

# GM 48282

DIAMOND DRILLING PROGRAM, LAC ROULEAU PROPERTY

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Énergie et Ressources  
naturelles

Québec 



**DIAMOND DRILLING PROGRAM**

FALL, 1988

LAC ROULEAU PROPERTY

URBAN TOWNSHIP

Joint venture between  
Falconbridge Ltd. and  
Beaufield Resources Inc.

**Ministère de l'Énergie et des Ressources**

Service de la Géoinformation

Date: 20 AVR 1989

No G.M.: 48282

M. Gabriel  
December, 1988

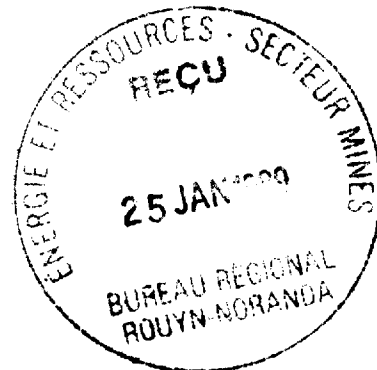


TABLE OF CONTENTS

	Page
Summary .....	1
Introduction .....	2
Property description, location and access .....	2
Recent work .....	2
Alteration .....	5
Mineralization .....	5
Description and results of Diamond Drill Holes ..	5
Conclusions and Recommendations .....	15

TABLES:

Table 1 - Summary of drilling campaign .....	4
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FIGURES:

Figure 1: - Property Location .....	3
Figure 2: - Claim blocks location.....	3A
Figure 3: - Geology map of Lac Rouleau .....	12
Figure 4: - Contours of grade and true width of ore zone .....	13
Figure 5: - Longitudinal of zone 18 .....	14

APPENDICES:

Appendix 1 - Logs of holes 101-89 to 101-103	
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MAPS IN BACK POCKET:

Compilation map of Lac Rouleau - 1:5,000	
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## SUMMARY

This report outlines the results of the latest drill program of October/November 1988.

Falconbridge Ltd. jointly with Beaufield Resources, drilled 15 holes totalling 5,089.3 meters in the Lac Rouleau group in Urban township.

This program concentrated on testing new favorable exploration targets and was unsuccessful in locating any new gold bearing shear zones.

A humus multi-element geochemical survey was completed over a large portion of the Lac Rouleau property. The objectives were to select specific targets and to discriminate potential structures.

Four of the holes totalling 1,492 meters tested zone 18, one returning an assay of 9.11g/t over 2.0m. Two other holes confirmed the extension of the shear zone to 600m east of hole 87-18. In these holes the shear zone was strongly carbonatized and chloritized but mineralization was almost nil (<1%Py). The other nine holes tested other shears interpreted from magnetic survey as well as humus gold anomalies.

Hole 101-89, about 500m south of zone 18 was intended to investigate an inferred structure coincident with a strong magnetic and a humus geochemical anomalies, intersected a mineralized alteration zone with dark quartz veining up to 60% interlayered with sediments. Pyrite, arsenopyrite and pyrrhotite were present up to 4-5%. These values of the zone are low varying from 100 to 450 ppb. These anomalous values may be indicative of more substantial gold concentration along the general stratigraphy. Follow up of this hole is strongly recommended.

## INTRODUCTION:

A diamond drilling program of 5,089.3 meters was completed during October and November of 1988 on the Lac Rouleau property.

The aim of this program was mainly to test new favorable targets from magnetic interpretation together with humus gold anomalies as well as the eastward steeply plunge of zone 18 and its possible east extension.

## PROPERTY DESCRIPTION, LOCATION AND ACCESS:

The Lac Rouleau block is located roughly halfway between Chibougamau and Senneterre (see fig.1). It consists of 33 mining claims covering 528 hectares and it is located in the southeast corner of Urban township. It is at a latitude 40 00 N and longitude 45 40 W.

## RECENT WORK:

From October 19th, 1988 to November 26th, 1988 a diamond drilling campaign was carried out on the Lac Rouleau block.

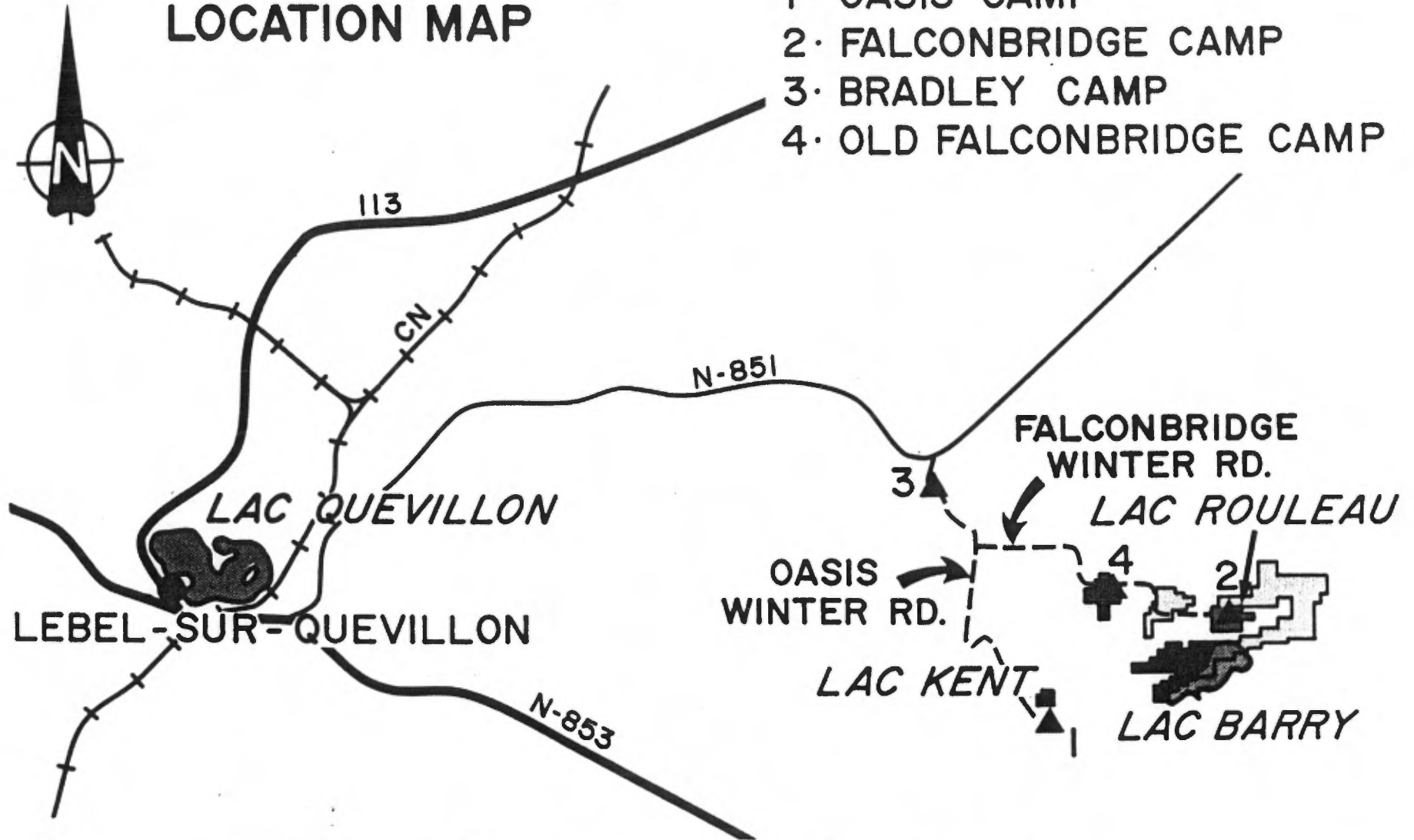
A total of 5,089.3 meters of drilling in 15 drill holes were completed. Four of these holes were drilled on zone 18 for a total of 1492 meters. An updated longitudinal of zone 18 is included.(see figure 3).

Drilling was performed by Bradley Bro. Ltd. of Rouyn-Noranda. The core from the holes is stored at the Falconbridge office in Rouyn. Samples were sent to Chimitec Assay Lab. and analysed for gold by metallic seive.

A summary of the drilling campaign is listed in table 1.

# LAC ROULEAU AREA LOCATION MAP

- 1 · OASIS CAMP
- 2 · FALCONBRIDGE CAMP
- 3 · BRADLEY CAMP
- 4 · OLD FALCONBRIDGE CAMP



DISTANCE FROM QUEVILLON TO CAMP 3 = 95 KM  
DISTANCE FROM CAMP 3 TO 2 = 30 KM  
20 MIN. FLYINGTIME



LAC ROULEAU PROJECT



CARPIQUET TWP.

URBAN TWP.

MACHO DIV.

ROULEAU LAKE

BARRY LAKE

KENT LAKE

BARRY TWP.

TWP.

SOUART

- 1 LAC ROULEAU PROJECT
- 2 NEW CLAIMS BEAUFIELD/FALCONBRIDGE
- 3 KERR-ADDISON
- 4 COMINCO/AGNICO EAGLE J.V.
- 5 FALCONBRIDGE/BEAUFIELD J.V.

**TABLE 1**  
**SUMMARY OF DRILLING CAMPAIGN**

<u>Hole no.</u>	<u>Claim no.</u>	<u>Line</u>	<u>Station</u>	<u>Az.</u>	<u>Dip(<math>^{\circ}</math>)</u>	<u>Depth(m)</u>
101-89	396260-4	165+00E	93+50N	360	-49.5	455.0
101-90	385282-3	24+00E	108+70N	345	-50.0	344.0
101-91	385282-2	18+95E	109+43N	345	-58.0	223.0
101-92	385282-2	19+00E	108+65N	345	-60.0	357.0
101-93	396256-4	166+00E	89+80N	360	-50.0	309.0
101-94	396260-5	170+00E	92+75N	180	-50.0	290.0
101-95	396261-3	165+00E	103+25N	360	-50.0	329.0
101-96	396261-3	168+00E	102+00N	360	-50.0	299.0
101-97	442980-2	159+00E	104+65N	360	-50.0	368.0
101-98	442980-4	167+00E	107+50N	180	-50.0	233.0
101-99	442980-3	162+00E	106+25N	360	-50.0	291.0
101-100	385282-3	22+00E	108+25N	345	-60.0	367.0
101-101	396260-3	163+00E	95+25N	360	-50.0	353.0
101-102	396260-3	21+00E	104+75N	345	-50.0	326.0
101-103	385282-3	21+50E	107+40N	345	-60.0	545.3

TOTAL: 5089.3m



ALTERATION:

In the Lac Rouleau property carbonatization and chloritization are common alterations. Calcite is present in stringers as well as in the matrix, mostly in intermediate to mafic volcanics. Within the shear zone these carbonate stringers are usually associated with fuchsite and/or tourmaline.

Silicification occurred in short and sharply defined sections within the shear zone (zone 18) but in long sections within tuffs interlayered with sediments of holes 101-89, 101-101 and 101-102.

Sericitization occurred, both within shear zone and new mineralized alteration zone, south of zone 18.

MINERALIZATION:

In this program four holes tested zone 18. Two holes tested to the west and one to the east of the zone. These holes intersected the shear as expected but sulphides were found in very small percentages (<1%Py). The fourth hole was intended to intersect the steeply eastward plunge of the zone. Pyrite was found up to 3% within a moderately sericitized and silicified zone. Best value obtained was 9.11g/t over 2.0m.

Two holes were drilled to intersect the extension of zone 18 to the east. These holes confirmed the position of the interpreted extension of the zone. No significant values were although obtained.

About 500m south of the zone 18 a mineralized alteration zone was found in tuffs(?), with dark quartz veining up to 60%, interlayered with silicified sediments. Mineralization increased with increase in quartz veining. Pyrite, arsenopyrite and pyrrhotite were present up to 4-5%. Within the alteration zone, values were anomalous in gold varying from 100 to 450 ppb.

DESCRIPTION AND RESULTS OF DIAMOND DRILL HOLES:

101-89      Line: 165+00E      Station: 93+50N  
                  Azimuth: 360      Dip: -49.5      Depth: 455.0m  
 PURPOSE:    The hole was intended to investigate an

inferred structure where it was coincident with a strong magnetic anomaly as well as humus geochemical anomaly.

