

GM 40698

EXPLORATION PROGRAM REPORT ON CARPENTIER PROPERTY

Documents complémentaires

Additional Files



Licence



License

Cette première page a été ajoutée
au document et ne fait pas partie du
rapport tel que soumis par les auteurs.

Énergie et Ressources
naturelles

Québec 

ESSO MINERALS CANADA
CARPENTIER PROJECT

EXPLORATION PROGRAM REPORT
ON CARPENTIER PROPERTY
ABITIBI GREENSTONE BELT
NW QUEBEC

Ministère de l'Énergie et des Ressources
Gouvernement du Québec
Service de la Géoinformation

DATE 06 AVR. 1984

No G.M. 40698



Bernard Borduas

Nov. 15, 1983

Carpentier township

NTS 32C/6, 11

CONTENTS

	PAGE
INTRODUCTION	3
LOCATION AND ACCESS	3
PROPERTY INFORMATION	3
EXPLORATION WORK DONE BY ESSO (May 15 to Nov 15,1983)	7
GEOPHYSICAL SURVEYS	7-11
Magnetic survey	7
VLF EM survey	9
Horizontal EM survey	10
GEOCHEMICAL SURVEY	12
GEOLOGICAL MAPPING	14
RECOMMENDATIONS	19
APPENDIX	
List of analysed rock samples	
Certificates of analysis for the rock samples	
Certificates of analysis for the soil samples	
Maps :	
Magnetic survey	
VLF EM survey	
Horizontal EM survey (frequency 1777 HZ)	
Geochemical survey	
Geological map	

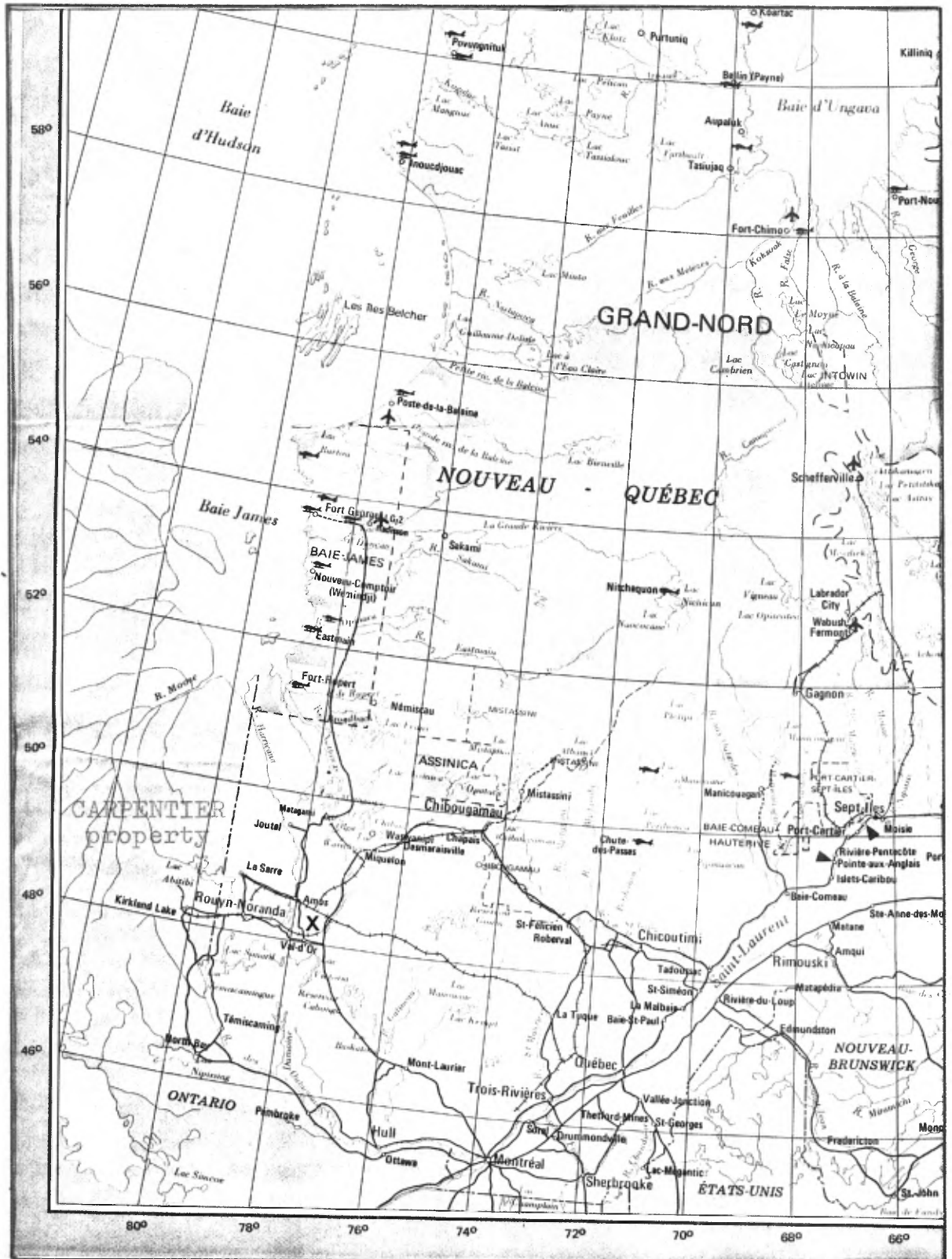


Fig. 1

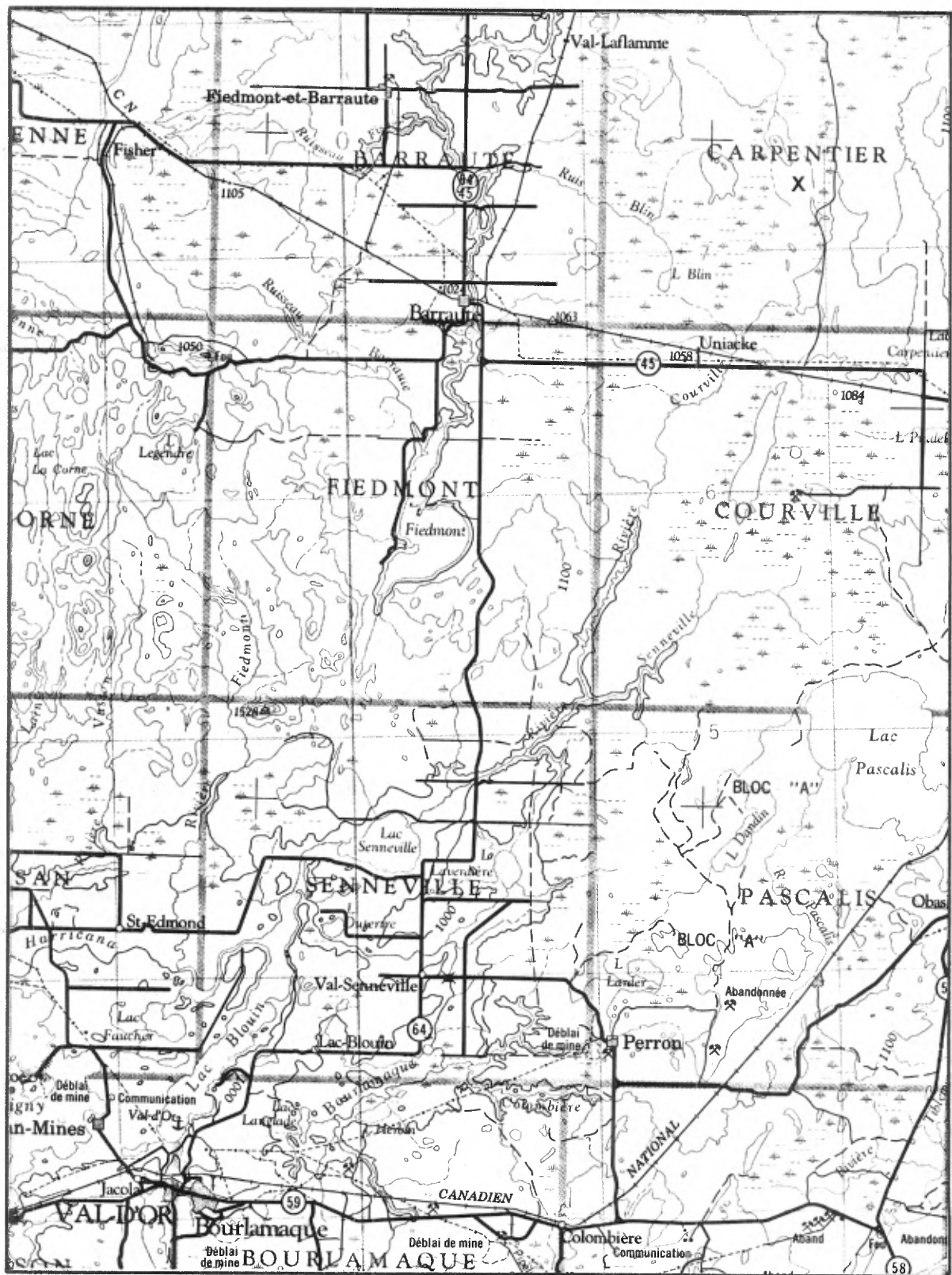


Fig. 2

Scale 1:250,000

Location map of Carpentier property (X).

