.0; 248.0; 265.0; 324-325; 332-333.

CERTIFICATE OF ANALYSIS

GRAB SAMPLES



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#### Assaying - Consulting - Representation

Page 1 of 2

### Geochemical Analysis Certificate

0W-1577-RG1

Company

LAC MINERALS LTD. EXPL. DIV.

Date: OCT-18-90

Project:

TWD P.O.#Kthu

Copy 1. 20 ADELAIDE ST.E.SUITE 1100, TORONTO

Attn: CHRIS PEGG

We hereby certify the following Geochemical Analysis of 53 CORE/GRAB samples submitted OCT-16-90 by CHRIS PEGG.

Sample Number	Au ppb	Cu ppm	Pb ppm	Zn ppm	
2601	24				
2602	Ni I				
2603	Ni I				
2604	Nil				
2605	Ni l				
2606	17/10				
2607	Nil				
2608	Ni l				•
2609	Nil				
2610	Ni l				
2611	Ni l				
2612	Ni l		•		
2613	Ni I				
2614	Ni l				
2615	Ni l				
2616	'Nil/Nil				
2617	Ni l				
2618	Ni I				
2619	Ni I				
2620	Ni 1				
2621	Nil				
2622	Ni l				,
2623	· Nil				
2624	Nil				
2625	Ni l				
2626	Ni l				
2627	Ni l				
2628	Ni 1				•
2629	Ni l				
2630	Ni l				

Certified by

G. Lebel / Manager

P.O. Box 10, Swastika, Ontario POK 1T0

Telephone (705) 642-3244



A Division of Assayers Corporation Ltd.

### Assaying - Consulting - Representation

Page 2 of 2

### Geochemical Analysis Certificate

0W-1577-RG1

Company:

LAC MINERALS LTD. EXPL. DIV.

Date: OCT-18-90

Project:

TWD P.O.#Kthu

Copy 1. 20 ADELAIDE ST.E.SUITE 1100, TORONTO

Attn: CH

CHRIS PEGG

We hereby certify the following Geochemical Analysis of 53 CORE/GRAB samples submitted OCT-16-90 by CHRIS PEGG.

Samp I e	Au	Cu	Pb	Zn	
Number	ppb	ppm	ppm	ppm	
2631	Ni I /Ni I				
2632	Ni l				
2633	Ni l				
2634	Ni l				
2635	Ni l				
2636	Ni l				
2637	Ni l				
2638	Nil				
2919	Nil -				
<del>1 2920</del>	Ni1				
8701	Ni l				
8702	Ni l				
8703	Ni l				
8704	Nil				
8705	Ni l				
8706	Ni l				
8707	Ni 1/7				
8708	Ni l				
8709	Ni l				
8710	Ni l				
8711	Nifl				
8712	Ni l				
8759	7	101	<del></del>	56	

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Page 1 of 2

### Geochemical Analysis Certificate

0W-1583-RG1

Company

LAC MINERALS LTD. EXPL. DIV

Date: OCT-19-90

Project:

TWD P.O.#Kthu

Copy 1. 20 Adelaide St. E. Toronto

Attn:

**CHRIS PEGG** 

2. hold

We hereby certify the following Geochemical Analysis of 36 GRAB samples submitted OCT-17-90 by CHRIS PEGG.

Sample	Au	
Number	ppb	
2639	Nil	
2640	Ni I/Ni I	
2641	Ni l	
2642	Ni I	
2643	Nil	
2644	Ni l	
2645	Ni l	
2646	Ni l	
2647	Nil	
2648	Ni I	
2649	Ni l	
2650	Nil	
2651	14	
2652	17	
2653	Ni1/Ni1	
2654	Nil	
8713	Nil	
8714	Ni l	
8715	Nil	
8716	Nil	•
8717	Nil	
8718	10	
8719	14	
8720	48	
8721	14	
8722	10	
8723	Nil	
8724	14/17	
8725	Ni l	
8726	Nil	
		<i>A</i>

Certified by

G. Lebel / Manager

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Page 2 of 2

### Geochemical Analysis Certificate

0W-1583-RG1

Company:

LAC MINERALS LTD. EXPL. DIV

Date: OCT-19-90

Project:

TWD P.O.#Kthu

Copy 1. 20 Adelaide St. E. Toronto

Attn:

CHRIS PEGG

2. hold

We hereby certify the following Geochemical Analysis of 36 GRAB samples submitted OCT-17-90 by CHRIS PEGG.

Sample	Au		
Number	ppb		
8727	Nil		 
8728	Ni l		
8729	Ni l		
8730	Ni l		
8731	17		
8732	Ni I		 

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Established 1928

# Swastika Laboratories

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Page 1 of 2

### Geochemical Analysis Certificate

0W-1633-RG1

Company:

LAC MINERALS LTD. EXPL. DIV.

Date: OCT-29-90

Project:

TWD P.O.# Kthu

Copy 1. STE 1100,20 ADELAIDE ST.E.TORONTO,ONT.

Attn:

2. MSC 2T6

**CHRIS PEGG** 

3. FAX TO 416-947-1257

We hereby certify the following Geochemical Analysis of 37 GRAB samples submitted OCT-23-90 by CHRIS PEGG.

Samp l e	Au	Ag	Cu	Pb	Zn	
Number	pb	ppm	ppm	ppm	ppm	
2655	Vi I	0.2	56	54	121	
	<b>VI I</b>					
	1 i i					•
	<b>11 I</b>					•
2659	ii I					
8733	10					
8734 NII/I						
8735	7					
8736	li il					
8737	NI I					
8738	14					
8739	14					
8740	7					
8741	3					
8742	<b>11 1</b>					
8743	10					
8744	10					
8745	Ni 1					
8746	10					
8747	<b>!! !</b>			<b></b>		
8748 NI 1/1	vi 1					
	l is					
8760	VI 1					
8761	li i					
8762	7					
8763	Vil					
	VI 1					
8765	vi 1					
8766	vi 1					
8767	<u> </u>					



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Assaying - Consulting - Representation

Page 2 of 2

Geochemical Analysis Certificate

0W-1633-RGI

Company:

LAC MINERALS LTD. EXPL. DIV.

Date: OCT-29-90

Project:

THE PARKET LIVE CAL

Chpy 1. STE 1100,20 ADELAIDE ST.B.TORONTO,ONT.

l'inject:

TWD P.O.# Kthu

2. M5C 2T6

Attn:

CHRIS PEGG

3. FAX TO 416-947-1257

We hereby certify the following Geochemical Analysis of 37 GRAB samples submitted OCT-23-90 by CHRIS PEGG.

Sample Number	Au pph	Ag ppm	Cu ppm	Pb ppm	Zn ppm	
8768 8769 8770 8771 8772	21 3 NI1 10 3					
8773 8774	Ni 1 24/14		•		******	

Certified by Wyrigh It whoman

CERTIFICATE OF ANALYSIS
DIAMOND DRILL CORE SAMPLES



A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

### Geochemical Analysis Certificate

0W-1414-RG1

LAC MINERALS LTD. EXPL. DIV.