RESULT: The hole encountered tuffs(?) (locally sheared) interlayered with silicified sediments, locally with dark gray quartz up to 80%, 2-3% pyrite, 1-2% pyrrhotite and 2-4% arsenopyrite. A gabbro unit intersected from 100.5 to 118.6 meters. The hole ended in graphitic sediments that started at 417.50m.

Results were disappointing, although the values of the mineralized sheared zone were anomalous varying from 100 to 450 ppb. Zones of alteration (mainly silicification and sericitization) appear to be very interesting in this hole. Follow up of these zones are strongly advised.

101-90      Line: 24+00E      Station: 108+70N  
                  Azimuth: 345      Dip: -50      Depth: 344.0m

PURPOSE: This hole was intended to investigate the extension of zone 18 to the east.

RESULT: From bedrock at 4.75m, we encountered basalt, varying from weakly to strongly carbonated to 245.6m, and a shear zone, chloritized, carbonatized with 10-15% quartz-carbonate veinlets and trace pyrite, to 269.95m. The hole ended in lapilli tuff.

The shear zone was intersected as expected but results were not anomalous.

101-91      Line: 18+95E      Station: 109+43N  
                  Azimuth: 345      Dip: -58      Depth: 223.0m

PURPOSE: This hole was intended to intersect the west extension of zone 18 at a vertical depth of 100m.

RESULT: After 2.2m of overburden we went into basalts up to 90.80m. From 2.2m to 36.53m basalt was strongly carbonated while variolitic basalt was intersected to 90.80m. Diorite was then encountered to 120.6m followed by a shear zone, strongly carbonatized and chloritized, to 155.0m. Within this shear zone from 137.10m to 139.4m rock was moderately silicified and brecciated with tr-1% pyrite. The hole ended in lapilli tuff.

The highest value of the zone was 240 ppb.

101-92      Line: 19+00E      Station: 108+65N

            Azimuth: 345      Dip: -60              Depth: 357.0m

PURPOSE: This hole was collared to intersect the zone in the same section as 101-91 but at a vertical depth of 200m

RESULT: The hole encountered 3.0m of overburden, basalts to 219.20m, diorite to 294.60m, sheared zone to 305.27m, sheared sediments moderately silicified with tr-2% pyrite to 314.7m and ended in lapilli tuff.

Within the basalts, which were either variolitic or carbonated, an ultramafic horizon, with 20-30% quartz carbonate veinlets and strongly sericitized, was intersected from 130.9m to 144.4m. The sheared zone was carbonatized, chloritized with 15-20% quartz-carbonate veins and tr-1% pyrite.

The highest value obtained was 4.98 g/t from 229.50m to 230.20m in a locally brecciated, silicified zone with 1-2% pyrite.

101-93      Line: 166+00E      Station: 89+80N

            Azimuth: 360      Dip: -50              Depth: 309.0m

PURPOSE: This hole was drilled in order to intersect an interpreted NW-SE shear as well as three humus gold anomalies of 3 and 4 ppb.

RESULT: The hole was in ash tuff throughout except from 71.3m to 78.86m where a quartz calcite brecciated zone, with less than 1% pyrite, was intersected. This zone could explain the NW-SE interpreted shear. The gold humus anomalies were not explained.

No significant values were obtained.

101-94      Line: 170+00E      Station: 92+75N

            Azimuth: 180      Dip: -50              Depth: 290.0m

PURPOSE: This hole was located to intersect a possible geological contact coinciding with a change in magnetic field.

RESULT: The hole was mainly in crystal tuff with 2-3% magnetite from 113.90m until the end of the hole. Two units of sericitized schist were encountered from 11.30m to 28.48m and 57.30m to 63.90m. The presence of 2-3% magnetite explained the magnetic high, but no major geological contact was observed.

Results of this hole were disappointing.

101-95      Line: 165+00E    Station: 103+25N  
                  Azimuth: 360    Dip: -50            Depth: 329.0m

PURPOSE: This hole was located primarily to explore a magnetic high as well as humus gold anomalies of 3 and 2 ppb.

RESULT:      The hole encountered 32m of overburden, lapilli tuff to 74.0m, quartz feldspar biotite chlorite schist to 148.0m and lapilli tuff to 329.0m. The unit of schist was magnetic from 92.4m to 114.0m and from 116.0m to 126.5m which explained the magnetic high.  
                  Trace values in gold were obtained.

101-96      Line: 168+00E    Station: 102+00N  
                  Azimuth: 360    Dip: -50            Depth: 299.0m

PURPOSE: This hole was drilled in order to intersect a possible east extension of zone 18.

RESULT: After 19.0m of overburden, the hole intersected lapilli tuff to 67.80m, basalt to 212.6m, a sheared zone to 257.0m and a quartz chlorite sericite k-spar magnetite schist to the end of the hole.  
                  The sheared zone, which was intersected where expected. It was moderately to strongly carbonatized and chloritized, with 10-15% quartz-carbonate veins, trace pyrite and locally sericitized.  
                  Values of this zone were discouraging.

101-97      Line: 159+00E    Station: 104+65N  
                  Azimuth: 360    Dip: -50            Depth: 368.0m

PURPOSE: The hole was intended to intersect a NE-SW interpreted structure with a coinciding humus gold anomaly of 3ppb as well as another one of 5ppb near the beginning of the hole.

RESULT: The hole encountered 16.0m of overburden followed by chloritized felsic schist to 75.3m, lapilli tuff to 342.0m and basalt to 368.0m.

Nothing was intersected in the hole to explain the NE-SW structure. Trace values in gold were obtained.

101-98 Line: 167+00E Station: 107+50N

Azimuth: 180 Dip: -50 Depth: 233.0m

PURPOSE: This hole was located to test a SE-NW trending structure as well as a magnetic high.

RESULT: After 6.8m of overburden, the hole was in basalt until 147.77m and then in lapilli tuff. Rock was magnetic from 107.0m to 133.0m. A small shear zone was intersected from 111.9m to 121.0m. The SE-NW structure was explained by the basalt-tuff contact.

No significant values were obtained.

101-99 Line: 162+00E Station: 106+25N

Azimuth: 360 Dip: -50 Depth: 291.0m

PURPOSE: This hole was located in an attempt to pick up two interpreted structures trending ENE-ESE as well as a magnetic high.

RESULT: The hole encountered overburden to 7.0m, lapilli tuff to 132.6m, basalt to 167.0m, back into lapilli tuff to 264.8m and ended in felsic porphyry. The ENE structure was not explained, although the ESE structure was explained by the geological contact between basalt and lapilli tuff. The magnetic high was explained by the presence of magnetite in both basalt and lapilli tuff.

No significant values were obtained.

101-100 Line: 22+00E Station: 108+25N

Azimuth: 345 Dip: -60 Depth: 367.0m

PURPOSE: This hole was intended to test zone 18 at a vertical depth of 250m.

RESULT: The hole intersected basalts to 264.84m varying from variolitic to carbonated. The ultramafic horizon was encountered from 212.0m to 254.0m. It intersected then two shear zones to 339.9m separated by sheared carbonated basalt from 272.85m to 314.0m. The hole

ended in lapilli tuff.

In the second shear the following values were obtained:

- a) 5.35g/t over 1.3m near a siliceous, brecciated zone with 1% pyrite
- b) 1.66g/t over 3.0m in a moderately sericitized and silicified zone with 1-2% pyrite
- c) 2.36g/t over 0.24m in a quartz-tourmaline vein with 1-2% pyrite.

101-101      Line: 163+00E      Station: 95+25N

                Azimuth: 360      Dip: -50                  Depth: 353.0m

PURPOSE: This hole was located to intersect an I.P. conductor, a magnetic high, a humus gold anomaly of 6 and 4ppb and also to follow up the silicified, brecciated zones intersected in 101-89.

RESULT: The hole was in silicified sediments and tuffs(?) to 183.70m, in crystal tuff to 236.20m and ended basalt. Numerous brecciated zones with 1-2% pyrite and black quartz, were encountered in the silicified sediments. The magnetic high was explained by the presence of pyrrhotite within the basalt.

Values obtained in gold were discouraging.

101-102      Line: 21+00E      Station: 104+75N

                Azimuth: 345      Dip: -50                  Depth: 326.0m

PURPOSE: This hole was intended to intersect humus gold anomalies of 6, 5 and 3ppb coinciding with the zones of black quartz of 101-101.

RESULT: The hole encountered overburden to 4.10m, silicified sediments to 90.70m, graphitic silicified sediments to 111.0m, tuff(?) to 175.0m, graphitic sediments to 242.95m, carbonated basalt to 295.10m, diorite to 307.30m and carbonated basalt to 326.0m. Five percent of brecciated zones with black quartz up 80% and 2-3% pyrite were intersected in the silicified sediments.

No significant values were obtained.

101-103      Line: 21+50E      Station: 107+40N

                Azimuth: 345      Dip: -60                  Depth: 506.0m

PURPOSE: This hole was intended to investigate zone 18, on section 2150E, at a vertical depth of 400m.

RESULT: After 4m of overburden, the hole encountered basalts, varying from variolitic to weakly to moderately sheared, to 462.68m, sediments locally silicified to 476.31m and a shear zone, locally sericitized, brecciated, silicified with 1-3% pyrite, to 506.0m

Rods seized at this depth; hole was blasted and a wedge was inserted at 497.0m (see hole 101-103-A).

Best value obtained in the shear was a 3.00g/t over 1.13m near a brecciated, silicified zone with 1% pyrite.

101-103-A Line: 21+50E Station: 107+40N

Azimuth: 345 Dip: -54.5 Depth: 545.3m

PURPOSE: Same as 101-103. Continuation of hole 101-103 from depth where it was wedged (497.0m).

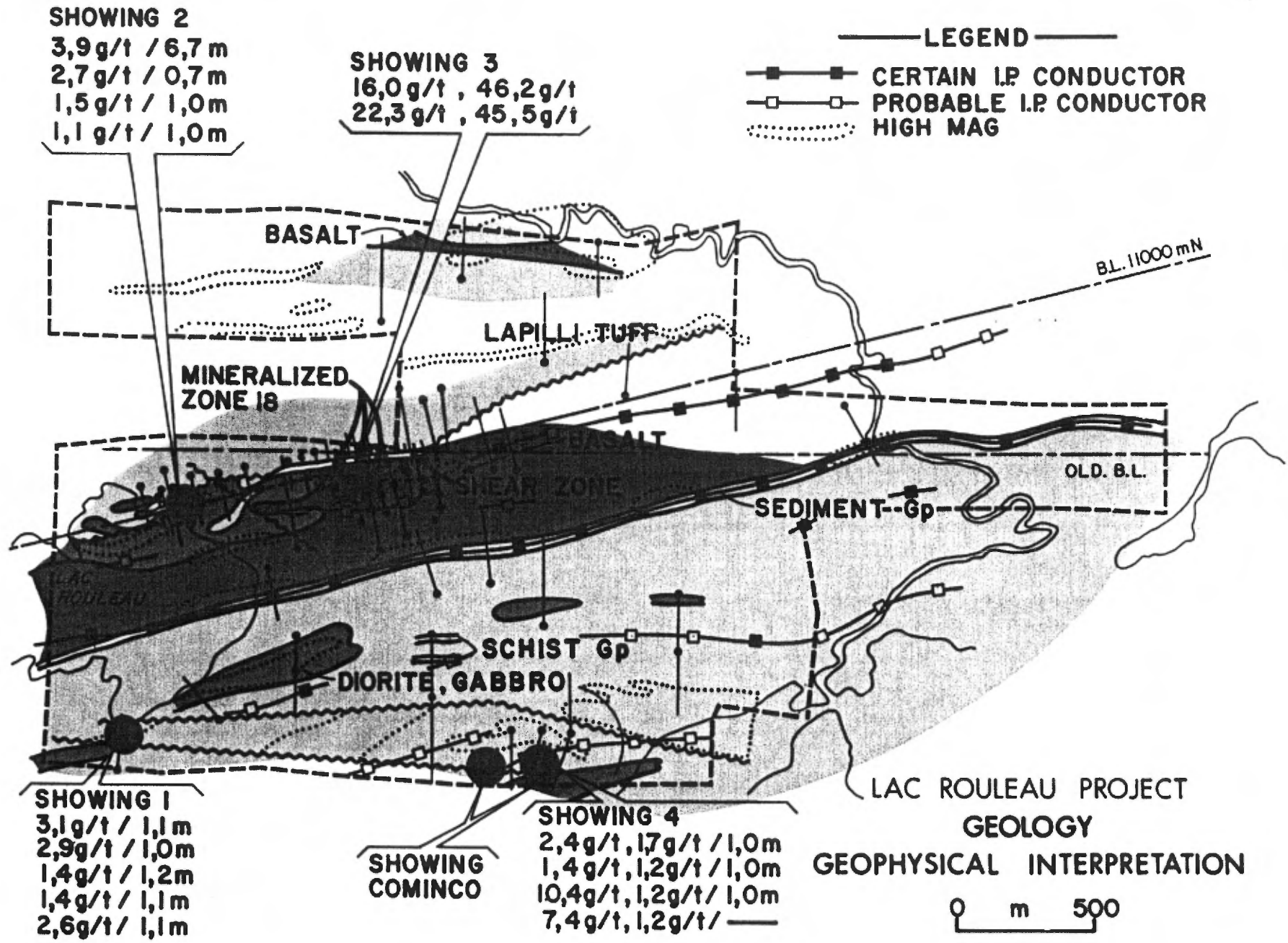
RESULT: As expected the hole started in the shear zone which ended at 522.0m and ended in lapilli tuffs. The shear zone was locally silicified, brecciated, with pyrite up to 2%.