INTRODUCTION

The Carpentier project is a Gold exploration program. Preliminary field work over the Carpentier property was carried out by ESSO MINERALS in May 1983 consisting of reconnaissance geology and an orientation geochemical traverse. In June 1983 an agreement was reached between ESSO MINERALS and REGAR EXPLORATIONS Ltée, the owner of the property, giving the right to ESSO MINERALS to earn a major interest on the property by carrying an extensive exploration program on the property within the next five years.

This report is a description of the exploration work and the different surveys done by ESSO on the Carpentier property up to Nov 15, 1983.

LOCATION AND ACCESS

The Carpentier property is located 85km northeast of the town of ValD'Or in the Abitibi region of the province of Quebec (fig.1 & 2 shows the property location at different scales). It is about equal distance between the small towns of Barraute and Senneterre. A north-south gravel road connecting to highway #45 between Senneterre and Barraute crosses the property about 7 km north of the highway. Distance is about 25 km from either Barraute or Senneterre. Motels and accommodations can be found in both towns.

PROPERTY INFORMATION

The Carpentier property is located roughly in the middle of west half of topographic map NTS 32C (1:250,000 scale) and the center of the property correspond to UTM coordinates (E:319000 ,N:5374000). It straddles northwest corner of NTS map 32C/6 and the southwest corner of NTS map 32C/11.

The Carpentier property as shown on claim map of fig.3 is

within lots 25 to 38 of range IV to VII of Carpentier township.

The property forms an irregular block of 53 claims covering 4100 acres or 1640 hectares. As of November 1983 the claim block was formed of 14 prospector licences and 12 development licences. Claim number, location and expiry dates of both types of licences are listed below.

Prospector licences

Licence #	claim	Range	Lot	expiry
413608	1	VI	35	April 1
	2	VI	34	April 2
413615	1	VI	33 south half	April 2
	2	VI	32 south half	April 2
414804	1	VI	39	April 1
	2	VI	38	April 1
414811	1	VI	37	April 1
	2	VI	36	April 1
414823	1	VII	38	March 31
	2	VII	37	March 31
414824	1	VII	35 north half	March 28
	2	VII	39	March 31
	3	VII	36 north half	March 29
414825	1	VII	31 north half	March 28
	2	VII	32 north half	March 28
	3	VII	33 north half	March 28
	4	VII	34 north half	March 28
414867	2	VI	27 north half	March 21
	3	VI	28 north half	March 21
	4	VI	29 north half	March 21
414868	1	V	30 north half	March 21
	2	V	31	March 21
	3	V	34 north half	March 21
414869	1	V	35 north half	March 22
	2	V	36 north half	March 22
414907	1	IV	29	March 21
	2	IV	28	March 21
414908	1	IV	27	March 21

Prospector licences (continued)

Licence #	claim	Range	Lot	expiry
414911	1	V	25	March 22
	2	V	26	March 22
414912	1	VI	25 south half	March 22

Development licences

Licence #	claim	Range	Lot	expiry
406946	1	IV	35	Dec 7
	2	IV	34	Dec 7
406947	3	IV	33	Dec 7
	4	IV	32	Dec 7
406948	1	IV	31	Dec 8
	2	IV	30	Dec 8
406949	2	V	30	Dec 8
406950	1	V	29	Dec 8
	2	V	28	Dec 8
406952	1	V	32	Dec 11
	2	V	31	Dec 11
408510-A	2	VI	30 south half	Jan 7
408511-A	1	VI	29 south half	Jan 7
	2	VI	28 south half	Jan 7
408512-A	1	VI	27 south half	Jan 8
	3	VI	26 south half	Jan 8
408514-A	1	IV	36	Jan 7
	2	V	34 south half	Jan 7
408515	1	V	33	Jan 7
	2	V	27	Jan 7
408547-A	1	V	35 south half	Jan 16
	2	V	36 south half	Jan 16

CARPENTIER TWP

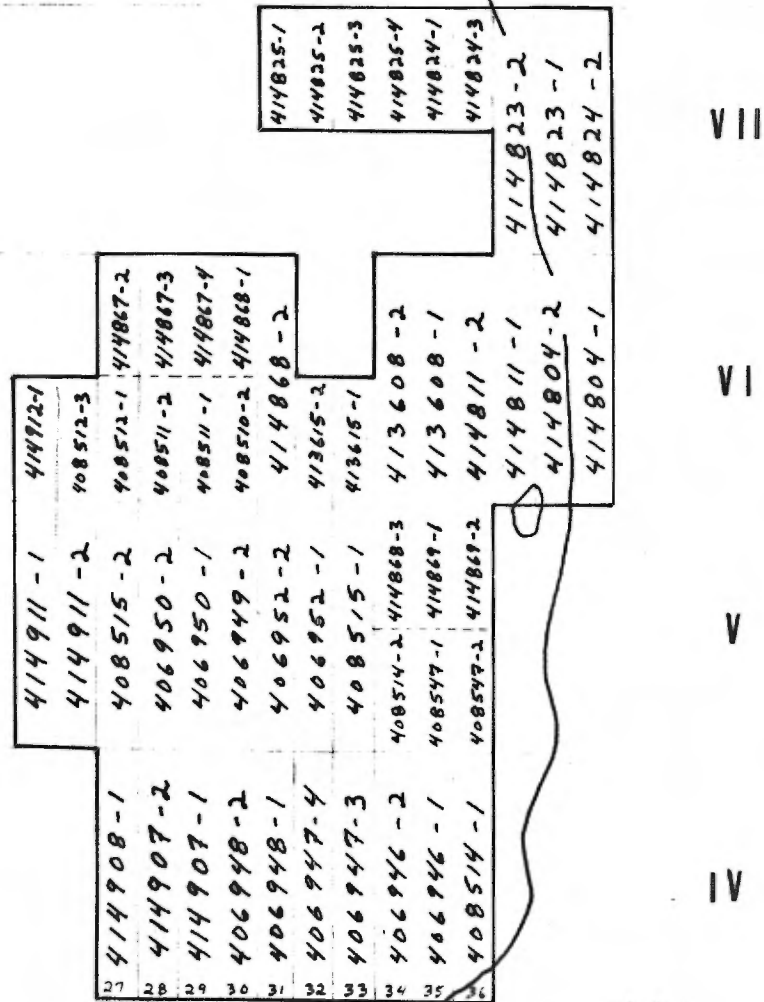


Fig. 3.

Scale 1:50,000

Claim map of Carpentier property as of Nov. 15, 1983.

EXPLORATION WORK DONE BY ESSO (period from May 15 to Nov 15,1983)

As previously mentioned in INTRODUCTION, prior to signing an option agreement with REGAR EXPLORATIONS Ltée, ESSO MINERALS conducted between the end of May and the 15th of June a reconnaissance geology and an orientation geochemical traverse over the Carpentier property to evaluate its Gold potential. An option agreement to explore the property was signed with REGAR EXPLORATIONS Ltée the 23rd of June 1983. Shortly after a contract was awarded for the cutting of two grids (A & B) on the block of claims.

From early July to the 20th of August 72 km. of lines were cut, chained and picketed on the property. Lines were spaced at one hundred (100) meters interval and picketed at every 25 meters. Figure 4 shows at 1:20,000 scale actual form and dimension of grid A and grid B covering the Carpentier property. Line cutting cost amounted to \$ 9,360.

From the beginning of August until the middle of October a geochemical survey, three geophysical surveys and geological mapping have been done over the two grids of the property. Description of these surveys follows.

GEOPHYSICAL SURVEYS

MAGNETIC SURVEY

During the month of August grid A and grid B of the Carpentier property were covered by a magnetic survey. Instrument used for this survey was a Geometrics Unimagtm proton magnetometer model G-846. This instrument measures the total intensity of earth magnetic field with an accuracy of ± 1 gamma.

Readings were taken at regular interval of 25 meters on the lines. All measurements were corrected for diurnal variations of earth's magnetic field. Data obtained from this survey were plotted on a map accompanying this report using a reference value of 58,600 γ gammas.