Date: SEP-25-90

Project:

**TWD** 

Copy 1. 1100-20 ADELAIDE ST. E. TORONTO, M5C 2T6

**CHRIS PEGG** Attn:

We hereby certify the following Geochemical Analysis of 18 SPLIT CORE samples submitted SEP-20-90 by CHRIS PEGG.

Sample Number	Au Au pph	check pph	Ag ppm	Ph ppm	Zn ppm
2901	Nil		0.1	6	175
2902	3		0.1	ĭ	121
2903	Nil		0.1	3	68
2904	Nil		0.4	676	806
2905	Ni I		0.9	2590	7560
2906	10		0.2	561	1560
2907	Ni l		0.2	147	697
2908	Ni l		0.1	779	3480
2909	10	10	0.4	486	1670
2910	Ni I		0.1	255	582
2911	Ni I		0.3	1760	193
2912	Nil		0.2	1400	141
2913	3		0.1	24	54
2914	Ni l		0.1	182	162
2915	Nil		0.1	30	113
2916	Ni I		0.2	65	181
2917	Nil		0.1	74	211
2918	Nil	Ni I	0.1	44	225

TS-80-Ex2

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G. Lebel / Manager

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 649-3244



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### Geochemical Analysis Certificate

0W-1415-RG1

Company:

LAC MINERALS LTD. EXPL. DIV.

Date: SEP-25-90

Project:

TWD

Copy 1. 1100-20 ADELAIDE ST.E. TORONTO M5C 2T6

Attn:

CHRIS PEGG

We hereby certify the following Geochemical Analysis of 9 DRILL CORE samples submitted SEP-20-90 by CHRIS PEGG.

Sample Number	Au ppb	Ag ppm	Cu ppm	Ph ppm	Zn ppm	
8750	Nil	0.2	63	61	103	
8751	Nil	0.3	52	272	1900	
8752	10/10	0.2	52	73	122	
8753	Ni l	0.3	53	1190	2230	
8754	Ni l	0.2	41	307	1450	
8755	Nil	0.4	76	215	553	
8756	Ni 1	0.3	69	256	615	
8757	Ni I	0.3	7	527	699	
8758	Nil	0.2	11	632	941	
						11-83-8

Certified by\_

G. Lebel / Manager

P.O. Box 10, Swastika, Ontario P0K 1T0

Tolophone (705) 642 3244



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#### Assaying - Consulting - Representation

Page 1 of 2

### Geochemical Analysis Certificate

0W-1416-RG1

Company:

LAC MINERALS LTD. EXPL. DIV.

Date: SEP-25-90

Project:

TWD

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Attn: CHRIS PEGG

We hereby certify the following Geochemical Analysis of 39 PULP samples submitted SEP-20-90 by CHRIS PEGG.

Sample Number	Au ppb	Ag ppm	Cu ppm	Ph ppm	Zn ppm	
31919	Ni I	0.1	59	13	78	
31920	3	0.3	77	828	4630	
31921	Ni I /Ni I	0.1	12	528	1450	
31922	7	0.1	6	68	410	
31923	Ni l	0.2	9	636	395	
31924	Nil	0.1	8	409	553	
31925	Ni I	0.6	37	3740	666	
31926	3	0.4	17	2180	372	
31927	3	0.2	10	1430	351	
31928	3/Ni 1	0.2	4	236	209	
31929	Nil	0.2	49	593	1070	
. 31930	Ni I	0.1	81	19	66	
31931	3	0.1	28	6	49	
31932	Ni I	0.1	8	16	27	
31933	Ni l	0.1	7	2	87	
31934	Ni I	0.1	40	31	96	
31935	Ni 1	0.1	24	287	259	
31936	Nil	0.2	53	286	663	
31937	Nil	0.1	26	3	92	
31938	3	0.2	73	1	241	
31939	10/10	0.2	84	16	209	
31940	Nil	0.1	73	24	85	
31941	Nil	0.1	66	25	151	
31942	Nil	0.1	71	20	101	
31943	Ni I	0.1	75	14	58	
31944	3	0.1	51	2	47	
31945	Nil	0.1	35	l	79	
31946	Nil	0.1	47	4	65	
31947	Nil	0.1	23	6	36	
31948	Ni l	0.1	21	8	17	LL-83-8

Certified by\_

G. Lebel / Manager

P.O. Box 10, Swastika, Ontario POK 1T0

Telephone (705) 642 3244



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#### Assaying - Consulting - Representation

Page 2 of 2

### Geochemical Analysis Certificate

0W-1416-RG1

LAC MINERALS LTD. EXPL. DIV.

Date: SEP-25-90

Project:

TWD

Copy 1. 1100-20 ADELAIDE ST.E. TORONTO, M5C 2T6

Attn:

**CHRIS PEGG** 

We hereby certify the following Geochemical Analysis of 39 PULP samples submitted SEP-20-90 by CHRIS PEGG.

Sample Number	Au pph	Ag ppm	Cu ppm	Ph ppm	Zn ppm	
31949	Nil	0.1	69	6	577	
31950	Nil	0.1	51	12	20	
31951	Nil	0.1	39	3	73	
31952	Ni I	0.1	53	2	55	
31953	Ni l	0.1	64	1	48	
31954	Ni I	0.1	58	9	39	
31955	38/27	0.1	98	23	46	
31759	Ni l	0.2	43	1630	124	
31760	Nil	0.4	49	2590	1450	LL-83-8

Certified by

G. Lebel / Manager

P () Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 649, 3944



A Division of Assayers Corporation Ltd.

#### Assaying - Consulting - Representation

Page 2 of 2

### Geochemical Analysis Certificate

0W-1577-RG1

Company:

LAC MINERALS LTD. EXPL. DIV.

Date: OCT-18-90

Project: Attn: TWD P.O.#Kthu CHRIS PEGG

Copy 1. 20 ADELAIDE ST.E.SUITE 1100, TORONTO

We hereby certify the following Geochemical Analysis of 53 CORE/GRAB samples submitted OCT-16-90 by CHRIS PEGG.

Sample	Au	Cu	Pb	Zn	
Number	ppb	ppm	ppm	ppm	<b>_</b>
2631	Ni 1 / Ni 1	,			
2632	Nil				
2633	Nil				
2634	Nil				
2635	Ni l				
2636	Ni I				
2637	Nil				
2638	Ni l				
2919	Ni l				LL-83-6
2920	Ni l				LL 05-6
8701	Nid Ni l				
8702	∕ <b>N</b> i l				
8703	Nil				
8704	Nil				
8705	Nil				
8706	Nil				
8707	Ni 1/7				
8708	Ni l				
8709	Ni l				
8710	Nil				
871/	NÜ				
8711 8712	Ni N				
8759	7	101	9	56	LL-83-8

Certified by\_

G. Lebel / Manager

P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705) 642-3244 FAX (705) 642-3300

# RECEIPTS FOR ANALYTICAL WORK GRAB SAMPLES





23440



#### SWASTIKA LABORATORIES

(A DIVISION OF ASSAYERS CORPORATION LIMITED)

PO. BOX 10.