The best values obtained in the zone were:

a) 2.14g/t from 507.0m to 508.0m in a weakly to moderately silicified and sericitized zone with 1-2% pyrite.

b) 1.58g/t in the same zone as above from 510.0m to 511.0m.

c) 14.93g/t and 3.87g/t from 512.0m to 514.0m in the same zone as above (average of 9.40g/t over 2.0m)



**SHOWING 2**  
 3,9g/t / 6,7m  
 2,7g/t / 0,7m  
 1,5g/t / 1,0m  
 1,1g/t / 1,0m

**SHOWING 3**  
 16,0g/t , 46,2g/t  
 22,3g/t , 45,5g/t

**LEGEND**  
 ■—■ CERTAIN I.P. CONDUCTOR  
 □—□ PROBABLE I.P. CONDUCTOR  
 ..... HIGH MAG

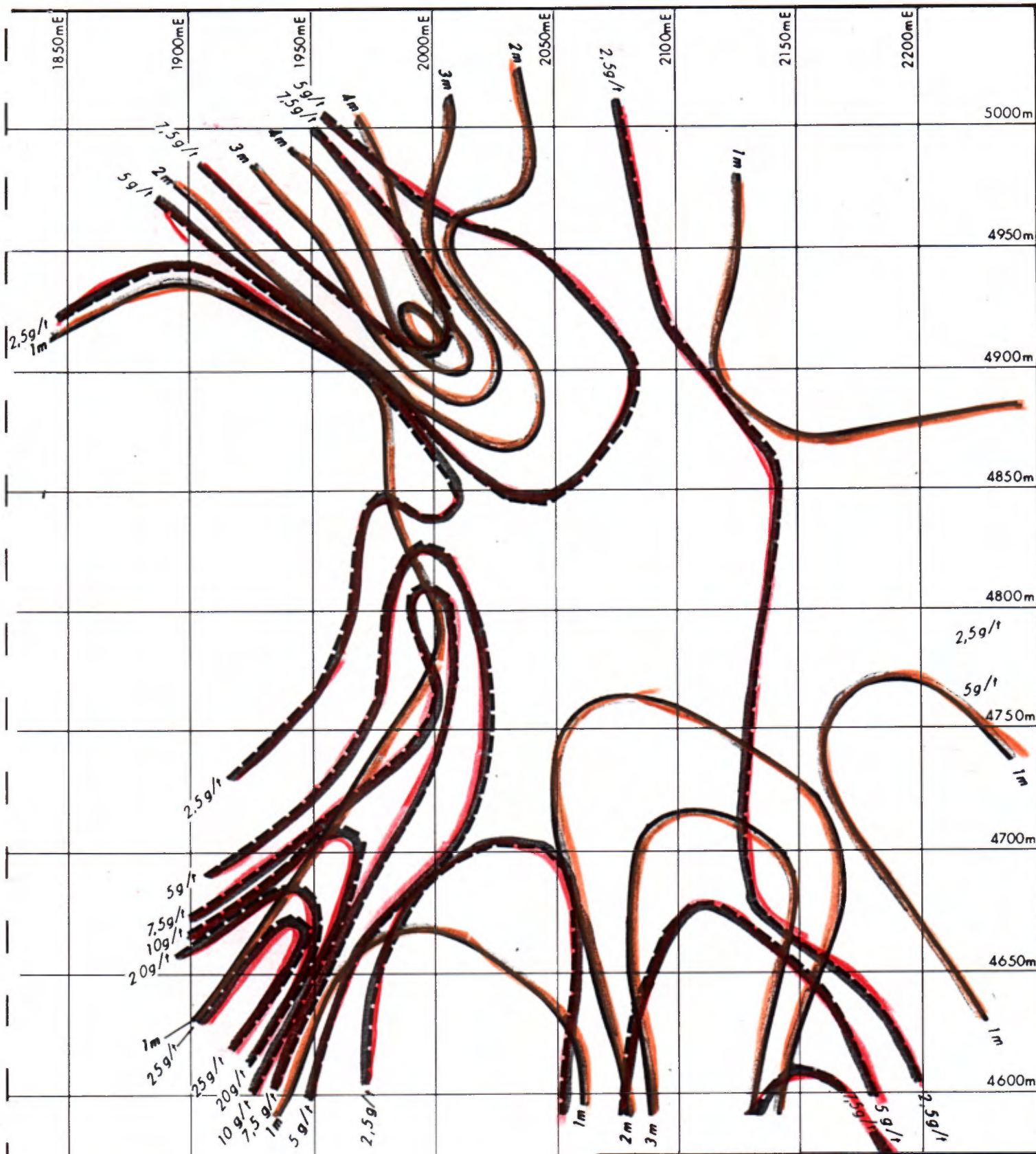
**SHOWING 1**  
 3,1g/t / 1,1m  
 2,9g/t / 1,0m  
 1,4g/t / 1,2m  
 1,4g/t / 1,1m  
 2,6g/t / 1,1m


**SHOWING COMINCO**


**SHOWING 4**  
 2,4g/t, 1,7g/t / 1,0m  
 1,4g/t, 1,2g/t / 1,0m  
 10,4g/t, 1,2g/t / 1,0m  
 7,4g/t, 1,2g/t / —

LAC ROULEAU PROJECT  
**GEOLOGY**  
**GEOPHYSICAL INTERPRETATION**  
 0 m 500

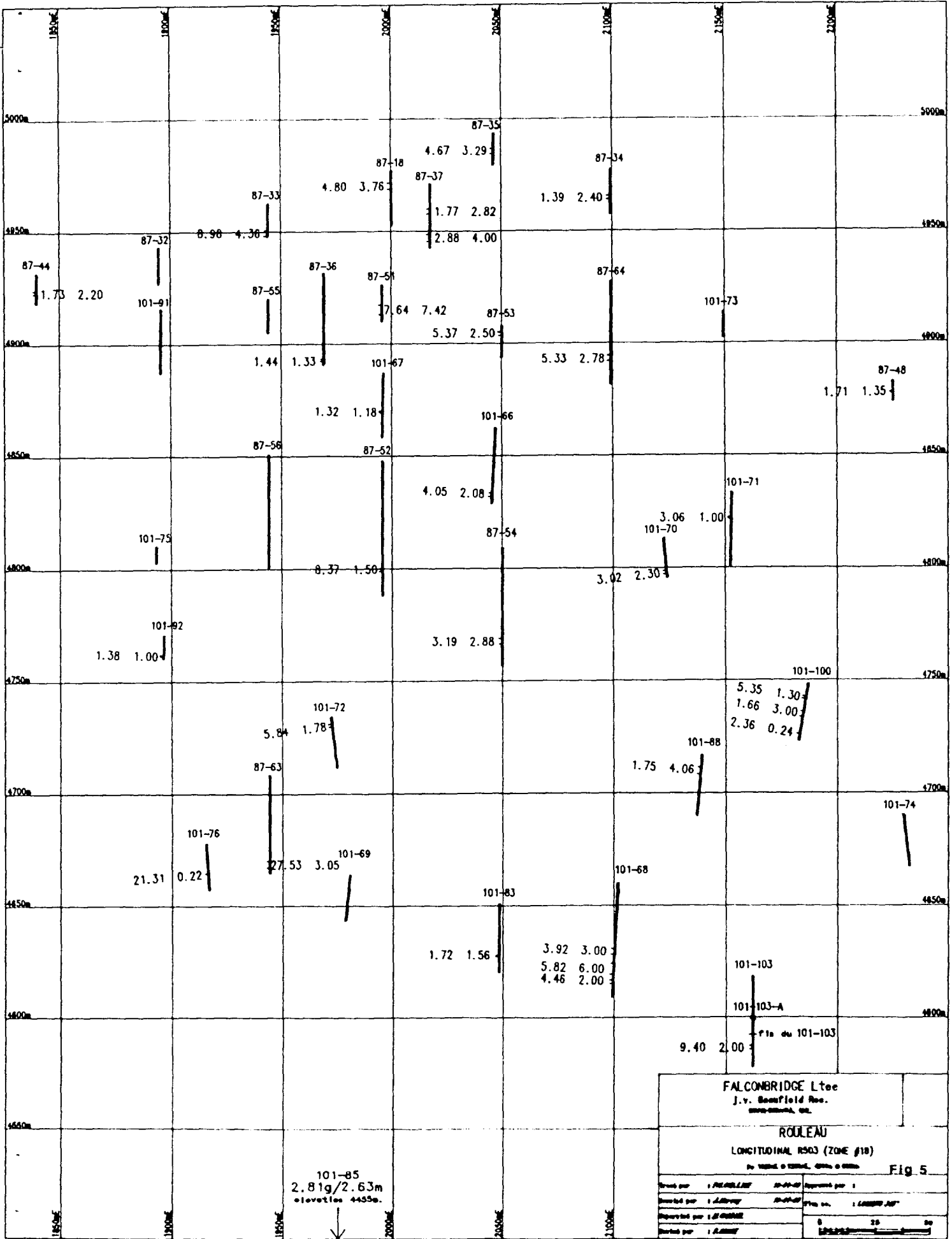





 GRADE OF ORE OF ZONE g/t  
 TRUE WIDTH OF ORE ZONE IN METERS

<b>FALCONBRIDGE LTD/LTEE</b> <b>LAC ROULEAU PROJECT</b> <b>VERTICAL LONGITUDINAL SECTION ZONE 18</b> R-503 PN-106 NTS: 32 6/4			
Traced by:	Date:	Revised by:	Date:
Supervised by:	C.S. Bruce		M. Gabriel 01/1989
Drawn by:	GEODES inc. 06/1988		Scale 0 25 50m 





### CONCLUSIONS AND RECOMMENDATIONS:

The diamond drilling program was unsuccessful in locating any new gold bearing structures, but it located a new altered mineralized zone.

The following can be concluded from the program:

1) the steeply plunge to the east of the zone was confirmed with hole 101-103, and returned 9.40g/t over 2.0m.

2) the east extension of zone 18 was intersected where it had been located.

3) a strong mineralized alteration zone was located at about 500m south of zone 18 with hole 101-89.

Alteration zone of 101-89 returned anomalous values and may be indicative of more substantial gold concentration along this general stratigraphy.

It is recommended:

1) more drilling between holes 101-90 and 101-96 which are 500m apart and had both intersected the shear zone.

2) more drilling east of 101-96 in order to determine the extention of the zone further to the east.

3) further drilling is warranted as follow up to the structure intersected in hole 101-89.