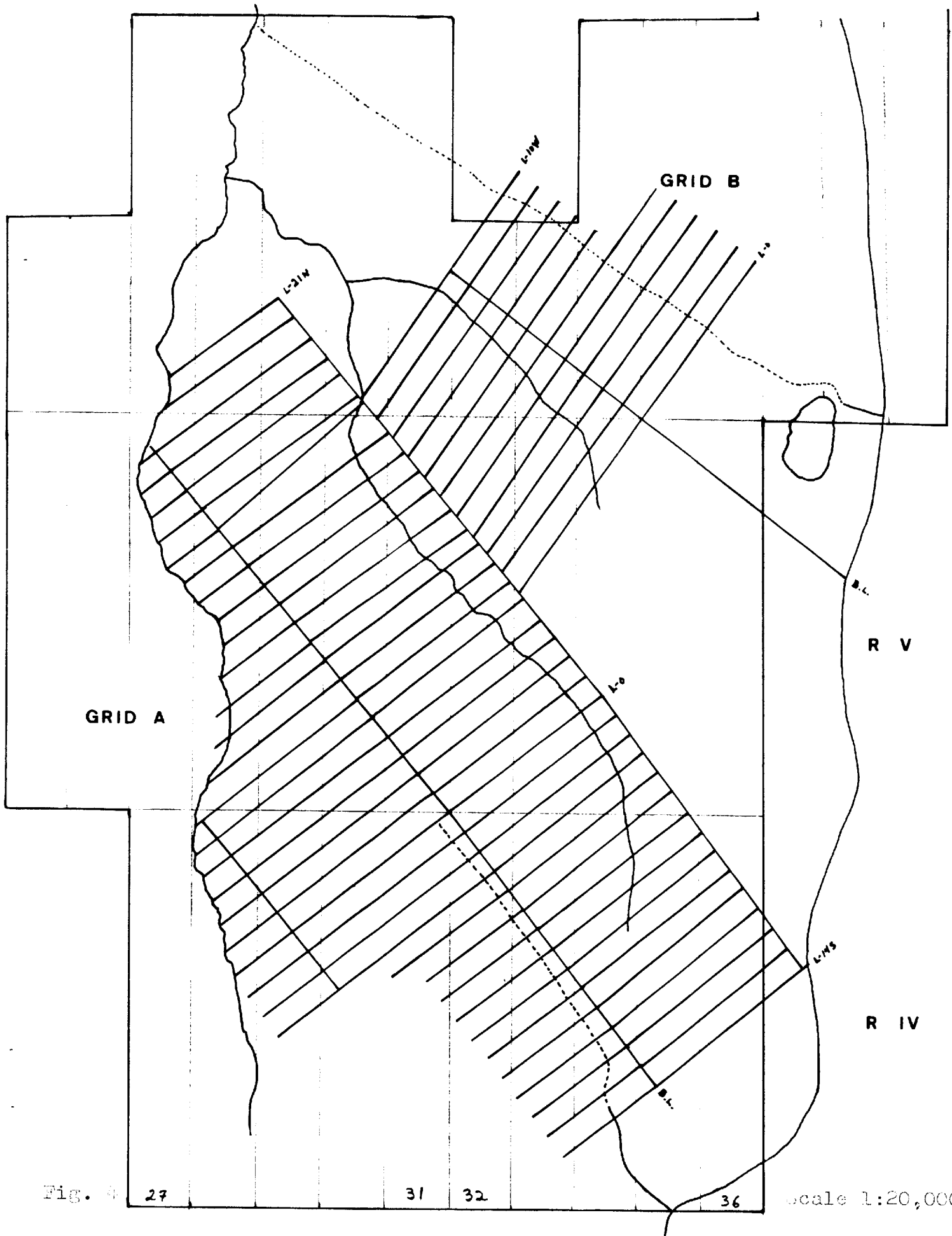


Fig. 4 27 31 32 36 scale 1:20,000

Location map of grid A and grid B on Carpentier property.

Discussion of results

The magnetic survey shows very well the presence of the metaperidotite intrusive north of the base line on grid B. On grid A very few readings exceed 300 gammas in intensity but a lithologic unit of porphyritic tuff with weak disseminated magnetite comes out quite well as a 200 gammas anomaly on that grid. Nevertheless the magnetic background of grid A is relatively flat and shows not much relief.

VLF SURVEY

During the month of August grid A and grid B of the Carpentier property were covered by a VLF survey. Instrument used for this survey was a Geonics EM-16 VLF-EM receiver. This instrument gives a measurement of the vertical components, in phase (real) and out of phase (quadrature) of a secondary electromagnetic field induced in the ground by a remote transmitting station. Those in phase and out of phase components are measured as a percentage of the primary field generated by the transmitting station. The accuracy of the instrument is $\pm 1\%$ in phase and out of phase. Transmitting station used for this survey was NAA located in Cutler, Maine and operating at a frequency of 17.8 KHz.

Readings were taken at regular interval of 25 meters along the lines beside line pickets with instrument pointing northeastward in a direction orthogonal to the direction of the transmitting station. Data obtained from this survey were plotted on a map accompanying this report in the appendix.

Discussion of results

The VLF survey brought out several weakly conductive zones especially on grid A which are believed to be faults or shear zones. Those interpreted structural features have been recognised during the geological mapping and the VLF survey was aimed at giving us a tool to track the faults within the grids.

HORIZONTAL ELECTROMAGNETIC SURVEY

During the month of September grid B and northeast half of grid A were covered by an H.E.M (horizontal electromagnetic) survey. Instrument used for this survey was an Apex Parametrics MaxMin II unit. This instrument measures the in phase (real) and out of phase (quadrature) components of the secondary electromagnetic field induced in the ground by a nearby transmitter. The two components are measured as a percentage of the primary field generated by the transmitter of the unit with an accuracy of $\pm 1\%$ in phase and out of phase.

The survey was done in the horizontal loop mode using two frequencies (444 Hz and 1777 Hz). Cable separation between transmitter and receiver was a 100 meters. Readings were taken at regular interval of 25 meters along the lines. Data obtained from this survey were plotted on a map accompanying this report in the appendix.

Discussion of results

The MaxMin II horizontal E.M. survey brought out all major conductive zones in the area covered. On grid A a long conductive horizon 200 to 300 meters thick striking roughly N330° composed of a few sub-parallel stratigraphic units of different conductivities crosses northeast part of the grid in low ground with swamps and no outcrop. On grid B a continuous formational double conductor striking roughly N305° crosses the grid along the base line. About 250 meters northeast of base line between line 9W and line 5W a relatively good conductor with a strong magnetic coincidence is also present and finally a strong conductor crosses northeast corner of grid B.

All conductors on both grids are in low ground covered by 5 to 25 meters of overburden.

The following table summarize the different parameters of the H.E.M. conductors found on grid A and grid B .

Grid A

Conductor	Cond×Thickness	Magnetism	Lenght	Width	Depth	Nature
A	4 to 28 mhos	0 to +60V	3.5km+	5-20m	10-25m	Sulfides and or Graphite
B	6 to 23 mhos	0 to +60V	1 km	<10m.	15-25m	Sulfides and or Graphite
C	.2 to .5 mhos	0 to +40V	1.4km	<10m.	10-25m	Diss. sulfides and or Graphite or shear zone

Grid B

<u>Cond.</u>	<u>Cond*Thickness</u>	<u>Magnetism</u>	<u>Length</u>	<u>Width</u>	<u>Depth</u>	<u>Nature</u>
D	5 to 28 mhos	0 to +30%	1 km+	50-100m	10m	Graphite and or Sulfides
E	4 to 8 mhos	+350-2000%	400 m	<10m	15-25m	Sulfides and or possible Graphite
F	1 to 2 mhos	0 to +50%	100m+	<10m	<25m	Graphite and or Sulfides
G	20 to 56 mhos	-30to+150%	300m+	<10m	10-20m	Graphite and or Sulfides

Note: Conductor D is most probably a double conductor with each axis separated 50 to 100 meters from each other. Actual width of each conductor axis is probably in the order of 5 to 10 meters.

GEOCHEMICAL SURVEY

During the period from August 13 to Sept 5 1983 two Esso Minerals employees (1 geologist + 1 assistant) collected 676 samples of soil over grid A and grid B of the Carpentier property.

The geochemical sampling was done on every line of the two grids with samples taken at an interval of 100 meters. A lozengic configuration of sampling over the two grids was used to obtain the most constant spacing between the samples.

Sampling was aimed at collecting preferentially whenever possible the B horizon in the soil. Due to the very swampy nature of the terrain in low ground about 30% of samples collected where from the A horizon especially in the peat bogs.

Samples were sent for preparation and analysis to Metriclab Inc of Ste Marthe sur le Lac a laboratory north of Montreal.

Thirteen soil samples collected at the same place (dummies) were introduced at regular interval within the suite of samples sent to the laboratory to control the relative accuracy of the analysis.

All soil samples were analysed geochemically by atomic absorption for Gold (Au), Arsenic (As), Silver (Ag), and Zinc (Zn).

Within the dummies analysed, Gold (Au) varied from 4 to 10 ppb for a mean of 6 ppb and a standard deviation of 1.73 ppb. Silver (Ag) varied from .1 to .6 ppm for a mean of .33 ppm and a standard deviation of .16 ppm. Arsenic (As) varied from .5 to 2.0 ppm for a mean of 1.03 ppm and a standard deviation of .557 ppm. And Zinc (Zn) varied from 7 to 21 ppm for a mean of 12.8 ppm and a standard deviation of 4 ppm. The variations within the 13 dummies analysed are due to two main cause: possible inhomogeneity in the sample analysed and the error inherent to analytical procedure. The purpose of this exercise was to gather a fair level of confidence over the results of the 676 soil samples analysed and to quantify possible variations in the low values characterising most of the samples.

Discussion of results

In the population of 676 soil samples analysed we have calculated for each element the mean and the standard deviation. All values exceeding the mean plus two time standard deviation ($\bar{X} + 2\sigma$) for a given element have been classified as first order

anomalous values and have been plotted on the geochemical map in appendix. Values greater than mean plus standard deviation ($\bar{X} + \sigma$) for a given element have been classified as second order anomalous values.

Parameters of the values distribution for each element have been tabulated below.

<u>Element</u>	<u>Distribution range</u>	<u>Mean</u>	<u>Standard deviation</u>	<u>Second order anomalous value</u>	<u>First order anomalous value</u>
Au	4 to 67 ppb	6.91ppb	4.16ppb	11<Au<15 ppb	Au > 15 ppb
Ag	.1 to 5.2ppm	.373ppm	.319ppm	.7<Ag<1.0 ppm	Ag > 1.0 ppm
As	.5 to 13 ppm	1.30ppm	1.34ppm	2.6<As<4.0 ppm	As > 4.0 ppm
Zn	1 to 456ppm	14.6ppm	21.1ppm	36<Zn<57 ppm	Zn > 57 ppm

By practical standards none of the highest values recorded for any of the four elements analysed can be considered very high. However this does not mean that no deposit is present under the overburden. Considering the fact that we are dealing on the Carpentier property mostly with a fluvio-glacial pleistocene type of overburden, it is generally recognised that such washed out glacial environment can often yield poor geochemical signature of the underlying bedrock.