SWASTIKA. TELEPHONE (705) 642-3244

CHINTING

POR 110

FAX (705) 642 3000

ANNEE

TRANSPURTEUR

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YENDU A

lac Minerals itd Suite 1100--20 Adelaide St. E. Toronto, Ontario MSC 2T6

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO D'EXEMPT. DE TA	ixis fêd.	NO. D'EXEMPT. DE YAXE PAGY	VOTRE NO DE COMMANDE	HOTHE NO DE COMMANDE	NET 30 DAYS	NO. DES VENTES
PED LICENCE	10.	PROV. UCENCE NO	The Engagesthu	CUR PAGRA RUC	1EAMS	BALER REIT
- 53 1 53	Cert.	says ZN • Handling 70M-1577-RGI Oct. 18,			\$ 8.75 11.50 3.00 8.75 3.00	\$ 463.75 11.50 159.00 315.00 108.00
	GET CON	W-1303-NOI (AUG 12)	HWOV.	40 J	Sub-total	1057.25 105.73

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS FACTURE/INVOICE **ESTABLISHED 1928** 

95152 -4207 core assayi charge.





23510



VENDUA

## SWASTIKA LABORATORIES

(A DIVISION OF ASSAYERS CORPORATION LIMITED)

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TELEPHONE: (705) 642-3244

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FAX (705) 842-8300

Lac Minerals Ltd. (Exploration Division) Suite 1100--20 Adelaide St. E.

Toronto. Ontario

MSC 216

TRANSPORTEUR

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

MEC STO			NOTHE HO DE COMMANDE	CONDITIONS	NEP OFB VENTE
NO BENEVEL OF LYST ON	many (scaled NO	TOO POOR SKE HE	OUR ORLEA NO	NET 30 DAYS TEMMS PHIX UNIT ATHE UNIT PHICE	A CONTRACTOR
quantity 37	Au assays	SORIPTION		\$ 8.75 15.00 3.00	323.75 15.00 111.00
37	Sample Handling Cert.#Ow-1633-R61 Oct. 2	9, 1990	S	un-total	449.7
•		SWASTIKA L	100	10%	44.98
		PER		TOTALess	\$ 404.7

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

\$1314<sup>22</sup>
Total grab sampling charge.

RECEIPTS FOR ANALYTICAL WORK
DIAMOND DRILL CORE



#### **SWASTIKA LABORATORIES**

IN DIVISION OF ASSAYERS CORPORATION HIMITED)

PO BOX 10.

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ONTABIO

POK 110

TELEPHONE: (705) 642-3244 FAX (705) 642-3300

26. Sept. 1980

TRANSPORTEUR

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Seabil V

Lac Minerals Ltd. (Exploration Division) 1100--20 Adelaide St. E. Toronto, Ontario MSC 2T6

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO DESEMPT DE TA	NO.	NO. D'EXEMPT DE FAXE PROY PROY. LICENCE NO	VOTRE NI). DE COMMANIE. YOUR ONDER NO.	HUTTE HO OF COMMANDS	NET 30 DAYS	CALCE IN P
	design of	200	sofietion	Apple to the control	NO AMERICAN	Carl Section
9 9 - 9	Ag ( Sam	essays Cu Pb Zn PPM Die Handling L.#OH-1415-RG1 Sept.	25, 1990		\$ 8.75 15.00 3.00	\$ 78.75 135.00 27.00
10 * 18 18 18	Samp Ag P	ssays le Handling b Zn .#OW-1414-RGI sept.	25, 1990	25/40	8.75 3.00 11.50	157.50 54.00 207.00 659.25
			PER	Downer	-10 TOTAL	65.93 \$_593.32

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS ESTABLISHED 1928



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IA INVISION OF ASSAYERS CORPORATION MITTH

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SWASTIKA

CHIMARIO **TYNK 110** 

FAX (70%) 849-9300

Sept. 1990

TRANSFORTEUP

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VERBUR A

Lac Minerals Ltd (Exploration Division) 1100--120 Melaide St. E. Toronto, Ontario

M5C 2T6

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

HO DEVEMPT DE TA	At 740	NO. D EXEMPT. DE TAVE PRIST	VOTER NO DE LANMANDE	COURT NO OF COMMANDE	NET 30 DAYS	TIET HER VEHILLS
FED LICENCE N	10. i	PROV. UCENCE NO.	I ISSU ONDER NO.	CUR CHOEN NO.	I EMMÖ	PALES BLG
	all to be the	A CONTRACTOR OF A	EMPROP :		ANALYSI YARA	PART MONTH
39	Au a	ssays on pulp			\$ 8.75	\$ 341.25
39	"Barrer	u 'P6"Zñ" '~~			15.00	585.00
- 0.,	Cert.	#OH-1416-RGI Sept.	25, 1990		15.00	
					Sub-total	926.25
			1(1)	<u>_</u>	-10 <b>x</b>	92.63
		······································			TOTAL	\$ 833.62

ANALYTICAL CHEMISTS . ASSAYERS . CONSULTANTS FACTURE/INVOICE **ESTABLISHED 1928** 



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#### SWASTIKA LABORATORIES

(A DIVISION OF ASSAYERS CORPORATION LIMITED)

PO. BOX 10,

SWASTIKA.

ONTARIO POK 1TO

TELEPHONE: (705) 642-3244

FAX (705) 642-3300

Suite 1100--20 Adelaide St. E. Toronto, Ontario

M5C 2T6

Lac Minerals Ltd

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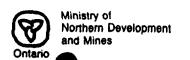
1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

NO. L'EXEMPT. DE TAXE FED FED. LICENCE NO.	D. NO. D'EXEMPT, DE TAXÉ PROV.  PROV. LICENCE NO.	TWD POR BADET NO.	NOTRE NO DE COMMANDE OUR ORDER NO.	CONDITIONS NET 30 DAYS TERMS	AEP. DES VENTEI SALES REP.
QUANTITE QUANTITY	]	DESCRIPTION		PRIX UNITAIRE UNIT PRICE	MONTANT : AMOUNT
1 0	Au assays Cu Ph ZN Sample Handling Cert.# <u>OW-1577-RGl</u> Oct. 19	2 ( 11, 3, 1990 - 9.	$\frac{25}{50} = 3$ $\frac{50}{50} = 3$	\$ 8.75 11.50 3.00	\$ 463.75 11.50 159.00
36 5	Au assays Sample Handling Cert.#OW-1583-RG1 Oct. 19	46 1, 1990 10%	468	8.75 3.00	315.00 108.00
		\$420	· <del>7</del>	Sub-total	1057.25
		11		10%	105.73
·				TOTAL	051.52

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS **ESTABLISHED 1928** 

· Total core sampling charge.

REPORT OF WORK RECEIPTS



Mining Act

Report of Work
(Expenditures, Subsection 77(19))

Instructions

- Please type or print.

Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.

- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

1414		(Expend			. , , , ,	_				·	
Type of Work	Performed		·F	v-0. 1:4	1(100)	ning Division	1.4.	Township or	Area	- Tun	
Recorded Hole	der	white	<del>3                                    </del>	PRIMIT	wie -	araer	Lane	1 1 1 1	Prospector's	Licence No.	
Address	tc P	lines	<u>-als</u>	_Lta	. • •				Felephage I	664	-
Ste Work Performs	((00,	20	ALA	elaide	St.	E.,	Toront	JNO 6	(416)	-367-	1031
L	AC	Mine	, ral	s Ltd	- 1						
Name and Ad		of Submission)	•				POX	(1AO	Date When	Work was Perform	
Chrt:	s PEC	<del>30,</del> P	<u>:0.B</u>	ox 59, C	hapu	+ Hu	ghes, D	MT	Day   Mo	7,90 78	Mo.   Yr.
Indicate no. c	was performed o of days performe	d on each cl	im(s): aim.	Mining Claim	No. of Days	dining Claim 955114		Mining Claim L955115	No. of Days	Mining Claim L955724	No. of Days
Mining Claim	O. 1 on reverse a No. of Days Mini		No. of Days		No. of Days A			Mining Claim	No. of Days	Mining Claim	No. of Days
-95512			2.1			-					
Mining Claim	No. of Days Mini	ing Claim	No. of Days	Mining Claim	No. of Days N	Aining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Instruction			-4 -1	Calculation of Ex	•	ays Credits		Total	Total Nun	nber of Mining Clai	ms Covered
holder's cho	credits may be pice. Enter numb	er of days cr	edits per	Total Expendit	tures			Days Credits	Dy triis At	eport of Work	
claim in th (below).	e expenditure	days credit	column	\$ 72	4炎	÷	15 =	6			
		7		If space is insu							
Prefix	g Claim Number	Expend Days Cr.	Prefix	ning Claim Number	Expend. Days Cr.	Prefix	dining Claim Number	Expend. Days Cr.		ining Claim Numbér	Expend. Days Cr.
L. 9	79429	31			·						
L. 9	55114	5									
L. 9	55115	5									
L. 9	55116	5									
L. 9	55124	5									
L. 9	55125	5									
L. 9	55126	5									
					•						
Total Number	of Days Performe	d	11	Total Number of Da	ays Claimed			Total Number of	Days to be	Claimed at a Futu	ire Date
	61			6	. [				0	•	
Certification	of Beneficial	Interest *S	ee Note	No. 2 on rever	se side						
of work were r	fy that, at the time ecorded in the curr t recorded holder.	rent recorded i	s performed holder's nam	d, the claims covere ne or held under a be	ed in this rep eneficial inter	port Date	+22/9	O Reco	orged Hold	or Agent (Signa	ture)
	Verifying Rep							,		( <u>(</u> )	<del></del>
during and/or	after its completio	on and the ani	imate know nexed repor	riedge of the facts a rt is true.	set forth in t	he Report o	Work annexed	hereto, having p	erformed the	e work or witnesse	d same
Name and Add	dress of Person C	ertifying	D O	, Bex 59,	. Ch	axit	Hughes	ONT	- 1	OK LAC	<b>)</b>
Chr	18 120	<u> </u>		Telephone	No.		ate A	LET	Comilled B	y (Signature)	
				(403)-	367	3662	Received Flams	413	राइमा	NICTX	
For Office	use Only	ı					1. (41.)			· U	
Total Days Cr. Recorded	Date Recorded		Mining	Recorder			30 <b>d</b> (	CT 22 AI	ካ 9 4	?	
							E	EUEI	/FN		
	Date Approved	as Recorded	Provinc	ial Manager, Minin	g Lands		ן ר		YLU		



Ministry of Northern Development and Mines

Date Approved as Recorded

Provincial Manager, Mining Lands



Report of Work

(Expenditures, Subsection 77(19))

#### Instructions

- Please type or print.

- Refer to Subsection 77(19), the Mining Act for assessment work

requirements and maximum credits allowed under this Subsection.

- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

L Lype of \	Nork Per	formed		<del></del>		Mi	ning Division		Township or	Area		
1,750	Ċ	irab S	amb	lina	Expendit	uve L	arder	Lake	Hé		- TWA	
Recorded	Holder	A C	M		Expendit	1				Prospector's		
Address										Telephone N		
Ste	110	20, 2	10	Adel	aide St.	E., "	Toront	DON	T. (	416)-3	67-103	31
Work Per	formed E	Mine	,									
Name an	d Addres	s of Author (o							Ĭ		Work was Perfo	ormed
Chr	îs .	PEGG	, Bo	× 59	. Chaput	Hughe	S, ONT	POK:	LAO.	TS 09	90 18	10 90
Indicate	no, of da	performed or ays performe	n Mining C d on each	laim(s):	Mining Claim L 955114	No. of Days N	ining Claim	No. of Days	Mining Claim 1 9 7 9 4 2 9		Mining Claim	No. 01 73,5
Mining Clai		on reverse s		, No. of Da	ys Mining Claim	No. of Days N			Mining Claim	11	Mining Claim	No. of Zais
_							-					
Mining Clai	m /	lo. of Days Mini	ng Claim	No. of Da	ys Mining Claim	No. of Days+N	lining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Davis
Instruc					Calculation of Ex	penditure Da	ys Credits		Total	Total Num	ber of Mining C	laims Covered
holder's	s choice.	dits may be . Enter numb expenditure	er of days	credits per	O C	tures	÷	15 =	Days Credits	by this Re	port of Work	
(below)		(List in nun	nerical se	auence)	. If space is insu	ifficient at	tach schen	lules with r	equired infor	mation		
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lotal Nur	nber of D	ays Performed	ີາ /		Total Number of Da	iys Claimed		1	lotal Number o	Days to be	Claimed at a Fu	iture Date
	<del> </del>		× 6			<u> </u>			<del></del>	<del>\</del>	<u> </u>	
					e No. 2 on rever		on Date		Reco	rded Holde	or Agent (Sign	atura)
of work v	vere récor				ame or held under a be			14/91	_	720	) -1 - ·	
		rifying Rep	ort of Wo	ork				· · · /- · · ·				
I hereby of during an	certify tha	at I have a per its completion	sonal and in	ntimate kno nnexed rep	wledge of the facts s	set forth in th	e Report of W	ork annexed	hereto, having p	erformed the	work or witness	ed same
Name and	d Address	s of Person Co	ertifying			<u> </u>	, (	, ,			2011 10	
CI	<u>sinc</u>	Per	99	Box		Lha		lughes	Onta		POK1A	<u>U.</u>
					705)-57		62 Date	ec 14	190.	Certified By	(Signature)	
	,							eived Stamp			100	
in Of	tice U	lse Only										•
rotal Da Cr. Recor		te Recorded		Minin	g Recorder							•
				!								