**APPENDIX 1**

FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-89      Zone no:      Contracteur: Brabley Brothers Ltd.      Débuté le: 22/10/1988  
 Canton: URBAN      Rang:      Claim no:396260-4      Terminé le: 29/10/1988  
 Lot :

Niveau :      Section:      Lieu de travail: Surface

Coordonnées au collet :      Ligne : 165+00 E      Latitude: 49395.00 N      Azimut: 360° 0' 0"  
 Station: 93+50 N      Longitude: 50622.00 E      Inclinaison: -49°30' 0"  
 Système de référence:      Elévation: 5003.00      Longueur: 455.00 M

Arpenté par:

Tests de déviation :

Profondeur	Inclinaison	Az Corrigé
20.00 M	-48°30' 0"	357°30' 0"
50.00 M	-47°45' 0"	358°30' 0"
80.00 M	-47° 0' 0"	359° 0' 0"
110.00 M	-43°45' 0"	359°30' 0"
140.00 M	-42° 0' 0"	359°30' 0"
170.00 M	-40° 0' 0"	358°30' 0"
200.00 M	-38°30' 0"	0°30' 0"
230.00 M	-36° 0' 0"	1°30' 0"
260.00 M	-32°45' 0"	2° 0' 0"
290.00 M	-30° 0' 0"	1°30' 0"
320.00 M	-26° 0' 0"	357°30' 0"
350.00 M	-24° 0' 0"	1°30' 0"
380.00 M	-22° 0' 0"	1°30' 0"
392.00 M	-21° 0' 0"	1°30' 0"
419.00 M	-20° 0' 0"	

Remarques : Casing left in the hole. Approximate coordinates.  
 Target:Black qtz in V9 and humus anomaly.

Débit d'eau:  
 Cimenté :

Bouchon:  
 Dimension de la carotte: B.Q.











NU GEOCHEMISTRY

Diamond Drill Hole no: 101-89

Township: URBAN

Log Summary			Geochemistry Sample				
Location (m) From	To	Rock type	Sample no.	Location (m) From	To	Au (ppb)	Remarks
0	6.9	Overburden					
6.9	69.30	XI/lap tuff	101-89-1	6.9	18.3	<5	
69.3	77.70	Graphitic Schist	101-89-2	18.3	29.9	<5	
77.7	100.50	XI/lash tuff	101-89-3	29.9	41.6	<5	
100.50	118.60	Gabbro	101-89-4	41.6	58.0	<5	
118.60	176.10	Ash tuff	101-89-5	58.0	69.3	<5	
176.10	190.10	XII/lash tuff matrix	101-89-6	77.7	100.5	<5	
190.10	195.30	Zone B, C	101-89-7	100.5	115.1	<5	
195.3	218.30	Sericite Schist	101-89-8	115.1	118.6	<5	
218.30	264.70	XI/lash tuff int.	101-89-9	118.6	125.0	<5	
264.70	287.0	Silicified seds	101-89-10	149.0	160.1	<5	
287.0	304.0	XI/lap tuff	101-89-11	160.1	175.0	<5	
304.0	336.5	Silicified seds	101-89-12	195.3	204.5	<5	
336.5	349.7	Silicified zone	101-89-13	204.5	214.2	<5	
349.7	357.4	lap tuff	101-89-14	214.2	218.3	<5	
357.4	365.0	Silicified A zone	101-89-15	218.3	229.4	<5	
365.0	375.4	Silicified tuff	101-89-16	229.4	236.9	45	
375.4	386.0	XI/lap tuff	101-89-17	402.0	417.5	<5	
386.0	392.0	Graphitic Seds	101-89-18	417.5	425.0	5	
392.0	417.5	lap tuff	101-89-19	434.0	447.7	<5	
417.5	455.0	Graphitic Seds	101-89-20	447.2	455.0	<5	
End of hole : 455.0 m							

FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-90      Zone no: ZONE 18      Contracteur: Bradley Brothers Ltd.      Débuté le: 22/10/1988  
 Canton : URBAN      Rang :      Claim no:385282-3      Terminé le: 25/10/1988  
 Lot :      Niveau :      Section: 2400E      Lieu de travail: Surface  
 Coordonnées au collet :      Ligne : 24+00 E      Latitude: 49978.00 M      Azimut: 345° 0' 0"  
 Station: 108+70 M      Longitude: 50423.00 E      Inclinaison: -50° 0' 0"  
 Système de référence:      Elévation: 5003.00      Longueur: 344.00 M

Arpenté par:

Tests de déviation :

Profondeur	Inclinaison	Az Corrigé
4.00 M	-49°30' 0"	
50.00 M	-48° 0' 0"	
100.00 M	-46° 0' 0"	
150.00 M	-43° 0' 0"	
200.00 M	-35°30' 0"	
250.00 M	-28° 0' 0"	
308.00 M	-28° 0' 0"	
344.00 M	-25° 0' 0"	

Remarques : Casing left in the hole; approximate coordinates;  
 Target: east extension of zone 18; no multi-shot

Débit d'eau:  
 Cimenté :

Bouchon:  
 Dimension de la carotte: B.Q.



DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au (g/t)	Au <sub>1</sub> (g/t)			
		Mafic dyke, dark gray, aphanitic, strongly magnetic, tr-1% cubic pyrite	011032	94.86	96.00	1.14	tr				
			011033	96.00	97.50	1.50	tr				
			011034	97.50	99.00	1.50	.10				
			011035	99.00	100.00	1.00	tr				
			011036	100.00	101.00	1.00	tr				
			011037	101.00	102.00	1.00	.04				
			011038	102.00	103.00	1.00	.02				
			011039	103.00	104.00	1.00	.01				
			011040	104.00	105.50	1.50	.02				
		105.50- 114.85 moderately carbonated basalt; same as 4.75 to 78.8									
			011041	114.85	116.00	1.15	.05				
			011042	116.00	117.00	1.00	.05				
			011043	117.00	118.00	1.00	tr				
			011044	118.00	119.00	1.00	tr				
			011045	119.00	120.00	1.00	tr				
			011046	120.00	121.00	1.00	tr				
			011047	121.00	122.00	1.00	tr				
			011048	122.00	123.00	1.00	tr				
			011049	123.00	124.00	1.00	tr				
			011050	124.00	125.00	1.00	tr				
			011051	125.00	126.00	1.00	.02				
			011052	126.00	127.00	1.00	tr				
			011053	127.00	128.00	1.00	tr				
			011054	128.00	129.00	1.00	tr				
			011055	129.00	130.00	1.00	tr				
			011056	130.00	131.00	1.00	tr				
			011057	131.00	132.40	1.40	tr				
		132.40- 133.50 brecciated, 20% quartz veins (white), 2-3% fine pyrite	011058	132.40	133.50	1.10	.07				
			011059	133.50	135.00	1.50	.06				
			011060	135.00	136.00	1.00	tr				
			011061	136.00	137.00	1.00	tr				
			011062	137.00	138.00	1.00	tr				
			011063	138.00	139.00	1.00	tr				
			011064	139.00	140.00	1.00	tr				
			011065	140.00	141.00	1.00	tr				
			011066	141.00	142.00	1.00	.01				
			011067	142.00	143.00	1.00	tr				
			011068	143.00	143.70	0.70	tr				
.43.70	245.60	BASALT: Greenish gray, aphanitic, 5-10% quartz-carbonate veins; weakly sheared; trace pyrite, chloritized									
		143.70- 200.00 weakly sheared at 45C.A.									
		154.00- 156.50 strongly magnetic, 5% magnetite up to 4mm									
		162.75- 164.10 strongly magnetic	011069	162.75	164.10	1.35	tr				
		203.00- 204.50 60% of quartz patches +/- fuschite trace pyrite	011070	203.00	204.50	1.50	tr				



NU GEOCHEMISTRY

Diamond Drill Hole no: 101-90

Township: URBAN

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
0	4.75	Overburden					
4.75	78.80	Mod. Caeb. Basalt	101-90-1	4.75	21.9	<S	
			101-90-2	21.9	34.5	<S	
			101-90-3	43.0	56.6	40	
			101-90-4	56.6	78.8	<S	
78.8	143.7	Stray Caeb. Basalt	101-90-5	105.5	114.85	<S	
143.7	245.6	Basalt	101-90-6	143.7	155.9	<S	
245.6	269.95	Sheared zone	101-90-7	155.9	166.9	<S	
269.95	344.0	Ash/Clap Tuff	101-90-8	166.9	178.3	<S	
			101-90-9	178.3	189.0	<S	
			101-90-10	189.0	201.0	<S	
			101-90-11	201.0	212.0	<S	
			101-90-12	218.0	232.0	<S	
			101-90-13	232.0	242.1	<S	
			101-90-14	242.1	245.6	<S	
			101-90-15	269.95	282.8	<S	
			101-90-16	282.8	300.4	<S	
			101-90-17	300.4	311.9	<S	
			101-90-18	311.9	323.5	<S	
			101-90-19	323.5	335.2	<S	
			101-90-20	335.2	344.0	<S	
End of hole : 344 m							

FALCONBRIDGE LTEE  
JOURNAL DE SONDAGE  
Propriété: ROULEAU

Trou no: 101-91      Zone no: #18      Contracteur: Bradley Brothers Ltd.      Débuté le: 26/10/1988  
Canton : URBAN  
Lot :      Rang :      Claim no:385282-2      Terminé le: 29/10/1988

Niveau :      Section:      Lieu de travail: Surface  
Coordonnées au collet :      Ligne : 18+95 E      Latitude: 49918.75 N      Azimut: 345° 0' 0"  
   Station: 109+43 N      Longitude: 49912.77 E      Inclinaison: -58° 0' 0"  
Système de référence:      Elévation: 5011.78      Longueur: 223.00 M

Arpenté par: J.L.CORRIVEAU

Tests de déviation :

Profondeur	Inclinaison	Az Corrigé
20.00 M	-56° 0' 0"	345°30' 0"
50.00 M	-56° 0' 0"	348° 0' 0"
80.00 M	-52° 0' 0"	345°30' 0"
110.00 M	-49°30' 0"	344°30' 0"
140.00 M	-48° 0' 0"	344°30' 0"
170.00 M	-47° 0' 0"	344°30' 0"
200.00 M	-45° 0' 0"	344°30' 0"

Remarques : Casing left in the hole.  
Target: west extension of zone 18

Débit d'eau:  
Cimenté :

Bouchon:  
Dimension de la carotte: B.O.





DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au (g/t)	Au <sub>2</sub> (g/t)			
		75.0, 5% gray quartz stringers, trace to 1% pyrite, strongly sericitized and silicified									
90.80	120.60	DIORITE: Mottled beige, dark gray and green, medium grained, mafics:felsics-6:4, mostly massive, tr pyrite throughout, 1-3% quartz-carbonate veinlets, non magnetic									
		90.80- 100.00 weakly sheared at 40AC									
120.60	155.00	SHEARED ZONE: strongly sheared at 50-45CA, strongly carbonatized and chloritized, upper contact sericitized, 10-15% quartz-carbonate veinlets of irregular contacts, trace pyrite	011110	120.60	122.00	1.40	tr				
			011111	122.00	123.00	1.00	.02				
			011112	123.00	124.00	1.00	.02				
			011113	124.00	125.00	1.00	tr				
			011114	125.00	126.00	1.00	tr				
			011115	126.00	127.00	1.00	.04				
			011116	127.00	128.00	1.00	tr				
			011117	128.00	129.00	1.00	.10				
			011118	129.00	130.00	1.00	tr				
			011119	130.00	131.00	1.00	tr				
			011120	131.00	132.00	1.00	tr				
			011121	132.00	133.00	1.00	tr				
			011122	133.00	134.00	1.00	.01				
			011123	134.00	135.00	1.00	tr				
			011124	135.00	136.00	1.00	tr				
			011125	136.00	137.10	1.10	tr				
		137.10- 139.40 moderately silicified, brecciated, tr-1% pyrite, moderately sheared, at 45 C.A.	011126	137.10	138.50	1.40	.07				
			011127	138.50	139.40	0.90	.24				
			011128	139.40	140.00	0.60	tr				
			011129	140.00	141.00	1.00	tr				
			011130	141.00	142.00	1.00	tr				
			011131	142.00	143.00	1.00	.01				
			011132	143.00	144.00	1.00	tr				
			011133	144.00	145.00	1.00	tr				
			011134	145.00	146.00	1.00	tr				
			011135	146.00	147.00	1.00	tr				
			011136	147.00	148.00	1.00	.03				
			011137	148.00	149.00	1.00	.05				
		149.00- 155.00 moderately to strongly sericitized and sheared at 45 C.A.	011138	149.00	150.00	1.00	tr				
			011139	150.00	151.00	1.00	tr				
			011140	151.00	152.00	1.00	.01				
			011141	152.00	153.00	1.00	tr				
			011142	153.00	154.00	1.00	.17				
			011143	154.00	155.00	1.00	tr				
55.00	223.00	LAPILLI TUFF: greenish gray, strongly to moderately sheared at 45 C.A., lapilli of felsic composition stretched along schistosity, tr pyrite									
		155.00- 191.00 strongly to moderately sheared at 45 C.A.	011144	155.00	156.00	1.00	.01				
			011145	156.00	157.00	1.00	.03				
			011146	157.00	158.00	1.00	.01				
			011147	158.00	159.00	1.00	.15				
			011148	159.00	160.00	1.00	tr				
			011149	160.00	161.00	1.00	.02				
			011150	161.00	162.00	1.00	tr				
			011151	162.00	163.00	1.00	.02				
			011152	163.00	164.00	1.00	.05				