GEOLOGICAL MAPPING

Generalities

From Sept. 14 to Oct. 11 1983, two Esso Minerals geologists carried out geological mapping on grid A and grid B of the Carpentier property. Mapping was performed on and between the lines of the grids.

The Carpentier property lies in the Abitibi Greenstone Belt of the Superior Province of the Canadian Shield. The rocks on the property are early Precambrian in age. They are mostly schistose intermediate to felsic pyroclastic rocks with a few intercalated flows of pillowed metabasalts. Minor hypabyssal rocks include porphyry dykes and sills.

Intermediate to felsic tuffs

We find this rock throughout the western portion of grid A. It is usually schistose, very fine-grained, cream- or tan-colored on the weathered surface but greenish inside due to a moderate chloritization. We also observe locally a minor amount of quartz eyes 1-5mm in size. Shearing, often accompanied by carbonatization, can be seen in some outcrops and results in the rock becoming very fissile and crumbly.

Interlayered intermediate to felsic tuff

This unit resembles closely the preceding one except that it contains layers, bands or lenses of a green component, giving it a layered or sometimes agglomeratic appearance. The largest occurrence can be found in the northern part of grid A near the base line but it also crops up elsewhere. We can probably view the transition between this unit and the intermediate to felsic tuff as a gradational one.

Felsic tuff

This rock type is restricted to the extreme western part of grid A, i.e. around 8+00 W. It is schistose, very fine-grained, waxy-gray on a fresh surface and weathers to a light color. Special features are the presence of: 1- sericite and some muscovite flakes up to 5mm and 2- sharp feldspar phenocrysts 1-3mm locally accounting for up to 15% of the rock. Two sulfide zones were found associated with

this felsic tuff. Total extent of these zones could not be ascertained but one of them does not seem to exceed 1m in width, length unknown. Pyrite is the principal sulfide and occurs disseminated, in veinlets and in small pockets, for a total of about 40% of the whole. Analysis of a sample from one zone was as follows: Au 265ppb, Ag 3.7ppm, As 173 ppm. The other zone had 64ppm As and 27 ppb Au.

Intermediate tuff

This is a green, chloritized rock, almost massive or slightly schistose, in places containing feldspar phenocrysts or clots a few mm in size, also some quartz eyes. On the outcrop, the rock is locally magnetic in spots a few cm or dm wide. Not all outcrops show this feature, however. The main occurrence is as a band 25m wide and over 1km long in the western part of grid A.

Pillowed metabasalts

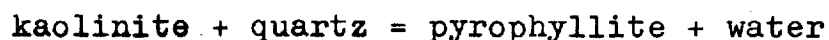
Only a few outcrops of truly unmistakable pillowed basalts have been found on the grids. The best ones define a band (flow?) 10 to 20m wide and 200m long intercalated in (interlayered) intermediate to felsic tuff. Pillow structures are very well preserved though slightly deformed. Unfortunately, features in the rock did not permit flow top determination. We believe that there are more basaltic flows on the property, but they are either unexposed or too altered and deformed to be recognized.

Quartz-chloritoid-pyrophyllite gneiss; quartz-pyrophyllite schist

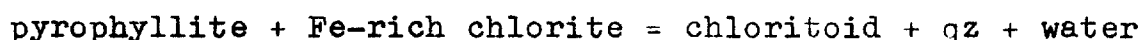
We now come to an interesting unit which is exposed over a strike length of 2700m (albeit with some gaps) and a maximum width of 300m. It is predominantly a quartz-chloritoid(-pyrophyllite) gneiss, whitish or greenish in color, quite tough, showing excellent laminations 2-3mm wide which display cross-bedding structures in places. In the extreme northern tip of the outcrop group, we find a large zone of quartz-pyrophyllite schist. Previous studies (Tremblay and Descarreaux 1978) have shown a pyrophyllite content exceeding 60% over sizable widths (many meters). Folding becomes noticeable in the quartz-pyro-

phyllite schist but this is to be expected because of the less competent nature of the rock. We have mapped other quartz-pyrophyllite zones, but they are rather restricted in size (not over 25m long by 5-10m) except for two bands 5-10m wide, 125 and 200m long in the north part and another extensive zone in the south part of grid A.

Formation of the quartz-pyrophyllite rock was explained by Tremblay and Descarreaux (1978) as being due to "...hydrothermal alteration of acid volcanics...as a result of a two-step metasomatic process". Presumably, the remainder of the outcrops, that is, the quartz-chloritoid(-pyrophyllite) gneiss would be less altered acid volcanics. In that case they may be reworked felsic tuffs, judging by the cross-bedding features observed. Another view, discarded by Tremblay and Descarreaux (1978), is that this unit originated as a pelitic sediment. According to Winkler (1974), however, pyrophyllite forms during very-low-grade metamorphism of pelites along the reaction:



With increasing metamorphism (but still within low grade), chloritoid would form at the expense of pyrophyllite:



In the view of the mapper, more detailed studies could shed some light on the subject, but that may not have an immediate practical use.

Pinkish quartzo-feldspathic porphyry

Mapping has permitted to define two porphyry dykes in the middle of grid A, near the base line, as well as a few outcrops in the western part of the grid. The dykes are 2-3m wide and can be followed for about 400m. The rock is pinkish-white, massive to sheared, made of fine-grained quartz and feldspar mostly, but carbonatization is common. Disseminated pyrite is usually seen in amounts as high as 5%.

Feldspar-porphyrific felsic sills

We were able to identify at least three 5m-wide sills which could be followed intermittently for about 700m. These sills are

made up of a massive to gneissic rock, gray on a fresh surface, containing up to 60% feldspar phenocrysts 1-3mm plus some quartz eyes set in a fine-grained matrix.

Carbonate-rich intermediate intrusive

This enigmatic rock was found in the west-central part of grid A. The main body is about 400m by 50m, but the rock was also found in a few other scattered outcrops. It is generally massive, somewhat variable in composition, being gray, greenish-gray or grayish-tan on a fresh surface, and weathering tan or brownish. Carbonate content is high, as much as 50% of sometimes sub-euhedral 1-2mm crystals. It is an iron-bearing variety because it becomes more and more oxidized closer to the weathered surface. It is not known whether the carbonate is primary or formed by carbonatization of the rock.

Other features

Quartz veins of various attitudes can be seen in the quartz-chloritoid(-pyrophyllite) gneiss. More complex quartz-carbonate-chlorite veins occur in the (interlayered) intermediate to felsic tuffs, sometimes associated with shears. These veins may have a genetic affinity with massive carbonate zones seen on two outcrops.

Structure

Schistosity in the rocks of the property is remarkably constant, averaging about $N320^{\circ}$ and rarely deviating more than 15° from this value. But, as mentioned earlier, folding becomes more noticeable in the quartz-pyrophyllite rock. Strong shearing, marking the emplacement of a major fault, can be observed in many outcrops close to the base line of grid A.

Analytical results

A total of 49 rock samples were analyzed for As, Ag and Au. Complete results appear in the Appendix to this report.

The highest gold value, 458ppb, was encountered in a quartz-carbonate-chlorite vein adjacent to an exposure of pinkish quartzo-

feldspathic porphyry. Another high value (448ppb) was obtained from a quartz-carbonate-tourmaline vein cutting the quartz-pyrophyllite-chloritoid schist. A sulfide zone, containing up to 70% pyrite, in the felsic tuff in the extreme western part of grid A yielded 265ppb Au. It also contained the highest As value (173ppm) and the highest Ag value (3.7ppm). Another similar sulfide zone only 150m away showed only minimal Au (27ppb), but a rather high content of As (64ppm). Arsenic was present to the tune of 41ppm in a carbonatized boulder with traces of pyrite. Most other As values were under 5ppm, Ag below 1ppm and Au less than 10ppb.

RECOMMENDATIONS

Following interpretation of all surveys performed on the Carpentier property, we recommend the drilling of 5 holes on grid A and grid B of the Carpentier property.

Three holes are to check conductors A, B and C of grid A and two holes to check conductors E and F of grid B.

Parameters of the holes recommended are given below:

<u>Grid</u>	<u>Hole</u>	<u>Location</u>	<u>Azimuth</u>	<u>Dip</u>	<u>Length</u>	<u>Overburden Thickness Est. Vert.</u>
A	CA-83-1	L-6S, 3+40E	N234°	-45°	200m (650')	10m
B	CA-83-2	6+75W, 3+15N	N215°	-45°	120m (400')	20m
B	CA-83-3	L-7W, 0+50N	N215°	-45°	150m (500')	15m
A	CA-83-4	L-15N, 7+20E	N234°	-45°	200m (650')	15m
A	CA-83-5	L-9N, 5+95E	N234°	-45°	150m (500')	20m