Date Approved as Recorded

Provincial Manager, Mining Lands

Report of Work

(Expenditures, Subsection 77(19))

#### Instructions

- Please type or print.
- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.
   Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Min	ing Act	(Expen	ditures,	Subsection 7	7(19))		and	Lands Branch.			
Type of Work P	4	Acces.		Ev.	$\mathbf{PL}$ . $\Pi$	lining Division	1 . /2	Township of		LTIN	
Recorded Holde	ore.	Hssayı	<del>\y</del>	CYPIN	1 Tute	arder	Lake		Prospector's	Ligence No.	<u> </u>
LA	<u> </u>	linera	<u>ls</u>	Lta,					T	-664	
Ste 11 Work Performen	00, 2	20 A	delai	de St.	E	torento	ON		Felephone I		031
LA	<del>\</del> C	Miner	als	Ltd.							
Name and Add	ress of Author	•	•	· ·					Date When From 09	Work was Perfo	
Chr	is Po	99 B	ox 59	Chapu	t Hug	hes, Or	IT PO	KIAO	Day I MB	90 78	10, 90 Mo. 1 Yr.
All the work was Indicate no. of	as performed	on Mining Cla	aim(s):	Mining Claim		Mining Claim L. 955116		Mining Claim 1. 955725		Mining Claim	No. of Days
*See Note No.	No. of Days	e side		L955115	35 et	Mining Claim	-5	Mining Claim	2511	Mining Claim	, No. of Days
										The state of the s	1.0.0.0.0.0.0
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Instructions Total days c	redits may b	oe distributed	at claim	Calculation of E	•	ays Credits		Total		nber of Mining Cl	aims Covered
holder's choice	ce. Enter nur	nber of days c e days credit	redits per	Total Expend	2644	÷	15 =	Days Credits		7	
Mining Claim				If space is ins				required infor			
Prefix	Claim Number	Expend. Days Cr.	Prefix Min	ning Claim Number	Expend. Days Cr.		ning Claim Number	Expend. Days Cr.	Prefix	ining Claim Number	Expend. Days Cr
1 4 9	7942	9 5									
L 9.	55114	1 15									
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Total Number o	f Days Perforr	ned		Total Number of D	ays Claimed			Total Number of	Days to be	Claimed at a Fu	iture Date
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Certification of	of Beneficia	al Interest *	See Note	No. 2 on reve	rse side			<u> </u>			
of work were re by the current	corded in the c recorded hold	urrent recorded ler.	holder's nan	d, the claims cover ne or held under a t	red in this re peneficial inte	port Date	+22	90 6	rded Holde	r or Agent (Sign	ature)
Certification \										1-00	
I hereby certify during and/or at	that I have a ther its comple	personal and in tion and the an	timate know nexed repor	ledge of the facts	set forth in	the Report of V	Vork annexed	hereto, having p	erformed the	e work or witness	ed same
Name and Addr	7		ኅ	> ^ N		- ,	<u></u>	1 1	1	^	
Cha	is P	EGG		P. D. B	e No	1 Dai	Chap	it Hug	hes	(Signature)	
POK	1A0			(705)-	-567-		oct ab	AMOUNT	LASE	Dag	
For Office	Use Onl	ly				Re	ceived Sail	INING D	।।।।ऽ।	ON OC	)
Total Days	Date Recorde		Mining	Recorder			90	DCT 22	AM 9	4?	
Cr. Recorded								dependency (i.e. on the f			
<b>)</b>	Date Approve	d as Recorded	Provinc	ial Manager, Minir	no Lands			RECE	IVE	)	



Ministry of Northern Development and Mines

Mining Act

Report of Work

(Expenditures, Subsection 77(19))

#### Instructions

- Please type or print.

- Refer to Subsection 77(19), the Mining Act for assessment work

requirements and maximum credits allowed under this Subsection

Technical Reports, maps and proof of expenditures in duplicate
should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

ype of V	Vork Performed	Assay	1~1	Expen	ditural	ning Division	Lake	Township or A Hea		TWD	
Recorded		ineral	こり。	<u> </u>	<u> </u>			110,	Prospector's		
Address	/1C / 1	meral	<u> </u>	100.		<del></del>		<del></del>	Telephone N	-664	
Ste	1100.	20 A	rdelai	ide St	- E.,	Toron	to, ont	r. /	H6)-:	367 - 18	3/
Work Per	formed By			ls Lt	-						
Name an	d Address of Aut	hor (of Submission	on)	13 ~ 1					Date When	Work was Perlo	rmed
Chr	is REG	G, Box	59,	Chaput	Hughe	S CN	T POK	1A0	Day Mo	90 18	10 9 D
Indicate	ork was perform	ned on Mining C	Claim(s):	Mining Claim	No. of Days M	1	No. of Days Min		No. of Days	Mining Claim	No. of Da.s
Mining Clair	te No. 1 on revi	erse side vs Mining Claim	No. of Days	s Mining Claim	No of Days M	ining Claim	No. of Days Min	ing Claim	No. of Days	Mining Claim	No. of Dava
Mining Class	m No. of Day	rs Mining Claim	No. of Days	s Mining Claim	No of Days M	ning Claim	No. of Days Min	ing Claim	No. of Days	Mining Claim	No. of Davis
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Instruc Total d	tions ays credits ma	v be distribute	d at claim	Calculation of E		ys Credits	0.	Total		ber of Mining Cla	aims Coverec :
holder's claim i	schoice. Enter r n the expendi	number of days	credits per	\$ 4	207	÷	15 = .	Q.8		1	
(below) Mining (		numerical se	equence)	If space is ins	sufficient at	tach sched	ules with reg	uired inform	nation		
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Total Nun	nber of Days Per	_		Total Number of D	Days Claimed		To	tal Number of	Days to be	Claimed at a Fu	ture Date
		2.8			<u>2.8</u>		i		<del>0</del> _		
				No. 2 on reve							
of work w		ne current recorde		d, the claims cove ne or held under a			014/9	O \ Recoi	rded Holder	or Agent (Signa	ature)
Certifica	tion Verifying	Report of Wo	ork							100	
I hereby of during an	ertify that I have d/or after its com	a personal and i	intimate know innexed repo	viedge of the facts	set forth in the	e Report of W	ork annexed here	eto, having pe	rformed the	work or witnesse	ed same
Name and	Address of Pers	son Certifying		<del></del>		<del></del>	<del></del>		4		-
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ar Of	fice Use O	niv	× 100	·	- · -	Rec	eived Stamp			W	)
rotal Da	ys   Date Recor		· Mining	Recorder							•
Cr. Recor											
	Date Appro	oved as Recorded	Provinc	rai Manager, Mini	ng Lanos						

TECHNICAL DATA STATEMENTS



837 (85/12)

#### Ministry of Northern Development and Mines

# Geophysical-Geological-Geochemical Technical Data Statement

T221 -		
File		

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

Type of Survey(s) Geochemical Expenditure - Grab Sampling.			
Claim Holder(s) LAC Minerals Ltd.  T-664.			MINING CLAIMS TRAVERSED List numerically
Survey CompanyAuthor of ReportAddress of AuthorCovering Dates of Survey Covering Dates of Line Covering Co	AC Min Chris P Box 59 Ch Irvey Sept	L 979429 (prefix) (number) L 955114 L 955115 L 955116 L 955124	
SPECIAL PROVIS CREDITS REQUE		Geophysical DAYS	L 955 125 L 955 126
ENTER 40 days (includes line cutting) for first survey.  ENTER 20 days for each additional survey using same grid.  —Electromagnetic ————————————————————————————————————			If space insufficient
AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)  MagnetometerElectromagneticRadiometric  (enter days per claim)			
DATE: Oct 20/90 SIGNATURE Author of Report of Agent			
Res. GeolQualifications			-
Previous Surveys File No. Type	Date	Claim Holder	
			TOTAL CLAIMS 7

### GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken9	79429, L955114, L955115,
L 955116 L 955124	L 955125 L 955126.
Total Number of Samples 123	ANALYTICAL METHODS
Type of Sample Grab - rock.  (Nature of Material) 5 /65	Values expressed in: per cent
Average Sample Weight 5 165	p. p. m. 🔀
Method of Collection hammering edge	p. p. b. 😾
off of outcrop or float.	Cu Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled N/A	Others Au in ppbs
Horizon Development N/A.	Field Analysis (tests)
Horizon Development 1/1	
Sample Depth N/A.	Extraction Method
Terrain	Analytical Method
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (tests)
((	Extraction Method
	Analytical Method
	Reagents Used
,	333,000
SAMPLE PREPARATION	Commercial Laboratory (tests)
(Includes drying, screening, crushing, ashing)	Name of Laboratory Swastika Labs
Mesh size of fraction used for analysis	Extraction Method aqua rega.
	Analytical Method FA-AA AA
	•
	Reagents Used
General	General
golds analysed using a	basemetals analyzed
1/2 assay ton fre-	using the atomic
assay method with	absorption procedure.
Alaman Alamanda	
C'SI (C)	
tinish (tor weighing).	



837 (85/12)

Ministry of Northern Development and Mines

# Geophysical-Geological-Geochemical Technical Data Statement

File		

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

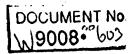
L	<del></del>		
Type of Survey(s)_	Geoche	nical Expenditure	- Gre Analyses.
Township or Area_	Hearst	TWP	· ·
Claim Holder(s)	LAC M	MINING CLAIMS TRAVERSED List numerically	
(-) <u></u>	T- 66	54	
Survey Company	LAC	Minerals Ltd	L. 955 115
Author of Report _	Chris	Pegg	(prefix) (number)
Address of Author	Box 59, C	haput Hughes, ONTIAC	
Covering Dates of S	urvey Sept	(linecutting to office)	2 4. 955125
T / IMile f Vince	. J	(linecutting to office)  8.2 miles	
Total Miles of Line	Cut	0.2 m(1E3	-
SPECIAL PROVI		DAYS per claim	
CREDITO REQUI		Geophysical	
ENTER 40 days (	includes	-Electromagnetic	
line cutting) for fi		-Magnetometer	
survey.		-Radiometric	
ENTER 20 days f	or each	-Other	
additional survey	using	Geological	
same grid.		Geochemical	
AIRBORNE CREDI	ITS (Special provi	sion credits do not apply to airborne surveys)	
		netic Radiometric	_
J	(enter	days per claim)	
DATE: Oct 20	/90 SIGN	ATURE:	
		Author of Report of Agent	
Res. Geol.	Quali	fications	_
Previous Surveys	_		
File No. Type	Date	Claim Holder	
		••••••	
		••••••	
			TOTAL CLAIMS 3
			TOTAL CLAIMS S

### GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken	33/13, 2.933/16,
1. 955125.	
Total Number of Samples 69  Type of Sample Sawn Split BQ Core (& pull (Nature of Material)	Values expressed in:  Description:  Description:
Average Sample Weight	p. p. m. 🔀 p. p. b. 🔀
Method of Collection from archivad	Cu Pb Zn Ni, Co, Ag Mo, As, (circle)
Soil Horizon Sampled	Others Au in ppbs.
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method
Terrain	Analytical Method
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (tests)
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)  Mesh size of fraction used for analysis	Commercial Laboratory (tests)  Name of Laboratory <u>Swashika Labs</u> Extraction Method <u>aqua vegia</u> Analytical Method <u>FA - AA</u>
	Reagents Used
	Reagents Oscu
golds analysed using a  Your assay ton fire assay method with an Atomic Absorption finish (for weighing).	hacenstals analyzed using the atomic absorption procedure



878 (89/06)





Report of Work 900 (Expenditures, Subsection 77(19)) **Mining Act** Type of Work Performed Mining Division Township or Area Grab Recorded Holder Address St. E. Toronto OM ((00 Miner Date When Work was Performed Name and Address of Author (of Submission) POK1A0 1090 P.O. Box 59 PEGG All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim.
\*See Note No. 1 on reverse side lo. of Days Mining Class No. of Days Mining Clair No. of Days 8.54955114 L955115 179429 1955724 No. of Days Mining Claim No. of Days Mining Claim No. of Days Mining Claim No. of Days Mining Claim No. of Days Mining Claim No. of Days 955125 14-2 L955126 lining Claim No. of Days Mining Claim 2. Mining Claim No. of Days Mining Claim No. of Days Mining Claim No. of Days Mining Claim No. of Days Mining Claim No. of Days Instructions Calculation of Expenditure Days Credits Total Number of Mining Claims Covered by this Report of Work Total Days Credits Total days credits may be distributed at claim Total Expenditures holder's choice. Enter number of days credits per claim in the expenditure days credit column Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information Mining Claim Mining Claim Mining Claim Mining Claim Expend. Expend. Expend. Expend. Prefix Number Days Cr. Prefix Number Days Cr. Prefix Number Days Cr. Prefix Number Days Cr. 5 5 VED 5 955 5 5 LAND Total Number of Days Claimed Total Number of Days to be Claimed at a Future Date Total Number of Days Performed Certification of Beneficial Interest \*See Note No. 2 on reverse side I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder. Recorded Holder or Agent (Signature) Certification Verifying Report of Work I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work of witnessed same during and/or after its completion and the annexed report is true. Name and Address of Person Certifying Bex 59 0. DNT Pok Lao Cartified By (Signature) For Office Use Only 90 DCT 22 AM 9 47 Total Days Cr. Recorded Mining Recorder 122/90 RECEIVED Date Approved as Recorded 61. ashusti,

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Instructions

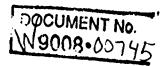
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Refer to Subsection 77(10), me mining Act for assessment work requirements and maximum credits allowed under this Subsection.

Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

	ing Act	(Expen	aitures, t	Subsection /							
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#### Instructions

- · Please type or print.
- Refer to Section 77, the Mining Act for assessment work requirements and maximum credits allowed per survey type.
- If number of mining claims traversed exceeds space on this form, attach a list.



1362 (89/06)

Report of Work

(Geophysical, Geological and Geochemical Surveys)

- Technical Reports and maps in duplicate should be submitted to

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Report of Work

Mining Act

(Expenditures, Subsection 77(19))

instructions

- Please type or print.
- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under the Subsection.
- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

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Ministry of Northern Development and Mines



#### Instructions

· Please type or print.

Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.
 Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

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Report of Work

(Expenditures, Subsection 77(19))

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Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines Mining Lands Section 4th Floor, 159 Cedar Street Sudbury, Ontario P3E 6A5

Telephone: (705) 670-7264 Fax: (705) 670-7262

Your File: W. 9008.00745 Our File: 2.13785

March 21, 1991

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

Dear Sir/Madam:

RE: Notice of Intent dated February 21, 1991 for Geochemical Survey on mining claims L. 955114 et al in Hearst Township.