NU GEOCHEMISTRY

Unconsolidated Drill Hole no: 101-91

Township: URBAN

Log Summary			Geochemistry Sample					
<u>Location (m)</u> From To		<u>Rock type</u>	<u>Sample no.</u>	<u>Location (m)</u> From To		<u>Au (ppb)</u>	<u>Remarks</u>	
0	2.2	Overburden	101-91-1	2.2	13.8	<5		
2.2	36.57	Vf carbonated	101-91-2	13.8	25.4	<5		
36.53	90.8	Volcanitic Basalt	101-91-3	25.4	36.53	5		
90.8	120.6	Diorite	101-91-4	36.53	49.2	10		
120.6	155.0	Zone #	101-91-5	77.0	90.8	<5		
155.0	223.0	Vg lap	101-91-6	90.8	107.3	20		
			101-91-7	107.3	120.6	<5		
			101-91-8	164.0	176.4	20		
			101-91-9	176.4	188.3	50		
			101-91-10	188.3	199.6	240		
			101-91-11	199.6	211.0	15		
			101-91-12	211.0	223.0	20		
		End of hole 223.0						

FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-92      Zone no: ZONE 18      Contracteur: Bradley Brothers Ltd.      Débuté le: 29/10/1988  
 Categorie: URBAN      Rang:      Claim no: 385282-2      Terminé le: 2/11/1988

Niveau:      Section:      Lieu de travail: Surface

Coordonnées au collet :      Ligne : 19+00 E      Latitude: 49844.50 N      Azimut: 345° 0' 0"  
 Station: 108+65 N      Longitude: 49937.50 E      Inclinaison: -60° 0' 0"  
 Système de référence:      Elévation: 5009.00      Longueur: 357.00 M

Arpenté par: J.L.CORRIVEAU

Tests de déviation :

Profondeur	Inclinaison	Az Corrigé
20.00 M	-60° 0' 0"	348° 0' 0"
50.00 M	-59° 30' 0"	347° 30' 0"
80.00 M	-57° 0' 0"	344° 30' 0"
110.00 M	-56° 0' 0"	344° 0' 0"
140.00 M	-55° 0' 0"	344° 0' 0"
170.00 M	-53° 30' 0"	344° 0' 0"
200.00 M	-52° 30' 0"	343° 0' 0"
230.00 M	-51° 0' 0"	342° 30' 0"
260.00 M	-50° 0' 0"	342° 30' 0"
290.00 M	-46° 0' 0"	343° 0' 0"
320.00 M	-42° 30' 0"	343° 30' 0"

Remarques : Casing left in the hole. Target: west extention of zone 18

Débit d'eau:  
 Cimenté :

Bouchon:  
 Dimension de la carotte: 8.Q.

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au (g/t)	Au, (g/t)			
0.00	3.00	OVERBURDEN									
3.00	49.60	VARIOLITIC BASALT: massive, green, varioles well preserved, 3-5% quartz-carbonate-epidote veinlets, trace pyrite throughout  45.10- 49.60 weakly sheared at 50 C.A.									
7.60	130.90	CARBONATED BASALT: mostly massive, greenish gray mottled white, fine grained, mafics:felsics = 6:4, 3-5% of quartz-carbonate veinlets, moderately carbonatized.  83.86- 85.60 zone rich in Fe carbonate  89.80- 92.80 Felsic dyke, brownish gray, 1-2% pyrite, siliceous, non-magnetic  92.80- 130.90 5-10% quartz carbonate veinlets, weakly sheared at 40 CA	011154	83.86	85.60	1.74	.01				
			011155	89.80	91.00	1.20	.29				
			011156	91.00	92.00	1.00	.03				
			011157	92.00	92.80	0.80	.12				
130.90	144.40	ULTRAMAFIC HORIZON: Greenish gray, moderately sheared at 30-35 C.A., 20-30% quartz-carbonate veinlets, strongly sericitized, rich in talc, non magnetic									
144.40	219.20	VARIOLITIC BASALT: grayish green, massive, varioles well developed, chloritized, 1-3% quartz-carbonate veins  144.40- 149.00 moderately magnetic  183.40- 189.73 40% quartz-carbonate veinlets, brecciated, +/- tourmaline and/or fuschite, tr-1% coarse pyrite  204.90- 219.20 weakly sheared at 35 C.A.	011158	183.40	185.00	1.60	tr				
			011159	185.00	186.00	1.00	tr				
			011160	186.00	187.00	1.00	tr				
			011161	187.00	188.00	1.00	.01				
			011162	188.00	189.00	1.00	tr				
			011163	189.00	189.73	0.73	tr				
21.20	294.60	DIORITE: greenish gray, mostly massive, medium grained, mafics:felsics = 6:4, carbonatized, non-magnetic, 1-3% quartz carbonate veinlets  229.50- 230.20 Graphitic sediments, dark gray, aphanitic, locally brecciated and also sheared at 35 C.A., siliceous 1-2% pyrite  231.60- 237.10 weakly sheared at 38 C.A.	011164	228.50	229.50	1.00	tr				
			011165	229.50	230.20	0.70	4.98	4.98			
			011166	230.20	231.00	0.80	.24				
			011167	231.00	231.60	0.60	tr				
			011168	231.60	233.00	1.40	tr				
			011169	233.00	234.00	1.00	.02				



NU GEOCHEMISTRY

Diamond Drill Hole no: 101-92

Township: URBAN

Log Summary			Geochemistry Sample				
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
0	3.0	Overburden	101-92-1	3.0	14.8	5	
3.0	49.6	Andesitic Basalt	101-92-2	14.8	25.2	5	
			101-92-3	25.2	36.5	5	
			101-92-4	36.5	49.6	10	
49.6	130.9	Carbonated Basalt	101-92-5	49.6	64.9	5	
			101-92-6	64.9	76.7	10	
			101-92-7	76.7	89.8	<5	
			101-92-8	92.8	106.0	<5	
			101-92-9	106.0	117.6	<5	
			101-92-10	117.6	130.9	<5	
130.9	144.4	Ultramafic horizon	101-92-11	130.9	144.4	<5	
144.4	219.2	Andesitic Basalt	101-92-12	144.4	157.9	<5	
			101-92-13	157.9	169.5	<5	
			101-92-14	169.5	183.4	<5	
			101-92-15	189.73	204.3	<5	
			101-92-16	204.3	219.2	5	
219.2	294.6	Diorite	101-92-17	219.2	228.5	50	
			101-92-18	237.1	250.5	<5	
			101-92-19	250.5	262.3	<5	
			101-92-20	262.3	273.8	10	
273.8	305.27	Sheared Zone	101-92-21	273.8	282.2	<5	
305.27	314.70	Sheared Sediments	101-92-22	285.5	294.6	<5	
314.70	357.0	Lapilli tuff	101-92-23	333.0	344.0	20	
			101-92-24	344.0	357.0	15	



FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-93	Zone no:	Contracteur: Bradley Brothers Ltd.	Débuté le: 30/10/1988
Anton: URBAN			Terminé le: 2/11/1988
xt :	Rang :	Claim no: 396256-4	
Niveau :	Section:	Lieu de travail: Surface	
Coordonnées au collet :	Ligne : 166+00 E	Latitude: 49006.00 N	Azîmut: 360° 0' 0"
	Station: 89+80 M	Longitude: 50716.00 E	Inclinaison: -50° 0' 0"
Système de référence:		Élévation: 5000.00	Longueur: 309.00 M
Arpenté par:			
Tests de déviation :	Profondeur	Inclinaison	Az Corrigé
	4.00 M	-50° 0' 0"	
	75.00 M	-48° 30' 0"	
	150.00 M	-48° 30' 0"	
	225.00 M	-46° 0' 0"	
	300.00 M	-44° 0' 0"	
Remarques : Casing left in hole. Target: geochem anomaly (Au humus), NW-SE shear.			
	Débit d'eau:	Bouchon: No	
	Cimenté : No	Dimension de la carotte: B.O.	







AN GEOCHEMISTRY

Diamond Drill Hole no: 101-93

Township: Lac Rouleau

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
0	71.30	Ash Tuff	101-93-1	4	9m	<5	
		(or Carbonatized Basalt?)	101-93-2	9	12.41	<5	
			101-93-3	12.98	15	<5	
			101-93-4	15	18	<5	
71.30	78.86	Qtz-ca Breccia	101-93-5	18	21	<5	
			101-93-6	21	24	<5	
78.86	309.0	Ash Tuff	101-93-7	24	27	<5	
		(Carbonatized Basalt?)	101-93-8	27	31.59	<5	
	(EOH)		101-93-9	41.52	45	<5	
			101-93-10	45	48	<5	
			101-93-11	48	51	<5	
			101-93-12	51	54	<5	
			101-93-13	54	57	<5	
			101-93-14	57	60	<5	
			101-93-15	60	63	<5	
			101-93-16	63	66	<5	
			101-93-17	66	69	<5	
			101-93-18	69	71	<5	
			101-93-19	91	93	<5	
			101-93-20	93	96	<5	
			101-93-21	96	99	<5	
			101-93-22	99	102	<5	
			101-93-23	102	105	<5	
			101-93-24	105	108	<5	
			101-93-25	108	112.25	<5	
			101-93-26	112.60	121.80	<5	
			101-93-27	121.80	135.60	<5	
			101-93-28	135.60	138.90	<5	
			101-93-29	138.90	150.1	<5	
			101-93-30	150.1	162.2	<5	
			101-93-31	162.2	173.6	<5	
		- cont'd -	101-93-32	173.6	184.3	<5	



FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-94	Zone no:	Contracteur: Bradley Brothers Ltd.	Débuté le: 2/11/1988
Location: URBAN	Rang :	Claim no: 396260-5	Terminé le: 5/11/1988
Niveau :	Section:	Lieu de travail: Surface	
Coordonnées au collet :	Ligne : 170+00 E	Latitude: 49300.00 N	Azîmut: 180° 0' 0"
Système de référence:	Station: 92+75 N	Longitude: 51115.00 E	Inclinaison: -50° 0' 0"
		Élévation: 5003.00	Longueur: 290.00 M
Arpenté par:			
Tests de déviation :	Profondeur	Inclinaison	Az Corrigé
	6.00 M	-49° 0' 0"	
	82.00 M	-45° 0' 0"	
	150.00 M	-42° 0' 0"	
	225.00 M	-33°30' 0"	
	287.00 M	-29°30' 0"	
Remarques : Casing left in hole. Target: high-low mag contact. Coordinates approximate.			
		Débit d'eau: Cimenté : No	Bouchon: No Dimension de la carotte: B.Q.