APPENDIX

List of analysed rock samples

Carpentier project Grid A

<u>Sample #</u>	<u>Location</u>	<u>Description</u>
3301	L-8S , 1+55W	Qz vein with specularite cutting green mas. tuff
3302	8+20S, 0+10W	Qz,tourm,carb.vein with py. tr. cutting Qz,pyro., chloritoid schist.
3303	8+95S, 1+60W	Qz,carb,chlorite vein cutting interm. tuff
3304	L-9S , 3+40W	Qz,chlor. vein cutting interlayered int.&fel.tuff
3305	7+37S, 0+75W	Felsic to int. siliceous tuff with 1-2% loc diss py
3306	8+25S,1+70W	Fel. to int. porphyritic green tuff slig. carbon.
3307	1+40N , 0+25W	Boulder carbonatized,rusty with py. tr.
3308	0+15S , 0+60W	Porphyry lightly sheared and carb.with <1% diss py
3309	L-0 ,0+60W	Idem to 3308 + a little sericite and just tr. py
3310	1+25N , 0+10W	Boulder ang;chlor,carb inter. tuff with 2-5% py
3311	2+90N , 0+50W	Boulder ang;grey Qz vein with py tr. cutting carbonatized grey tuff or sediment
3312	8+20S , 1+90W	Sheared pinkish porphyry or tuff carbonatized
3313	8+70S , 0+70W	Qz vein 2cm. with 5% py in sheared interm. tuff
3314	0+92N , 0+05W	Qz,carb,chlorite, muscovite mass of 1m ²
3315	17+60N, 3+25E	Qz vein 1-25 cm. wide
3316	0+20S , 4+12W	Qz,carb,chlorite zone with tr. to 1% diss. py
3317	4+30S , 4+10W	Porphyry carbonatized with 1-2% diss. pyrite
3318	18+70N, 1+38E	Boulder(large) fine grain felsic rock with 5% py
3319	0+67S , 2+45W	Int. to felsic tuff ⁺ chloritized with tr. of py
3320	4+06S , 1+70W	Interlayered int. to fel.tuff ⁺ chlor. with tr py
3321	0+67S , 2+40W	Qz,chlor. zone(15cmx2m) with 5-10% pyrite
3322	4+50S , 4+13W	Qz,carb,chlor. zone(2-3m large) with tr. of py.
3323	1+40S , 2+30W	Qz,chlotite vein with little carbonate
3324	2+18S , 4+70W	Inter. to felsic tuff,porphyritic with 1% pyrite
3325	15+80N, 2+25E	Boudinaged quartz vein 1-30 cm wide
3326	17+16N, 1+20W	Qz,chlotite vein 8-20cm by 3 meters
3327	2+18S , 9+15W	Boulder (50cm) fine grain felsic rock with 5-10% py
3328	16+85N, 2+06E	Quartz vein striking N60/72
3329	2+06S , 4+20W	Interm to felsic tuff with 15-20% qz pebbles 2-3mm chloritized with trace to 1% pyrite
3330	4+15S , 1+75W	Pinkish quartz carbonate vein 1-8 cm wide
3331	6+52S , 3+00W	Qz,carb.chlorite vein 5-20 cm wide

List of analysed rock samples (continued)

Carpentier project

<u>Sample #</u>	<u>Location</u>	<u>Description</u>
3332	2+07S , 3+30W	Qz, ⁺ carb, ⁺ chlorite vein 5-25 cm wide
3333	4+80S , 4+12W	Quartz,carbonate zone 15-30 cm wide
3334	5+70S , 3+25W	Pinkish quartz,carbonate vein 1-15 cm wide
3335	core Marimac	3 mm qz vein with 1-2% diss.py cutting intermediate tuff with chloritoid
3336	core Marimac	Fine grain silicified felsic rock with few lmm feldspar phenocryst and traces of pyrite
3337	L-5N , 1+02E	Qz,chloritoid, ⁺ pyrophyllite gneiss with tr. py.
3338	L-1N , 8+13W	Altered siliceous rock with up to 50% pyrite diss. and as irregular patches
3339	L-2N , 5+10W	Int to felsic porph tuff chor.,carb. with 1% py
3340	2+16N , 0+49W	White massive porphyry,lightly carb. with tr py
3341	2+03N , 0+52W	Qz,carbonate,chlorite vein
3342	2+21N , 3+44W	Inter to felsic tuff ₊ chloritized with tr py
3343	10+42N, 1+61E	Qz,chloritoid,pyrophyllite gneiss with 5-10% py
3344	2+40N , 0+65E	Qz,chloritoid,pyrophyllite gneiss with py traces
3345	2+15N , 7+35W	Mineralized zone in felsic tuff with up to 70% pyrite over 1 meter
3346	0+52N , 0+36W	Qz,carbonate rusty vein 30 cm wide
3347	11+75N, 1+00E	Quartz vein
3348	11+85N, 1+73E	Qz,chloritoid,pyrophyllite gneiss with loc. 1% py
3349	11+75N, 1+60E	Qz,chloritoid,pyrophyllite gneiss with two rusty zones containing up to 5% pyrite
3350	17+00N, 1+35E	Qz,chloritoid gneiss with locally 1% pyrite
3351	1+25S, 3+32W	Fe Carbonate rich sill like intrusive rock 80 cm. thick with 1% pyrite
3352	0+80S, 6+52W	Idem to 3351 but with 1-2% cubic pyrite 1-2mm
3353	L-0 , 0+60W	Porphyry pinkish white,carbonatized with 2-5%py
3354	3+00N, 6+42W	Fe Carbonate rich intusive rock with trace py
3355	L-15N, 1+50E	Qz,chlortitoid,pyrophyllite gneiss with 1% py
3356	16+60N, 3+25E	Qz,pyrophyllite gneiss with 0-10% diss. pyrite
3357	15+45N, 2+14E	Qz,chloritoid, ⁺ pyrophyllite with 1% pyrite

List of analyzed core sections

Carpentier project

Hole: John Manville CA-66-7

Location: Grid B, 3+40W, 4+75N

<u>Sample #</u>	<u>Section</u>	<u>Description</u>
3358	13.11-13.72m	Mafic metavolc. chloritized, schist., trace py
3359	13.72-15.24m	Id. 3358, moderately magnetic
3360	15.24-16.76m	Id. 3358, moderately magnetic
3361	16.72-17.13m	Qz-carbonate vein, about 1% pyrite
3362	17.13-17.53m	Metavolc. chloritized, schist., ~1% diss. py
3363	17.53-19.05m	Id. 3362, trace to 1% pyrite
3364	19.05-20.57m	Id. 3362, qz-carb. veins 1cm, trace pyrite
3365	20.57-22.10m	Id. 3362, trace pyrite
3366	22.10-23.62m	Id. 3362, few qz-carb. veins <1cm, trace py
3367	23.62-25.14m	Id. 3366
3368	25.14-26.67m	Metavolc., chloritized, moderately schist., ~25% qz-carb. zones, ± brecciated, trace py
3369	26.67-28.19m	Id. 3368, trace pyrite
3370	28.19-29.72m	Metavolc., chloritized, moder. to very schist., ~15% qz-carb. veins, trace pyrite
3371	29.72-31.24m	Metavolc., chloritized, moder. schist., ~10% qz-carb. veins, trace pyrite
3372	31.24-32.76m	Id. 3371, trace pyrite
3373	32.76-34.29m	Id. 3371, ~5% qz-carb. veins, trace pyrite
3374	34.29-35.81m	Metavolc., chloritized, moder. schist., carbonated breccia zones
3375	35.81-37.34m	Metavolc., chloritized, moder. schist., few carb.-qz+py veins
3376	37.34-38.86m	Id. 3375, trace pyrite
3377	38.86-40.38m	Id. 3375, trace pyrite
3378	40.38-41.91m	Id. 3375, trace pyrite
3379	41.91-43.43m	Id. 3375, trace pyrite
3380	43.43-44.96m	Metavolc., chloritized, schist., many carb. zones, trace pyrite
3381	44.96-46.48m	Metavolc., chloritized, moder. schist., <5% qz-carb veins, trace pyrite

List of analyzed core sections (cont'd)

<u>Sample #</u>	<u>Section</u>	<u>Description</u>
3382	46.48-48.00m	Id. 3381, trace pyrite
3383	48.00-49.53m	Id. 3381, trace pyrite
3384	49.53-51.05m	Id. 3381, trace pyrite
3385	51.05-52.58m	Metavolc., chloritized, schist., 10% qz-carb. zones, trace pyrite
3386	52.58-54.10m	Metavolc., chloritized, schist., ~15% qz-carb. zones, trace pyrite
3387	54.10-56.23m	Metavolc., chloritized, moder. schist., ~5% qz-carb. zones, trace pyrite
3388	56.23-57.76m	Talc-schist, fine to medium-grained, magnetic, trace to 5% pyrite
3389	57.76-59.28m	Talc-schist, magnetic, ~2% carb. veins, trace to 2% pyrite
3390	59.28-60.80m	Talc-schist, mag., ~2% carb. veins, tr. py
3391	60.80-62.12m	Id. 3390
3392	62.12-62.66m 63.09-63.33m	Metagabbro, fine-gr., chloritized, massive to mod. schist., few carb. veins, local. talcous, v. slightly magnetic, rare pyrite
3393	62.66-63.09m	Talc-schist, very fine-gr., magnetic
3394	63.33-64.31m	Feldspar porphyry, pinkish-gray, medium-gr., sub-mm chlorite veinlets, trace pyrite
3395	64.31-65.28m	Id. 3394, rare pyrite
3396	65.28-67.05m	Talc-schist, carbonatized, fine-gr., mag., rare pyrite
3397	67.05-68.94m	Id. 3396
3398	68.94-70.47m	Serpentine, fine- to medium-gr., picrolite: diss. & in veins, few carb. veins, magnetic
3399	70.47-71.99m	Id. 3398, trace pyrite
3400	71.99-73.15m	Id. 3399



**ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2**

RÉSULTATS # **1037314** COMMANDE #

PROJET # **CARPENTIER** DATE: **83-10-25**

PAGE **1**

Att.: **M. Bernard Borduas**

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Ag	Au								
	ppm	ppm	ppb								
3301	1.5	.1	6								
3302	.5	.1	448								
3303	.5	.2	11								
3304	1.0	.3	5								
3305	2.0	.4	7								
3306	7.5	.5	7								
3307	41.	.4	5								
3308	1.5	.2	23								
3309	.5	.1	6								
3310	5.0	.6	27								
3311	4.5	.2	6								
3312	1.0	.1	4								
3313	2.0	.1	5								
3314	1.0	.2	5								
3315	1.0	.1	5								
3316	3.0	1.0	9								
3317	.5	.2	4								
3318	1.0	.5	6								
3319	15.5	1.0	7								
3320	5.5	.3	5								



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037314 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 2

Att: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Ag	Au							
	ppm	ppm	ppb							
3321	1.5	.4	5							
3322	1.0	1.0	4							
3323	1.0	.1	4							
3324	.5	.9	5							
3325	1.0	.1	4							
3326	1.0	.1	3							
3327	1.0	.4	4							
3328	1.0	.7	6							
3329	1.0	.7	6							
3330	1.0	.2	4							
3331	.5	.2	5							
3332	.5	.1	4							
3333	.5	.8	4							
3334	1.0	.1	5							
3335	1.0	.3	6							
3336	.5	.3	6							
3337	.5	.2	12							
3338	64.	.8	27							
3339	4.0	.8	6							
3340	.5	.1	4							

MB



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037314 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 3

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Ag	Au							
	ppm	ppm	ppb							
3341	1.0	.1	458							
3342	.5	.4	6							
3343	1.5	.5	18							
3344	1.5	.2	7							
3345	173.	3.7	265							
3346	10.5	.3	21							
3347	2.5	.2	5							
3348	8.0	.3	5							
3349	5.5	.2	6							

H. Blais



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037322 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-27

PAGE 1

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Ag	Au							
	ppm	ppm	ppb							
3350	.5	.6	6							
3351	.5	.7	9							
3352	2.0	.9	8							
3353	.5	.5	32							
3354	1.5	.7	7							
3355	1.0	1.7	6							
3356	1.5	.7	8							
3357	8.0	.9	9							
3358	1.5	.8	7							
3359	.5	.8	6							
3360	2.0	.7	24							
3361	1.5	.5	5							
3362	2.0	1.0	6							
3363	2.0	.9	8							
3364	2.5	1.0	6							
3365	3.0	1.0	6							
3366	3.0	.8	6							
3367	3.0	.8	9							
3368	1.0	1.0	9							
3369	3.0	.8	8							

HB



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037322 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-27

PAGE 2

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Ag	Au								
	ppm	ppm	ppb								
3370	9.5	.7	8								
3371	12.0	.9	6								
3372	9.5	1.0	10								
3373	5.0	.7	5								
3374	3.5	1.1	6								
3375	11.5	.8	6								
3376	7.5	.8	5								
3377	8.0	1.0	6								
3378	9.0	4.6	6								
3379	11.0	1.0	5								
3380	9.0	1.1	9								
3381	15.0	.7	8								
3382	12.5	.6	9								
3383	16.0	.6	5								
3384	14.5	.9	6								
3385	25.	.8	6								
3386	24.	1.0	8								
3387	3.5	.7	6								
3388	2.0	.4	6								
3389	3.5	.4	5								



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037322 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-26

PAGE 3

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Ag	Au								
	ppm	ppm	ppb								
3390	3.0	.5	4								
3391	1.0	.4	4								
3392	1.5	.6	6								
3393	1.5	.3	5								
3394	1.0	.2	6								
3395	2.0	.4	4								
3396	6.0	.5	5								
3397	3.0	.7	5								
3398	14.5	.8	6								
3399	22.	1.0	9								
3400	25.	.8	6								

Borduas



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 1

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
1	2.5	53	.4	5						
2	1.5	18	.2	5						
3	.5	21	.2	4						
4	1.0	21	.2	5						
5	1.0	5	3.0	7						
6	1.0	7	.1	5						
7	1.0	9	.2	6						
8	.5	12	.4	6						
9	.5	11	.4	5						
10	1.0	7	.3	5						
11	1.0	30	.4	5						
12	1.5	23	.6	6						
13	.5	4	.2	5						
14	.5	10	.2	5						
15	2.5	32	.6	6						
16	1.0	63	.7	5						
17	1.0	19	.3	5						
18	4.0	48	.5	10						
19	.5	3	.6	8						
20	.5	10	.3	6						

HB



ESSO MINERALS,
130 duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 2

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
21	.5	13	.1	7						
22	.5	11	.2	5						
23	.5	6	.2	6						
24	.5	9	.2	6						
25	.5	10	.2	8						
26	2.0	7	.2	5						
27	.5	12	.3	5						
28	1.0	6	.3	12						
29	.5	7	.4	7						
30	.5	11	.5	6						
31	.5	7	.4	7						
32	.5	5	.4	5						
33	.5	10	.3	5						
34	.5	7	.5	7						
35	.5	3	.4	6						
36	3.5	4	.4	6						
37	2.5	48	.5	8						
38	.5	10	.4	39						
39	1.0	14	.5	6						
40	2.5	87	1.1	7						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 3

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
41	.5	22	.5	7						
42	.5	8	.4	7						
43	1.5	13	.6	8						
44	.6	10	.5	5						
45	.5	12	.3	5						
46	1.5	35	.5	5						
47	.5	2	.5	4						
48	.5	1	.2	5						
X 49	.5	9	.4	4	dummy					
50	.5	2	.2	5						
51	1.0	5	.3	5						
52	.5	1	.2	5						
53	.5	1	.5	6						
54	.5	5	.5	5						
55	.5	2	.3	32						
56	2.0	1	.9	6						
57	1.0	6	.2	6						
58	.5	7	.2	5						
59	.5	1	.5	6						
60	.5	1	.3	5						

HB



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 4

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
61	.5	1	.4	7						
62	.5	1	.5	7						
63	1.5	1	1.5	5						
64	2.0	23	.3	10						
65	1.0	5	.9	4						
66	1.0	1	.5	5						
67	1.0	7	.8	7						
68	1.0	1	.2	6						
69	1.0	1	.3	6						
70	2.0	1	.4	7						
71	2.5	1	.3	9						
72	2.5	1	.3	7						
73	1.5	5	.4	6						
74	1.5	2	.6	6						
75	1.0	1	.4	5						
76	2.0	2	.7	5						
77	2.0	1	.8	6						
78	2.0	1	.5	5						
79	1.0	8	.3	5						
80	N.S.	N.S.	N.S.	N.S.						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 5

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
81	2.0	26	.7	9						
82	1.0	13	.5	7						
83	.5	18	.4	8						
84	.5	13	.5	8						
85	1.0	14	.5	7						
86	.5	21	.4	5						
87	.5	9	.3	12						
88	2.0	25	.6	7						
89	.5	2	.3	9						
90	.5	18	.4	6						
91	1.0	5	.2	6						
92	1.0	6	.9	7						
93	1.5	1	.3	8						
94	1.0	33	.3	6						
95	.5	32	.4	6						
96	.5	4	.3	7						
97	N.S.	N.S.	N.S.	N.S.						
98	.5	11	.8	25						
99	1.0	5	.3	5						
100	.5	6	.3	4						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 6

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
X 101	.5	10	.3	5	dummy					
102	1.0	13	.6	6						
103	1.5	7	.6	5						
104	.5	37	.4	4						
105	.5	13	.3	7						
106	1.0	27	.4	6						
107	.5	15	.3	6						
108	.5	25	.4	6						
109	.5	20	.5	7						
110	1.0	16	.6	7						
111	.5	14	.3	8						
112	1.0	8	.5	5						
113	.5	29	.8	4						
114	.5	5	.3	5						
115	1.0	456	.4	5						
116	.5	21	.3	4						
117	1.0	1	1.0	4						
118	1.0	2	.3	4						
119	.5	3	.3	19						
120	.5	6	.3	5						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 7

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
121	.5	15	.4	5						
122	1.0	13	.6	7						
123	1.0	4	.2	5						
124	1.0	31	.8	4						
125	.5	33	.7	5						
126	1.5	26	1.1	67						
127	1.0	32	.5	6						
128	.5	35	.6	5						
129	1.5	25	.5	5						
130	.5	13	.5	4						
131	.5	9	.3	6						
132	.5	13	.6	7						
133	.5	16	.6	5						
134	.5	16	.6	7						
135	1.0	8	.5	5						
136	.5	14	.6	5						
137	.5	10	.8	5						
138	1.0	13	.5	6						
139	1.0	2	.5	5						
140	.5	1	.5	5						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 8

Att: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
141	1.0	2	.5	6						
142	1.0	5	.5	5						
143	.5	10	.9	5						
144	1.5	109	2.6	5						
145	.5	4	.5	4						
146	1.0	6	.6	6						
147	.5	10	.5	6						
148	1.0	17	.8	6						
149	.5	2	.6	5						
150	.5	8	.6	6						
151	1.0	8	.5	7						
X 152	1.5	10	.6	5	dummy					
153	1.0	1	.5	5						
154	.5	6	.5	6						
155	1.0	6	.6	5						
156	.5	4	.5	5						
157	.5	4	.6	16						
158	.5	5	.5	4						
159	.5	12	.8	5						
160	.5	5	.6	5						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 9