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

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

Yours sincerely,

Ron. C. Gashinski,

Provincial Manager, Mining Lands

Mines & Minerals Division

LJ/jl Encl:

cc: Lac Minerals Ltd. TORONTO, Ontario

Resident Geologist Kirkland Lake, Ontario



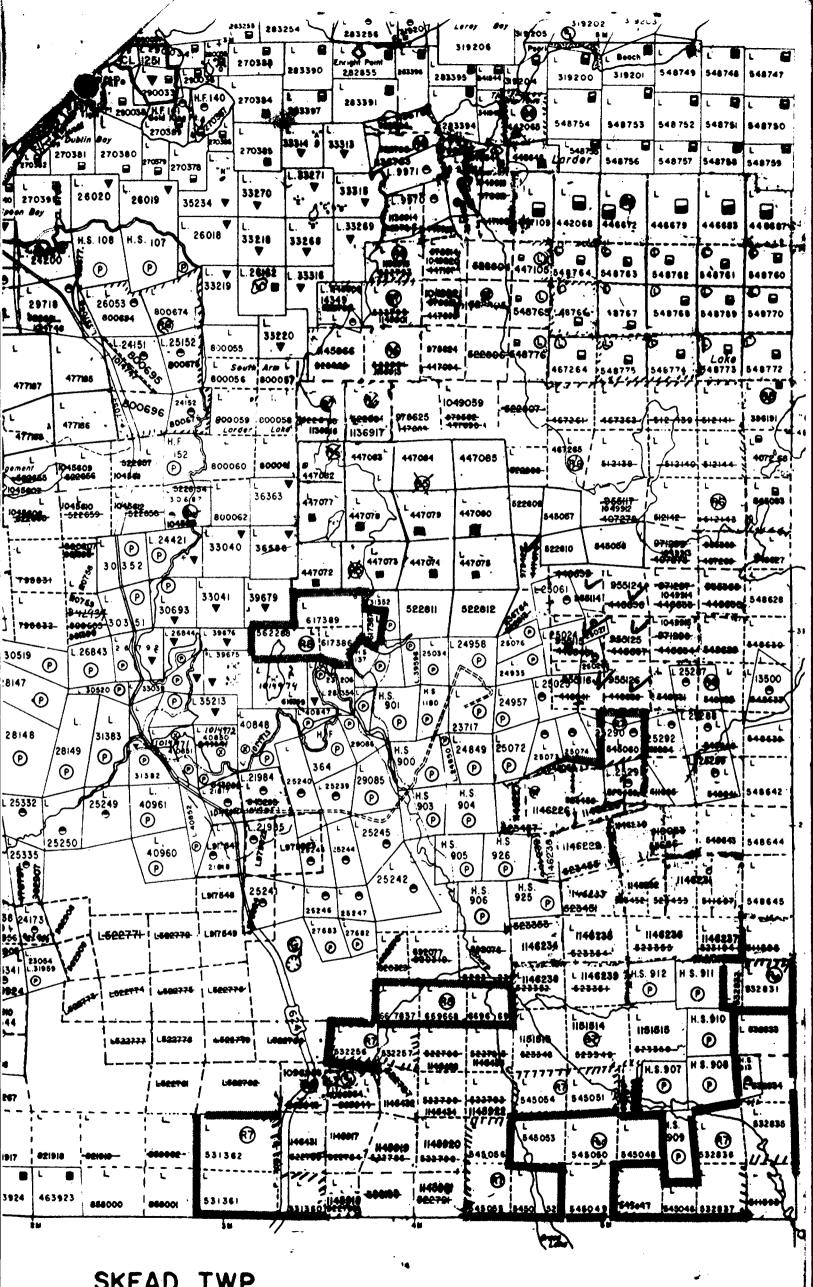
## Technical Assessment Work Credits

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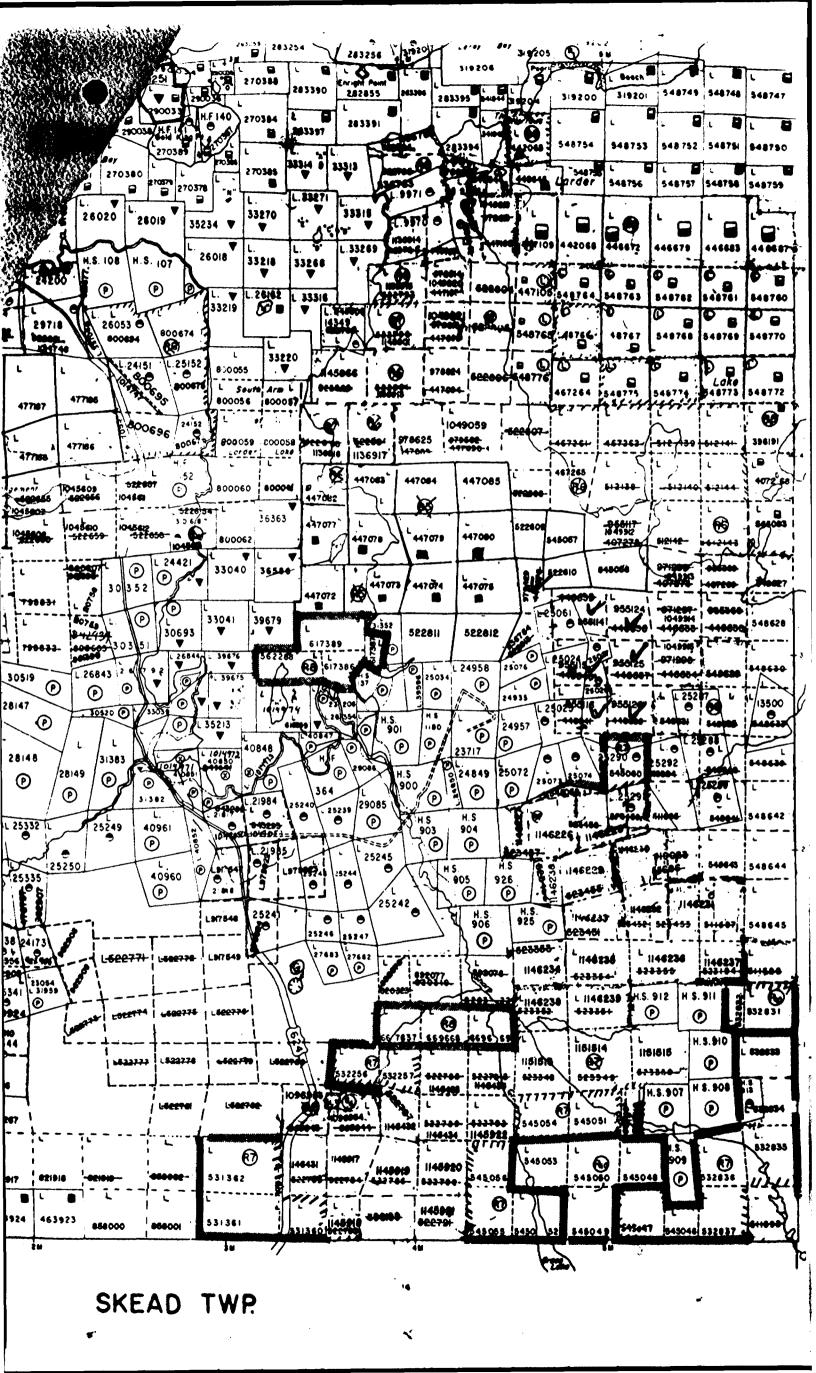
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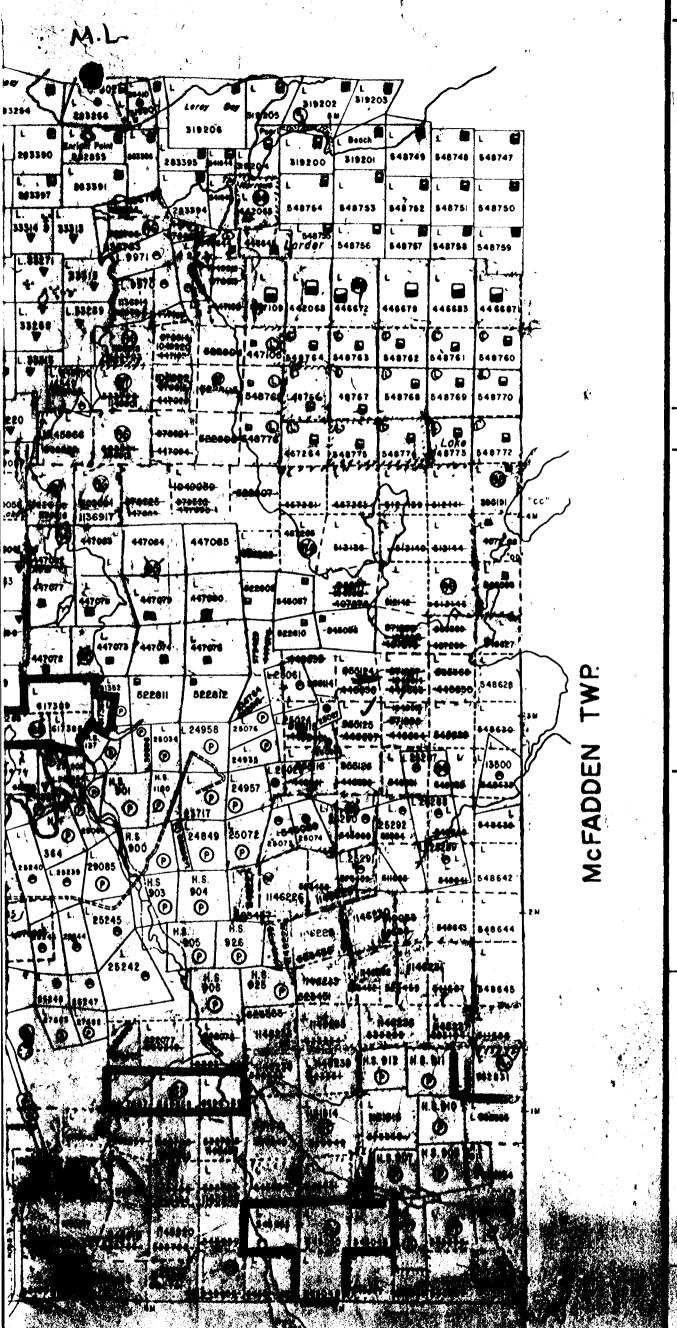
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Recorded Holder							
Lac Minerals Ltd.							
Township or Area							
Hearst Township							
Type of survey and number of Accessment days credit per claim	Mining Claims Assessed						
Geophysical							
Electromegnetic deys	L 955114-116 incl. 955124-126 incl.						
Megnetometer days	979429						