DE (M)	A (M)	DESCRIPTION	Echen.	DE	A	Long (M)	Au (g/t)	Au <sub>2</sub> (g/t)			
0.00	5.00	CASING, OVERBURDEN.									
5.00	11.30	CRYSTAL TUFF Medium greenish-grey, slightly sericitized, slightly schistose with foliation planes at 54 to C.A. Interspersed crystal aggregates in a fine-grained intermediate groundmass; crystals 0.5 to 4 mm. wide stretched along foliation direction. 0% sulphides.									
11.30	28.48	SERICITIZED SCHIST Greenish beige, slightly foliated at 53 to C.A. Elongated mm-sized laths of chlorite (?) present throughout. 0% sulphides.									
28.48	57.30	CRYSTAL TUFF As per 5-11.3 meters. No sulphides.									
	34.24- 37.54	8-10% cm-wide veins of dark quartz at 12 to C.A. generally. Sterile.	10498 10499	34.24 36.00	36.00 37.54	1.76 1.54	.01 tr				
	45.20- 57.30	Host rock now more siliceous; light grey in color and fairly hard.									
57.30	63.90	SERICITIZED SCHIST As per 11.30-28.48m, but without chloritized laths present.									
63.90	290.00	CRYSTAL TUFF As per 28.48-57.3m. Slightly schistose at 53 to C.A. Few sulphides.									
	79.70- 88.50	Local increase in veins of calcite plus quartz to 6-7%, generally following schistosity. Trace to 1% pyrite, flanking veins.	10500 12001 12002 12003 12004 12005 12006 12007	79.70 81.00 82.00 83.00 84.00 85.00 86.00 87.00	81.00 82.00 83.00 84.00 85.00 86.00 87.00 88.50	1.30 1.00 1.00 1.00 1.00 1.00 1.00 1.50	.01 .02 .16 tr .06 .01 .26 .01				
	97.70- 99.94	Minor local increase in pyrite to 1-2%.	12008	97.70	99.94	2.24	.08				
	106.30- 107.00	Local appearance of talc along fracture planes.									
	108.00- 113.90	Host rock now intermediate to mafic in composition.									
	113.90- 117.30	First appearance of mm-sized anhedral magnetite (2-3%); host rock now slightly magnetic.									
	117.30- 118.30		12009	117.30	118.30	1.00	.03				



DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au (g/t)	Au, (g/t)			
		Local increase in pyrite to 1-2%.									
		118.30- 121.00 As per 113.9-117.3 meters.	12010	125.00	126.00	1.00	tr				
		125.23- 125.51 Quartz plus calcite vein with black tourmaline, at 58 to C.A.; sterile.									
		128.14- 130.70 Local increase in quartz plus cal- cite veins to 15%, with trace py. Footwall enrichment of chlorite plus talc.	12011 12012	128.14 129.00	129.00 130.70	0.86 1.70	tr tr				
		130.70- 147.00 2-3% mm-sized magnetite in a host rock composed of ash tuff; slight- ly magnetic.									
		155.00- 167.50 Highly calcified crystal tuff, with calcite plus quartz replacing phenocrysts. Slightly sheared at 65 to C.A. 0%-trace pyrite.									
		167.50- 189.20 1-2% magnetite; host rock highly calcified and weakly magnetic.									
		191.00- 201.00 Ash tuff (?), slightly sheared at 54 to C.A. 5% calcite plus quartz veins, mainly sterile.	12013	201.47	202.33	0.86	tr				
		201.75- 201.94 Quartz vein with 5% pyrite, at 63 to C.A, flanked by quartz string- ers above and below.									
		203.00- 220.40 Fairly homogeneous crystal tuff, highly carbonatized and slightly chloritized, with 4-5% calcite plus quartz veinlets. Slight fol- iation at 65 to C.A. 0%-tr py.									
		220.40- 224.00 1-2% magnetite; host rock weakly magnetic.									
		237.80- 244.00 Talc-rich zone, with moderate to high shearing at 71 to C.A.									
		244.00- 267.00 Highly calcified crystal tuff with 5% calcite veins. 0% pyrite.									
		268.12- 269.80 Several quartz plus calcite veins, 3-7 cm wide, at 80-90 to C.A. 5%	12014	268.12	269.80	1.68	tr				



AU GEOCHEMISTRY

Diamond Drill Hole no: 101-94

Township: \_\_\_\_\_

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
5	11.3	X <sup>L</sup> Tuff	101-94-1	5.0	11.3 m.	< 5	
11.3	28.48	Sen. Schist	101-94-2	11.3	21.9	< 5	
			101-94-3	21.9	28.48	< 5	
22.48	57.3	X <sup>L</sup> Tuff	101-94-4	28.48	34.24	< 5	
			101-94-5	37.54	50.0	< 5	
57.3	63.9	Amic. Schist	101-94-6	50.0	62.0	< 5	
			101-94-7	62.0	71.0	< 5	
63.9	290	X <sup>L</sup> Tuff	101-94-8	71.0	79.7	< 5	
	(F04)		101-94-9	88.5	97.7	< 5	
			101-94-10	99.94	107.0	< 5	
			101-94-11	107.0	117.3	< 5	
			101-94-12	118.3	125.0	< 5	
			101-94-13	126.0	128.14	< 5	
			101-94-14	130.7	143.0	< 5	
			101-94-15	143.0	155.0	< 5	
			101-94-16	155.0	167.0	< 5	
			101-94-17	167.0	179.0	< 5	
			101-94-18	179.0	191.0	< 5	
			101-94-19	191.0	201.47	< 5	
			101-94-20	202.33	215.0	< 5	
			101-94-21	215.0	227.0	< 5	
			101-94-22	227.0	237.8	< 5	
			101-94-23	237.8	244.0	< 5	
			101-94-24	244.0	257.0	< 5	
			101-94-25	257.0	268.12	< 5	
			101-94-26	268.80	290.0	< 5	

FALCONBRIDGE LTEE  
 JOURNAL DE SONDRAGE  
 Propriété: ROULEAU

Trou no: 101-95      Zone no:      Contracteur: Bradley Brothers Ltd.      Débuté le: 3/11/1988  
 Canton: URBAN  
 Lot:      Rang:      Claim no: 396261-3      Terminé le: 7/11/1988

Niveau:      Section:      Lieu de travail: Surface  
 Coordonnées au collet:      Ligne: 165+00 E      Latitude: 50370.00 N      Azimut: 360° 0' 0"  
 Station: 103+25 N      Longitude: 50608.00 E      Inclinaison: -50° 0' 0"  
 Système de référence:      Elévation: 5005.00      Longueur: 329.00 M

Arpenté par:

Tests de déviation:

Profondeur	Inclinaison	Az Corrigé
31.00 M	-49°30' 0"	
75.00 M	-47°30' 0"	
150.00 M	-40° 0' 0"	
227.00 M	-36° 0' 0"	
300.00 M	-34°30' 0"	

Remarques: Approximate coordinates. Target: geochem Au anomaly (humus) and high mag

Débit d'eau:  
 Cimenté:      :

Bouchon:  
 Dimension de la carotte: 8.0.

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au (g/t)	Au, (g/t)			
0.00	32.00	OVERBURDEN									
32.00	74.00	LAPILLI TUFF: Broken core, intermediate tuff, rock is banded with greenish beige and grayish green bands, aphanitic, chloritic, carbonatized, locally sericitized, foliation well developed at 55 C.A., intermittent zones are present rich in k-feldspar  35.50- 35.70 white quartz vein	011214	35.40	35.90	0.50	tr				
74.00	148.00	QUARTZ-FELDSPAR-BIOTITE-CHLORITE SCHIST: felsic rock, banded, dark gray and pinkish brown bands, schistosity well developed at 55 C.A., mafics:felsics = 7:3  92.40- 114.00 3-4% magnetite  114.00- 116.00 Mafic dyke, non magnetic, aphanitic, upper contact at 55 C.A,  116.00- 126.50 3-4% magnetite  126.50- 132.90 rock is more mafic; mafics:felsics is 4:6  132.90- 134.00 80% K-spar, pink rock	011215	132.90	134.00	1.10	.03				
148.40	329.00	LAPILLI TUFF: Same as 32.00-74.00, intermittent zones rich in K-spar, core is not broken, schistosity at 50-55 C.A.  176.60- 177.00 quartz vein(pink quartz) and epidote, lower contact at 25 C.A.  203.00- 203.48 brecciated zone, 60% quartz patches as well as calcite and epidote, trace pyrite  203.48- 204.52 mafic dyke, gray, aphanitic, non magnetic  210.10- 222.70 weakly to moderately sheared at 50 to 55 AC, 5% quartz-carbonate veins along schistosity, rock is rich in K-spar(pinkish gray), OXpy	011216	176.60	176.93	0.33	tr				
			011217	203.00	203.48	0.48	tr				
			011218	210.10	211.00	0.90	tr				
			011219	211.00	212.00	1.00	.01				
			011220	212.00	213.00	1.00	tr				
			011221	213.00	214.00	1.00	tr				
			011222	214.00	215.00	1.00	.02				
			011223	215.00	216.00	1.00	tr				
			011224	216.00	217.00	1.00	tr				
			011225	217.00	218.00	1.00	tr				
			011226	218.00	219.00	1.00	tr				
			011227	219.00	220.00	1.00	tr				
			011228	220.00	221.00	1.00	.06				
			011229	221.00	221.90	0.90	.12				



NU GEOCHEMISTRY

Diamond Drill Hole no: 101-95

Township: URBAN

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
0	32.0	Overburden	101-95-1	32.0	42.8	<5	
32.0	74.0	Lapilli tuff	101-95-2	42.8	54.6	<5	
74.0	148.4	Q-Kspn-b-c schist	101-95-3	54.6	65.5	<5	
			101-95-4	65.5	74.0	<5	
			101-95-5	74.0	81.7	<5	
			101-95-6	81.7	92.4	<5	
			101-95-7	92.4	103.0	5	
			101-95-8	103.0	114.7	<5	
			101-95-9	114.7	125.7	<5	
			101-95-10	125.7	136.9	<5	
			101-95-11	136.9	146.1	<5	
			101-95-12	146.0	148.4	<5	
48.4	329.0	Lapilli tuff	101-95-13	148.4	159.8	<5	
			101-95-14	159.8	171.0	<5	
			101-95-15	171.0	182.1	<5	
			101-95-16	182.1	193.6	<5	
			101-95-17	193.6	210.1	<5	
			101-95-18	222.7	226.7	<5	
			101-95-19	226.7	242.0	<5	
			101-95-20	242.0	249.3	<5	
			101-95-21	249.3	262.3	<5	
			101-95-22	262.3	272.56	<5	
			101-95-23	278.8	290.9	<5	
			101-95-24	290.9	302.4	<5	
			101-95-25	302.4	314.0	<5	
			101-95-26	314.0	329.0	<5	
			End of hole		329.0		

FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-96	Zone no:	Contracteur: Bradley Bro. Ltd.	Débuté le: 5/11/1988
Conton: URBAN			Terminé le: 10/11/1988
Lot :	Rang :	Claim no:396261-3	
Niveau :	Section:	Lieu de travail: Surface	
Coordonnées au collet :	Ligne : 168+00 E	Latitude: 50248.00 M	Azimut: 360° 0' 0"
	Station: 102+00 N	Longitude: 50908.00 E	Inclinaison: -50° 0' 0"
Système de référence:		Élévation: 5005.00	Longueur: 299.00 M
Arpenté par:			
Tests de déviation :	Profondeur	Inclinaison	Az Corrigé
	50.00 M	-43° 0' 0"	8°30' 0"
	80.00 M	-40° 0' 0"	6°30' 0"
	110.00 M	-39° 0' 0"	6°30' 0"
	140.00 M	-35° 0' 0"	5°30' 0"
	170.00 M	-31° 0' 0"	3°30' 0"
	200.00 M	-29°30' 0"	3°30' 0"
	230.00 M	-29° 0' 0"	3°30' 0"
	246.00 M	-28° 0' 0"	1°30' 0"
Remarques : Casing left in the hole. Target: possible east extension of zone 18. Approximate coordinates.			
	Débit d'eau:	Bouchon:	
	Cimenté :	Dimension de la carotte: B.O.	



DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au (g/t)	Au, (g/t)			
0.00	19.00	OVERBURDEN									
19.00	67.80	LAPILLI TUFF: Greenish gray, mostly massive, lapilli of felsic composition in an intermediate matrix, moderately carbonatized, 1-3% quartz-carbonate veins, no mine realization.									
67.80	212.60	BASALT: Green, mostly massive but locally weakly sheared, moderately carbonatized and chloritized, trace pyrite throughout									
		67.80- 81.45 weakly sheared at 45 C.A., 5% quartz-carbonate veins	012015	81.40	82.05	0.65		tr			
		81.45- 81.60 quartz-chlorite-tourmaline-carbonate vein, brecciated									
		81.60- 82.05 weakly sheared at 45 A.C.									
		82.05- 136.60 massive, homogeneous, very fine grained, 1% quartz-carbonate veins									
		136.60- 149.95 weakly sheared at 50 C.A., 5% quartz-carbonate veinlets									
		149.95- 194.00 massive									
		194.00- 206.50 5-10% quartz-carbonate veins									
		206.50- 212.60 weakly to moderately sheared at 60 to 65 C.A., carbonatized, chloritized, 5-10% quartz-carbonate veins									
212.60	257.00	SHEARED ZONE: green, aphanitic, strongly sheared, moderately to strongly chloritized and carbonatized, 10-15% quartz carbonate veins, trace pyrite throughout, core is broken, locally sericitized.									
		212.60- 233.00 shearing at 60 C.A.	012016	212.60	214.00	1.40		tr			
			012017	214.00	215.00	1.00		tr			
			012018	215.00	216.00	1.00		tr			
			012019	216.00	217.00	1.00		.01			
			012020	217.00	218.00	1.00		tr			
			012021	218.00	219.00	1.00		tr			
			012022	219.00	220.00	1.00		tr			
			012023	220.00	221.00	1.00		tr			
			012024	221.00	222.00	1.00		tr			
			012025	222.00	223.00	1.00		.01			
			012026	223.00	224.00	1.00		tr			
			012027	224.00	225.00	1.00		tr			
			012028	225.00	226.00	1.00		tr			
			012029	226.00	227.00	1.00		tr			
			012030	227.00	228.00	1.00		tr			



NU GEOCHEMISTRY

Diamond Drill Hole no: 101-96

Township: URBAN

Log Summary			Geochemistry Sample				
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
0	19.0	Overburden	101-96-1	19.0	29.4	<S	
19.0	67.8	Lapilli tuff	101-96-2	29.4	41.0	<S	
67.8	212.6	Basalt	101-96-3	41.0	52.4	<S	
212.6	257.0	Sheared zone	101-96-4	52.4	67.8	<S	
257.0	299.0	Q-C% sericite & K-spar schist (+ magnetite)	101-96-5	67.8	82.05	<S	
			101-96-6	82.05	95.0	<S	
			101-96-7	96.0	104.3	<S	
			101-96-8	104.3	116.1	<S	
			101-96-9	116.1	127.4	<S	
			101-96-10	127.4	136.6	<S	
			101-96-11	136.6	149.95	<S	
			101-96-12	149.95	161.50	<S	
			101-96-13	161.50	173.20	<S	
			101-96-14	173.20	184.6	<S	
			101-96-15	184.6	196.1	<S	
			101-96-16	196.1	206.5	<S	
			101-96-17	206.5	212.6	<S	
			101-96-18	257.0	268.8	<S	
			101-96-19	268.8	286.6	<S	
			101-96-20	288.2	299.0	<S	

FALCONBRIDGE LTEE  
 JOURNAL DE SONDRAGE  
 Propriété: ROULEAU

Trou no: 101-97	Zone no:	Contracteur: Bradley Brothers Ltd.	Débuté le: 7/11/1988
Catégorie: URBAN			Terminé le: 11/11/1988
Statut:	Rang:	Claim no:442980-2	
Niveau:	Section:	Lieu de travail: Surface	
Coordonnées au collet :	Ligne : 159+00 E	Latitude: 50500.00 M	Azimut: 360° 0' 0"
Système de référence:	Station: 104+65 M	Longitude: 50005.00 E	Inclinaison: -53° 0' 0"
		Élévation: 5002.00	Longueur: 368.00 M
Arpenté par:			
Tests de déviation :	Profondeur	Inclinaison	Az Corrigé
	0.00 M	-53° 0' 0"	
	75.00 M	-45° 0' 0"	
	150.00 M	-37° 0' 0"	
	225.00 M	-27° 0' 0"	
	300.00 M	-22° 0' 0"	
	359.00 M	-18°30' 0"	
Remarques : Casing not left in hole. Target: humus Au anomaly and interpreted SW-NE shear. Coordinates approx.			
	Débit d'eau:		Bouchon: No
	Cimenté : No		Dimension de la carotte: B.O.







AU GEOCHEMISTRY

Diamond Drill Hole no: 101-97

Township: \_\_\_\_\_

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
0	16	Casing : overburden					
-16	75.3	Chloritized Fabric Schist	101-97-1	16	26.0	<5	
			101-97-2	26	31.3	<5	
			101-97-3	32.9	44.0	<5	
7.3	342.0	Capilli Tuff	101-97-4	44.0	56.0	<5	
			101-97-5	56.0	68.0	<5	
12.0	368.0	Basalt	101-97-6	68.0	75.3	<5	
			101-97-7	75.3	86.0	<5	
			101-97-8	86.0	98.0	<5	
			101-97-9	98.0	112.0	<5	
			101-97-10	114.4	125.0	<5	
			101-97-11	125.0	137.0	<5	
			101-97-12	137.0	146.0	<5	
			101-97-13	146.0	156.0	<5	
			101-97-14	158.0	170.0	<5	
			101-97-15	170.0	182.0	<5	
			101-97-16	182.0	194.0	<5	
			101-97-17	194.0	206.6	<5	
			101-97-18	213.0	224.0	<5	
			101-97-19	224.0	236.0	<5	
			101-97-20	236.0	248.0	<5	
			101-97-21	248.0	260.0	<5	
			101-97-22	260.0	272.0	<5	
			101-97-23	272.0	284.0	<5	
			101-97-24	284.0	296.0	<5	
			101-97-25	296.0	308.0	<5	
			101-97-26	308.0	320.0	15	
			101-97-27	320.0	332.0	<5	
			101-97-28	332.0	342.0	<5	
			101-97-29	342.0	356.0	<5	
			101-97-30	356.0	368.0	<5	



FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trous no: 101-98	Zone no:	Contracteur: Bradley Bro. Ltd.	Débuté le: 10/11/1988
Inton: URBAN			Terminé le: 12/11/1988
	Rang:	Claim no: 442980-4	
Niveau:	Section:	Lieu de travail: Surface	
ordonnées au collet :	Ligne : 167+00 E	Latitude: 50795.00 M	Azimut: 180° 0' 0"
	Station: 107+50 M	Longitude: 50797.00 E	Inclinaison: -50° 0' 0"
Système de référence:		Élévation: 5002.00	Longueur: 233.00 M
Arpenté par:			
Tests de déviation :	Profondeur	Inclinaison	Az Corrigé
	7.00 M	-50° 0' 0"	
	75.00 M	-43° 0' 0"	
	150.00 M	-36° 0' 0"	
	225.00 M	-31° 30' 0"	
Remarques : Casing left in the hole. approximate coordinates. Target: SE-NW trending structure(?), high mag			
	Débit d'eau: Cimenté :		Bouchon: Dimension de la carotte: B.Q.





MICROCHEMISTRY

Diamond Drill Hole no: 101-98

Township: URBAN

Log Summary

Geochemistry Sample

Location (m)		Rock type	Sample no.	Location (m)		Au (ppb)	Remarks
From	To			From	To		
0	6.8	Overburden	101-98-1	6.8	23.8	90	
6.8	86.0	Basalt	101-98-2	23.8	36.6	<5	
			101-98-3	40.35	53.3	10	
			101-98-4	53.3	65.1	15	
			101-98-5	65.1	76.9	10	
			101-98-6	76.9	86.0	<5	
86.0	147.77	Carbonated Basalt	101-98-7	86.0	100.3	<5	
			101-98-8	100.3	111.9	<5	
			101-98-9	111.9	123.4	<5	
			101-98-10	123.4	135.3	<5	
			101-98-11	135.3	147.77	<5	
147.77	178.80	Felsic lap tuff	101-98-12	147.77	158.9	<5	
178.80	215.0	Int-lap. tuff	101-98-13	158.9	170.5	<5	
215.0	233.0	Felsic lap. Tuff	101-98-14	170.5	182.3	<5	
			101-98-15	182.3	188.2	<5	
			101-98-16	193.8	205.8	<5	
			101-98-17	205.8	215.0	<5	
			101-98-18	215.0	223.3	<5	
			101-98-19	223.3	233.0	<5	
End of hole			233.0 m				

FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-99      Zone no:      Contracteur: Bradley Brothers Ltd.      Débuté le: 11/11/1988  
 Canton : URBAN      Rang :      Claim no:442980-3      Terminé le: 14/11/1988  
 Lot :

Niveau :      Section:      Lieu de travail: Surface  
 Coordonnées au collet :      Ligne : 162+00 E      Latitude: 50670.00 N      Azimut: 360° 0' 0"  
 Station: 106+25 N      Longitude: 50308.00 E      Inclinaison: -52° 0' 0"  
 Système de référence:      Elévation: 5002.00      Longueur: 291.00 M

Arpenté par:

Tests de déviation :	Profondeur	Inclinaison	Az Corrigé
	0.00 M	-52° 0' 0"	
	75.00 M	-49°30' 0"	
	150.00 M	-48° 0' 0"	
	212.00 M	-40° 0' 0"	
	275.00 M	-37° 0' 0"	

Remarques : Coordinates approx. Casing left in hole. Target: high mag and interpreted ENE and ESE shears.

Débit d'eau:      Bouchon: No  
 Cimenté : No      Dimension de la carotte: B.Q.

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au g/t	Au, g/t			
0.00	7.00	CASING, OVERBURDEN.									
7.00	132.60	LAPILLI TUFF Whitish grey felsic lapilli with inclusions of chlorite, in a green medium-grained mafic host rock. Matrix hard, chloritized and highly carbonated. Non-magnetic; 0%-trace pyrite.	11248	21.00	22.00	1.00	tr				
		21.42- 32.00 Moderate shearing at 39 to C.A.; 20% veins of calcite +/- quartz. Trace pyrite.	11249	22.00	23.00	1.00	tr				
			11250	23.00	24.00	1.00	.01				
			11251	24.00	25.00	1.00	tr				
			11252	25.00	26.00	1.00	tr				
			11253	26.00	27.00	1.00	tr				
			11254	27.00	28.00	1.00	tr				
			11255	28.00	29.00	1.00	tr				
			11256	29.00	30.00	1.00	tr				
			11257	30.00	31.00	1.00	.09				
			11258	31.00	32.50	1.50	tr				
		32.00- 55.00 Host rock now fairly massive and competent. 2-3% veinlets of calcite. No sulphides.									
		55.00- 59.00 Host rock moderately silicified.									
			11259	68.00	69.00	1.00	tr				
			11260	69.00	70.00	1.00	tr				
			11261	70.00	71.00	1.00	.04				
			11262	71.00	72.00	1.00	tr				
		71.40- 78.00 Weak to moderate shearing at 39 to C.A. Trace pyrite.	11263	72.00	73.00	1.00	tr				
			11264	73.00	74.00	1.00	tr				
			11265	74.00	75.00	1.00	.19				
			11266	75.00	76.00	1.00	.04				
			11267	76.00	77.00	1.00	tr				
			11268	77.00	78.00	1.00	.15				
		86.34- 90.80 First appearance of magnetite. Minor local concentrations only, approximately 1%.									
		109.40- 110.50 Host rock moderately silicified.									
		121.50- 128.00 Isolated occurrences of magnetite, 1%. Host rock weakly magnetic.	11269	127.00	128.00	1.00	tr				
		128.00- 132.60 Tuff moderately sheared at 46 to C.A. Highly calcified. 1% magnetite.	11270	128.00	129.00	1.00	.08				
			11271	129.00	130.00	1.00	tr				
			11272	130.00	131.00	1.00	tr				
			11273	131.00	132.00	1.00	tr				
			11274	132.00	133.00	1.00	tr				
132.60	167.00	BASALT Dark grey, fine- to medium-grained, chloritized and carbonated, weakly magnetic (approx. 1%). No shearing evident. No sulphides.	11275	133.00	134.00	1.00	tr				
			11276	134.00	135.00	1.00	tr				
		135.00- 138.00 Irregular veins and aggregates (15%) of quartz plus calcite +/- tourmaline. 1% pyrite.	11277	135.00	136.00	1.00	tr				
			11278	136.00	137.00	1.00	tr				
			11279	137.00	138.00	1.00	tr				
			11280	138.00	139.00	1.00	tr				
			11281	139.00	140.00	1.00	tr				