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
161	1.0	20	.6	4						
162	.5	7	.5	24						
163	.5	10	.6	40						
164	.5	8	.6	5						
165	1.0	14	.7	5						
166	1.5	18	.6	4						
167	.5	8	.5	5						
168	1.0	15	.6	9						
169	.5	35	.7	6						
170	.5	2	.5	5						
171	.5	8	.6	4						
172	.5	4	.5	5						
173	1.0	9	.6	5						
174	.5	7	.6	5						
175	.5	4	.6	6						
176	.5	7	.6	5						
177	.5	1	.5	5						
178	.5	2	.5	4						
179	2.5	10	.7	5						
180	1.5	13	5.2	5						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 10

Att: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ECHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
181	1.0	10	.7	6						
182	13.0	47	1.0	6						
183	3.5	29	.8	5						
184	9.0	23	.8	34						
185	2.0	16	.7	4						
186	1.0	12	.7	6						
187	3.0	35	.9	5						
188	1.0	2	.6	5						
189	1.5	43	.4	6						
190	.5	16	.4	8						
191	1.5	5	.2	5						
192	.5	7	.2	5						
193	1.0	6	.2	5						
194	.5	5	.2	7						
195	.5	7	.3	5						
196	.5	14	.2	6						
197	.5	8	.3	5						
X 198	2.0	12	.3	6	dummy					
199	.5	9	.2	6						
200	1.5	8	.2	5						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 11

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
201	.5	5	.3	5						
202	.5	9	.2	4						
203	.5	3	.5	7						
204	.5	14	.5	6						
205	.5	29	.5	5						
206	.5	33	.7	5						
207	1.0	16	.7	4						
208	.5	6	.3	7						
209	.5	10	.4	7						
210	1.5	8	.3	5						
211	1.0	3	.2	5						
212	.5	4	.2	5						
213	1.0	3	.2	6						
214	1.0	9	.3	5						
215	.5	24	1.0	5						
216	2.0	19	.3	5						
217	1.0	4	.2	5						
218	1.0	30	.5	8						
219	.5	7	.2	6						
220	1.0	39	.6	6						

HB



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 12

Att: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
221	.5	10	.2	7						
222	.5	35	.3	5						
223	1.0	20	.2	4						
224	.5	7	.2	7						
225	.5	27	.2	5						
226	.5	14	.2	6						
227	2.0	8	.2	6						
228	.5	22	.2	5						
229	.5	12	.2	5						
230	.5	20	.3	6						
231	.5	17	.3	6						
232	1.0	46	.6	7						
233	2.0	43	.6	6						
234	1.5	41	.5	4						
235	.5	10	.3	5						
236	.5	22	.5	5						
237	.5	13	.3	7						
238	.5	4	.2	5						
239	.5	10	.2	10						
240	.5	4	.2	6						

HB



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 13

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
241	2.0	6	.3	5						
242	1.5	5	.2	5						
243	1.0	6	.2	8						
244	1.0	8	.3	5						
245	1.0	10	.7	5						
246	1.0	6	.2	4						
247	.5	5	.3	9						
X 248	1.0	13	.5	6	dummy					
249	1.0	9	.3	4						
250	.5	7	.5	5						
251	1.0	4	.2	5						
252	.5	7	.5	8						
253	.5	8	.2	5						
254	2.0	25	.5	7						
255	1.0	12	.5	6						
256	1.5	11	.3	6						
257	1.5	16	.3	25						
258	3.5	45	.7	7						
259	2.0	36	.9	8						
260	2.0	29	.5	6						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 14

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
261	2.0	11	.3	8						
262	1.0	5	.4	7						
263	.5	6	.3	7						
264	1.5	10	.3	9						
265	1.0	4	.3	5						
266	.5	15	.5	6						
267	2.0	28	.7	8						
268	6.5	16	.5	6						
269	2.5	17	.6	6						
270	5.0	27	.7	9						
271	5.0	18	.4	10						
272	2.5	13	.9	8						
273	1.0	14	.3	7						
274	.5	17	.3	7						
275	.5	5	.3	6						
276	2.5	24	.3	6						
277	2.0	11	.3	6						
278	.5	1	.2	7						
279	.5	2	.3	7						
280	.5	6	.2	9						



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 15

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
281	.5	6	.2	6						
282	1.0	6	.3	9						
283	1.5	16	.3	10						
284	2.5	5	.3	7						
285	3.0	1	.3	8						
286	1.5	17	.3	7						
287	2.5	6	.2	7						
288	4.0	1	.3	6						
289	11.5	1	.8	7						
290	12.0	8	.6	6						
291	9.5	9	.3	12						
292	10.0	2	.3	5						
293	8.0	6	.3	6						
294	1.5	6	.2	9						
295	.5	15	.2	6						
296	1.0	18	.2	5						
297	.5	18	.2	8						
298	1.0	14	.5	6						
299	2.5	25	.6	10						
X 300	2.0	13	.5	6	dummy					



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 16

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
301	2.0	11	.5	6						
302	2.0	2	.3	5						
303	2.0	32	.2	14						
304	1.5	1	.3	8						
305	2.5	1	.5	7						
306	4.5	28	.5	5						
307	4.5	10	.3	10						
308	5.0	5	.5	6						
309	4.5	2	.2	8						
310	4.5	9	.5	8						
311	5.5	1	.5	7						
312	4.5	11	.3	6						
313	6.0	1	1.2	8						
314	10.0	1	.7	6						
315	3.0	1	.3	9						
316	1.5	4	.3	5						
317	1.0	9	.2	8						
318	2.0	13	.3	7						
319	2.5	15	.5	5						
320	2.0	5	.5	5						



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 17

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
321	1.0	11	.3	6						
322	1.5	11	.5	5						
323	1.0	5	.3	9						
324	1.0	4	.3	6						
325	1.5	6	.3	6						
326	2.0	12	.5	5						
327	.5	8	.5	9						
328	1.0	10	.3	6						
329	.5	5	.2	5						
330	.5	10	.2	6						
331	1.0	8	.3	20						
332	1.5	6	.2	7						
333	2.0	19	.3	5						
334	1.0	22	.8	10						
335	1.5	6	.1	7						
336	.5	2	.2	6						
337	.5	7	.2	9						
338	1.0	7	.2	6						
339	.5	12	.2	5						
340	4.5	6	.3	11						



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 18

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
341	.5	5	.2	7						
342	.5	6	.2	6						
343	.5	14	.2	6						
344	1.0	11	.2	6						
345	5.0	97	.2	7						
346	2.0	11	.6	6						
X 347	1.0	13	.5	10	dummy					
348	.5	12	.2	8						
349	.5	2	.2	7						
350	.5	5	.2	7						
351	.5	10	.2	11						
352	1.5	8	.2	6						
353	1.0	9	.5	5						
354	1.0	7	.2	6						
355	1.5	10	.3	7						
356	.5	6	.2	7						
357	2.0	12	.5	8						
358	2.0	7	.2	6						
359	1.0	11	.5	5						
360	2.5	12	.4	7						



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 19

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
361	2.0	12	.3	7						
362	1.0	13	.4	5						
363	1.0	7	.4	5						
364	.5	14	.4	8						
365	1.5	6	.2	6						
366	1.0	9	.4	12						
367	1.0	32	.3	5						
368	.5	9	.4	6						
369	1.0	11	.5	5						
370	1.5	10	.4	9						
371	1.5	8	.4	5						
372	1.0	7	.2	4						
373	1.5	5	.2	7						
374	2.0	11	.3	6						
375	1.0	6	.3	6						
376	.5	6	.4	5						
377	1.5	6	.3	7						
378	1.0	14	.3	7						
379	2.0	14	.3	12						
380	1.5	10	.3	8						



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 20

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
381	2.0	13	.4	6						
382	1.0	6	.3	9						
383	1.0	9	.3	8						
384	1.0	14	.4	6						
385	1.0	18	.4	6						
386	1.0	16	.3	7						
387	.5	10	.3	8						
388	1.5	11	.3	7						
389	1.0	4	.3	7						
390	1.5	8	.3	6						
391	2.0	5	.3	7						
392	2.0	8	.3	7						
393	2.0	11	.4	8						
394	1.0	11	.3	6						
395	1.5	10	.2	6						
396	1.5	8	.2	6						
397	1.0	8	.2	7						
398	2.0	11	.3	6						
399	.5	6	.3	5						
400	1.0	9	.2	5						



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 21

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
401	2.0	8	.3	8	dummy					
X 402	1.5	13	.3	6						
403	1.5	5	.3	7						
404	1.0	6	.3	7						
405	1.5	4	.2	8						
406	1.0	5	.3	6						
407	N.S.	N.S.	N.S.	N.S.						
408	N.S.	N.S.	N.S.	N.S.						
409	1.0	8	.3	8						
410	1.0	9	.2	6						
411	1.0	10	.3	6						
412	1.0	13	.3	6						
413	1.0	11	.2	8						
414	1.0	6	.3	6						
415	1.5	7	.3	5						
416	1.0	5	.2	5						
417	.5	5	.2	6						
418	1.0	4	.3	6						
419	1.5	7	.3	10						
420	1.0	4	.2	14						



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 22

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
421	1.0	20	.2	5						
422	1.0	16	.4	5						
423	1.5	29	.3	7						
424	1.0	34	.6	6						
425	2.0	7	.2	8						
426	1.5	4	.2	5						
427	1.0	5	.2	7						
428	1.5	39	.5	7						
429	1.0	9	.4	5						
430	1.0	11	.2	6						
431	.5	8	.2	5						
432	N.S.	N.S.	N.S.	N.S.						
433	2.5	17	.5	7						
434	2.5	30	.5	9						
435	2.0	21	.3	5						
436	2.5	19	.6	6						
437	1.0	9	.3	9						
438	1.0	30	2.0	14						
439	.5	21	.3	10						
440	1.5	17	.2	7						