Rediometric deys							
Induced polarizationdeys							
Other days							
Section 77 (19) See "Mining Claims Assessed" column							
Geologicaldeys							
Geochemical 12.7 days							
Men days Airborne							
Special provision [C] Ground [3]							
Credits have been reduced because of partial coverage of claims.							
Credits have been reduced because of corrections to work dates and figures of applicant.	·						
	· ·						
Special credits under section 77 (16) for the following	mining claims						
	·						
No credits have been allowed for the following mining claims							
not sufficiently covered by the survey	Insufficient technical data filed						
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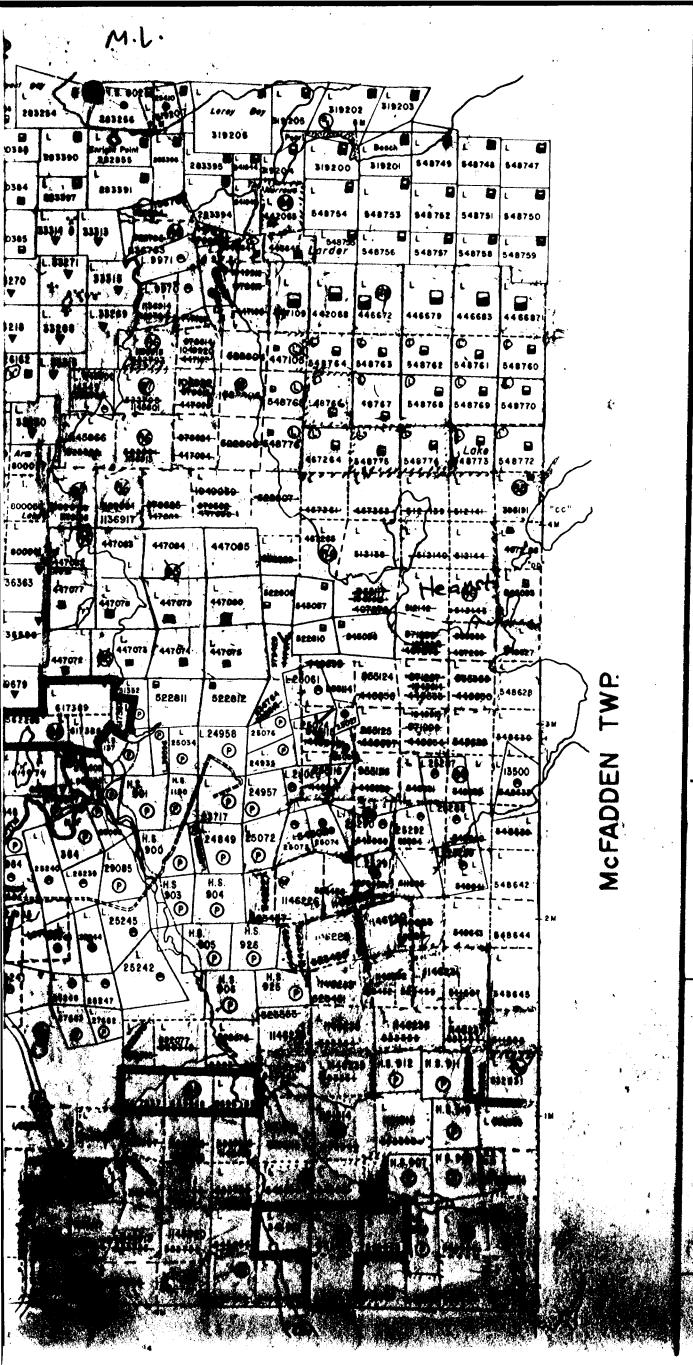
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M.N.R. ADMINIST KIRKLAN MINING DIVISI

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