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 23

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
441	.5	12	.2	6						
442	.5	11	.2	5						
443	.5	7	.2	5						
444	.5	8	.2	5						
x 445	.5	12	.2	6	dummy					
446	.5	7	.2	5						
447	1.0	9	.3	5						
448	1.0	16	.2	5						
449	1.5	32	.3	6						
450	.5	15	.2	4						
451	.5	10	.2	5						
452	1.5	17	.3	6						
453	.5	6	.3	7						
454	1.0	8	.2	5						
455	.5	8	.2	5						
456	.5	12	.2	18						
457	1.0	10	.2	7						
458	1.0	9	.1	7						
459	1.0	4	.2	5						
460	1.0	4	.4	5						



ESSO MINERALS,
130 rue Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 24

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
461	1.0	14	.4	7						
462	1.0	4	.5	5						
463	.5	7	.4	5						
464	.5	3	.2	8						
465	.5	2	.2	6						
466	.5	2	.2	6						
467	.5	4	.2	5						
468	.5	7	.2	6						
469	.5	9	.3	5						
470	1.0	10	.3	6						
471	1.0	6	.3	6						
472	.5	15	.3	6						
473	1.0	12	.5	7						
474	1.0	11	.3	5						
475	.5	5	.3	8						
476	.5	12	.5	7						
477	.5	4	.3	6						
478	1.0	10	.6	7						
479	.5	6	.5	6						
480	2.0	37	.6	12						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 25

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
481	1.5	17	.5	10						
482	1.0	5	.4	7						
483	1.5	5	.6	7						
484	2.0	11	.9	6						
485	1.5	25	.5	8						
486	2.0	15	1.0	13						
487	1.5	30	.5	5						
488	1.0	21	.7	6						
489	1.0	12	.6	6						
490	1.5	28	.5	6						
491	1.5	25	.4	7						
492	1.0	14	.5	5						
493	1.0	14	.4	5						
494	1.5	13	.5	11						
495	1.5	16	.8	7						
496	1.5	39	.5	7						
X 497	.5	21	.3	5	dummy					
498	.5	21	.7	6						
499	1.0	28	.5	7						
500	1.5	37	.5	6						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 26

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
501	1.0	11	.3	10						
502	2.0	21	.3	8						
503	1.0	1	.3	5						
504	1.0	2	.2	5						
505	.5	4	.2	7						
506	.5	9	.2	5						
507	.5	8	.3	4						
508	.5	11	.3	6						
509	1.0	9	.3	4						
510	.5	12	.3	4						
511	.5	11	.2	4						
512	1.5	20	.4	5						
513	2.0	3	.8	7						
514	.5	12	.3	6						
515	1.0	8	.3	5						
516	1.0	10	.3	5						
517	.5	8	.3	4						
518	.5	11	.3	4						
519	.5	1	.2	5						
520	1.0	1	.2	5						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 27

Att.M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
521	2.0	64	1.0	9						
522	2.0	9	.3	5						
523	1.5	27	.4	4						
524	1.0	18	.4	5						
525	1.0	23	.4	4						
526	1.0	18	.3	5						
527	.5	8	.2	7						
528	1.0	22	.4	5						
529	1.0	18	.3	5						
530	.5	24	.3	6						
531	1.0	37	.4	4						
532	1.5	13	.4	6						
533	1.5	24	.3	5						
534	1.5	12	.3	6						
535	.5	21	.4	6						
536	.5	25	1.6	6						
537	.5	23	.2	6						
538	1.0	20	.2	5						
539	.5	13	.1	5						
540	1.0	9	.3	5						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 28

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
541	1.5	31	.2	6						
542	2.0	19	.2	6						
543	1.5	10	.2	5						
544	3.0	56	.5	5						
545	.5	4	.1	4						
546	1.0	1	.1	8						
547	1.0	1	.1	5						
548	2.0	1	.3	6						
549	.5	11	.2	4						
550	1.0	5	.1	4						
551	.5	6	.2	5						
552	1.5	48	.3	4						
X 553	1.0	7	.1	4	dummy					
554	1.0	12	.3	6						
555	.5	6	.1	5						
556	.5	4	.2	7						
557	.5	2	.2	5						
558	.5	1	.1	5						
559	2.5	28	.3	6						
560	3.5	37	.4	9						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 29

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
561	1.0	22	.2	8						
562	1.0	6	.3	5						
563	2.5	63	.5	7						
564	.5	12	.1	8						
565	1.0	18	.2	10						
566	1.0	10	.1	6						
567	1.5	31	.4	8						
568	2.0	24	.2	5						
569	1.0	10	.1	7						
570	1.0	22	.2	7						
571	1.0	22	.1	8						
572	1.0	8	.1	10						
573	2.0	5	.1	7						
574	2.0	19	.3	6						
575	1.0	4	.1	6						
576	.5	9	.1	8						
577	2.0	27	.2	12						
578	1.0	8	.1	5						
579	1.5	20	.2	36						
580	.5	2	.1	6						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 30

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
581	1.5	14	.2	5						
582	1.5	36	.2	6						
583	1.0	1	.1	4						
584	1.5	1	.1	7						
585	.5	4	.1	5						
586	.5	13	.2	5						
587	.5	13	.2	6						
588	.5	11	.1	6						
589	.5	10	.1	7						
590	.5	7	.2	9						
591	.5	9	.1	4						
592	.5	9	.1	5						
593	.5	20	.2	5						
594	1.0	14	.1	6						
595	1.5	6	.3	19						
596	2.0	13	.1	6						
597	1.0	50	.3	7						
598	.5	25	.2	6						
X 599	.5	21	.1	6	dummy					
600	1.0	28	.2	8						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 31

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
601	.5	13	.1	9						
602	.5	12	.1	6						
603	.5	10	.1	5						
604	.5	19	.1	7						
605	1.0	45	.3	6						
606	2.5	7	.2	8						
607	1.0	22	.2	9						
608	2.0	58	.3	6						
609	2.5	18	.2	6						
610	1.0	16	.1	7						
611	1.0	5	.1	6						
612	2.0	34	.2	6						
613	1.0	9	.1	9						
614	1.0	53	.4	7						
615	1.5	15	.1	8						
616	1.5	7	.1	8						
617	1.0	7	.1	7						
618	1.0	7	.1	7						
619	5.0	8	.1	8						
620	1.0	19	.2	8						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 32

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
621	2.5	14	.1	7						
622	1.0	8	.1	9						
623	1.0	41	.4	10						
624	2.5	24	.2	6						
625	1.0	15	.1	7						
626	1.0	13	.1	7						
627	2.5	37	.4	6						
628	3.0	25	.3	10						
629	5.0	54	.3	9						
630	1.0	8	.1	10						
631	1.5	12	.1	6						
632	.5	19	.1	6						
633	.5	15	.1	7						
634	.5	12	.1	10						
635	.5	15	.1	8						
636	.5	12	.1	7						
637	.5	18	.1	7						
638	.5	14	.1	9						
639	.5	16	.1	6						
640	.5	13	.1	8						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 33

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
641	.5	14	.1	6						
642	.5	15	.1	7						
643	1.5	12	.1	9						
644	.5	14	.1	10						
645	1.5	11	.1	7						
646	1.0	6	.7	7						
647	1.5	16	.2	12						
648	1.0	20	.3	6						
649	2.0	25	.4	9						
650	1.0	21	.1	7						
X 651	1.0	13	.2	9	dummy					
652	.5	22	.1	8						
653	1.0	14	.3	9						
654	.5	19	.2	9						
655	1.0	31	.3	7						
656	.5	12	.1	9						
657	1.5	30	.3	10						
658	1.0	8	.1	8						
659	1.5	17	.3	8						
660	.5	16	.1	9						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 34

Att.: M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
661	1.0	21	.2	12						
662	1.5	34	.4	8						
663	1.0	24	.2	6						
664	1.0	43	.3	6						
665	2.0	40	.5	12						
666	2.0	33	.4	7						
667	4.0	51	.5	6						
668	3.5	29	.4	7						
669	.5	7	.1	8						
670	2.0	9	.8	8						
671	1.5	6	1.8	6						
672	1.0	7	.1	6						
673	1.5	8	.3	5						
674	2.0	7	.1	6						
675	.5	13	.1	8						
676	.5	16	.3	6						
677	.5	12	.2	8						
678	1.5	10	.1	8						
679	1.0	11	.1	7						
680	2.0	21	.3	7						



ESSO MINERALS,
130 Duchesne,
VAL D'OR, Qué.
J9P 2T2

RÉSULTATS # 1037312 COMMANDE #

PROJET # CARPENTIER DATE: 83-10-25

PAGE 35

Att. M. Bernard Borduas

RÉSULTATS D'ANALYSES/ASSAY REPORT

ÉCHANTILLONS SAMPLES	As	Zn	Ag	Au						
	ppm	ppm	ppm	ppb						
681	2.0	25	.3	8						
682	2.5	24	.2	7						
683	1.0	22	.2	9						
684	1.0	21	.2	9						
685	1.0	27	.3	7						
686	1.0	22	.2	7						
687	1.0	25	.3	10						
688	1.0	26	.2	6						
689	1.0	28	.2	9						
690	2.0	34	.4	11						
691	2.0	17	.2	6						
692	1.0	8	.1	6						
693	5.0	60	.6	7						
694	1.0	8	.1	10						

H. Blais