AJ GEOCHEMISTRY

Diamond Drill Hole no: 101-99 Township: Urban

Log Summary		Geochemistry Sample					
Location (m) From	To	Rock type	Sample no.	Location (m) From	To	Au (ppb)	Remarks
	132.6	Lapilli Tuff 7φ	101-99-1	7	21.0	<S	
			101-99-2	30.5	44.0	<S	
13.6	167.0	Basalt 7φ	101-99-3	44.0	56.0	<S	
			101-99-4	56.0	62.0	<S	
16.0		Lapilli Tuff 7φ	101-99-5	78.4	89.0	<S	
			101-99-6	89.0	101.0	<S	
			101-99-7	101.0	112.0	<S	
			101-99-8	113.0	127.0	<S	
			101-99-9	143.0	155.0	<S	
			101-99-10	155.0	167.0	<S	
			101-99-11	167.0	179.0	<S	
			101-99-12	179.0	191.0	<S	
			101-99-13	191.0	203.0	<S	
			101-99-14	212.0	224.0	<S	
			101-99-15	224.0	236.0	<S	
			101-99-16	236.0	248.0	<S	
			101-99-17	248.0	264.0	<S	
			101-99-18	266.0	271.24	<S	
			101-99-19	272.3	282.8	<S	
			101-99-20	284.0	291.0	<S	



FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-100      Zone no: ZONE 18      Contracteur: Bradley Bro. Ltd.      Débuté le: 12/11/1988  
 Station: URBAN      Rang:      Claim no: 385282-3      Terminé le: 16/11/1988

Niveau:      Section: 2200E      Lieu de travail: Surface

Coordonnées au collet :      Ligne : 22+00 E      Latitude: 49880.00 N      Azimut: 345° 0' 0"  
 Station: 108+25 N      Longitude: 50237.00 E      Inclinaison: -60° 0' 0"  
 Système de référence:      Elévation: 5008.00      Longueur: 367.00 M

Arpenté par:

Tests de déviation :

Profondeur	Inclinaison	Az Corrigé
20.00 M	-58° 0' 0"	346°30' 0"
50.00 M	-58°30' 0"	344°30' 0"
80.00 M	-58° 0' 0"	343°30' 0"
110.00 M	-58° 0' 0"	344°30' 0"
140.00 M	-58° 0' 0"	344°30' 0"
170.00 M	-57°45' 0"	342°30' 0"
200.00 M	-56°30' 0"	341°30' 0"
230.00 M	-55°30' 0"	338°30' 0"
260.00 M	-54°30' 0"	336°30' 0"
290.00 M	-53°30' 0"	333°30' 0"
320.00 M	-52°30' 0"	333°30' 0"
350.00 M	-51° 0' 0"	332°30' 0"

Remarques : Casing left in the hole. Approximate coordinates.  
 Target: East extension of zone 18.

Débit d'eau:  
 Cimenté :

Bouchon:  
 Dimension de la carotte: B.Q.

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au (g/t)	Au <sub>2</sub> (g/t)			
0.00	2.00	OVERBURDEN									
2.00	121.50	VARIOLITIC BASALT: green, mostly massive, varioles well preserved, 1-3% quartz-calcite veins, moderately carbonatized and chloritized.									
		28.50- 39.90 weakly sheared at 10-15 C.A., 5% quartz-calcite veinlets									
		55.50- 58.20 weakly sheared at 25 C.A., 10-15% quartz-calcite-tourmaline veins	012067 012068	55.50 57.00	57.00 58.20	1.50 1.20	tr tr				
		68.40- 74.10 weakly sheared at 20 C.A.									
		107.65- 121.10 moderately sheared zone at 30 C.A. moderately carbonated and chloriti zed, 5% quartz-carbonate veinlets, trace pyrite throughout	012069 012070 012071 012072 012073 012074 012075 012076 012077 012078 012079 012080 012081	107.65 109.00 110.00 111.00 112.00 113.00 114.00 115.00 116.00 117.00 118.00 119.00 120.00	109.00 110.00 111.00 112.00 113.00 114.00 115.00 116.00 117.00 118.00 119.00 120.00 121.10	1.35 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	tr tr tr tr tr tr tr tr tr tr tr tr tr tr				
		121.10- 121.50 felsic dyke, mottled dark and light gray, siliceous, magnetic, 1-2% pyrite	012082	121.10	121.50	0.40	tr				
212.50	212.00	CARBONATED BASALT: Green speckled beige, moderately to strongly car- bonated, weakly sheared at 25 C.A., 3-5% quartz- carbonate +/- fuschite, trace pyrite									
		157.30- 158.20 felsic dyke, siliceous, grey, non- magnetic, 1% pyrite	012083	157.30	158.20	0.90	.03				
		162.90- 163.50 felsic dyke, siliceous, gray, non- magnetic, tr-1% pyrite	012084	162.90	163.50	0.60	.02				
		168.95- 169.73 Felsic dyke, siliceous, magnetic, 1% pyrite, gray	012085	168.95	169.73	0.78	.06				
		184.89- 185.50 felsic dyke, gray, magnetic, 1% pyrite, contacts at 35 C.A.	012086	184.89	185.50	0.61	tr				
		186.60- 187.75 felsic dyke, siliceous, magnetic, 1%pyrite, contacts at 55C.A.	012087	186.60	187.75	1.15	tr				

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au (g/t)	Au <sub>2</sub> (g/t)			
		199.40- 203.70 felsic dyke, magnetic, gray, 1% pyrite,	012088	199.40	200.50	1.10	.02				
			012089	200.50	201.50	1.00	tr				
			012090	201.50	203.00	1.50	tr				
			012091	203.00	203.70	0.70	.11				
		211.74- 212.10 felsic dyke, siliceous, magnetic, 1-2% pyrite	012092	211.74	212.50	0.76	.03				
212.00	254.00	ULTRAMAFIC HORIZON: Greenish gray, strongly sheared at 30 C.A., 30 to 40% of quartz-carbonate veins either along schistosity or also microfolded, moderately magnetic, chloritized, rich in talc, trace pyrite throughout									
4.00	264.84	CARBONATED BASALT: same as 121.50 to 212.0, shearing at 30 C.A.									
264.84	272.85	SHEARED ZONE: moderately to strongly sheared at 35 C.A., grayish green, 10-15% quartz-carbonate-fuschite-tourmaline veinlets along foliation, tr-1% pyrite throughout	012093	264.84	266.00	1.16	.02				
			012094	266.00	267.00	1.00	.02				
			012095	267.00	268.00	1.00	tr				
			012096	268.00	269.00	1.00	.09				
			012097	269.00	270.00	1.00	.12				
			012098	270.00	271.00	1.00	tr				
			012099	271.00	272.00	1.00	tr				
			012100	272.00	272.85	0.85	tr				
272.85	314.00	SHEARED CARBONATED BASALT: green, moderately sheared at 35-40C.A., moderately carbonated, 5-10% quartz-carbonate-fuschite-tourmaline veinlets along foliation, moderately chloritized, trace pyrite throughout									
		283.63- 284.00 felsic dyke, siliceous, magnetic, 1-2% pyrite, irregular contacts	012101	283.63	284.00	0.37	.39				
		304.26- 304.76 Quartz-carbonate-fuschite vein, irregular contacts	012102	304.00	305.00	1.00	tr				
			012103	305.00	306.00	1.00	.01				
			012104	306.00	307.00	1.00	tr				
			012105	307.00	308.00	1.00	tr				
			012106	308.00	309.00	1.00	tr				
			012107	309.00	310.00	1.00	tr				
			012108	310.00	311.00	1.00	tr				
			012109	311.00	312.00	1.00	tr				
			012110	312.00	313.00	1.00	tr				
			012111	313.00	314.00	1.00	tr				
314.00	339.90	SHEARED ZONE: Green and beige, strongly sheared at 40-45 C.A., carbonatized, chloritized, trace to 1% pyrite throughout, 20% quartz-carbonate-tourmaline-fuschite veinlets which are locally microfolded	012112	314.00	315.00	1.00	tr				
			012113	315.00	316.00	1.00	tr				
			012114	316.00	317.40	1.40	tr				
		317.40- 317.70 Siliceous and brecciated zone, 1% pyrite	012115	317.40	317.70	0.30	.08				
			012116	317.70	319.00	1.30	5.35	5.35			
			012117	319.00	320.00	1.00	.08				
			012118	320.00	321.00	1.00	.13				
			012119	321.00	322.00	1.00	.01				
			012120	322.00	323.00	1.00	tr				
			012121	323.00	324.00	1.00	tr				
			012122	324.00	325.00	1.00	tr				



NU GEOCHEMISTRY

Diamond Drill Hole no: 101-100

Township: URBAN

Log Summary		Geochemistry Sample				
Location (m) From	Rock type	Sample no.	Location (m) From	To	Au (ppb)	Remarks
0	Overburden	101-100-1	2.0	13.9	<5	
2.0	Volcanic Basalt	101-100-2	13.9	28.5	<5	
121.5	Carbonated Basalt	101-100-3	28.5	39.9	<5	
212.0	Diatrematic Horizon	101-100-4	39.9	55.5	<5	
254.0	Carbonated Basalt	101-100-5	58.2	68.4	<5	
264.84	Sheared zone	101-100-6	68.4	74.1	<5	
272.85	Sheared Carbonated Basalt	101-100-7	74.1	83.3	<5	
		101-100-8	83.3	95.0	<5	
314.0	Sheared zone	101-100-9	95.0	107.65	<5	
339.9	Lapilli tuft	101-100-10	121.5	135.2	<5	
		101-100-11	135.2	147.0	<5	
		101-100-12	147.0	158.6	<5	
		101-100-13	158.6	170.1	10	
		101-100-14	170.1	181.95	<5	
		101-100-15	181.95	199.4	<5	
		101-100-16	203.7	212.0	<5	
		101-100-17	212.0	228.3	<5	
		101-100-18	228.3	239.7	<5	
		101-100-19	239.7	254.0	<5	
		101-100-20	254.0	264.84	<5	
		101-100-21	272.85	286.7	<5	
		101-100-22	286.7	308.55	<5	
		101-100-23	344.0	356.0	<5	
		101-100-24	356.0	367.0	<5	
		End of hole : 367.0				

FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-101      Zone no:      Contracteur: Bradley Brothers Ltd.      Débuté le: 14/11/1988  
 Categorie: URBAN      Rang:      Claim no: 396260-3      Terminé le: 18/11/1988

Niveau:      Section:      Lieu de travail: Surface  
 Coordonnées au collet:      Ligne: 163+00 E      Latitude: 49568.00 N      Azimut: 360° 0' 0"  
 Station: 95+25 M      Longitude: 50420.00 E      Inclinaison: -50°30' 0"  
 Système de référence:      Elévation: 5005.00      Longueur: 353.00 M

Arpenté par:

Tests de déviation:

Profondeur	Inclinaison	Az Corrigé
20.00 M	-49° 0' 0"	1°30' 0"
50.00 M	-44° 0' 0"	353° 0' 0"
80.00 M	-43° 0' 0"	352°30' 0"
110.00 M	-43° 0' 0"	352°30' 0"
140.00 M	-42° 0' 0"	352° 0' 0"
170.00 M	-41°30' 0"	353°30' 0"
200.00 M	-41°30' 0"	351° 0' 0"
230.00 M	-40°30' 0"	353°30' 0"
260.00 M	-40° 0' 0"	355°30' 0"
290.00 M	-38°30' 0"	357° 0' 0"
320.00 M	-37°30' 0"	358° 0' 0"
344.00 M	-37° 0' 0"	358°30' 0"

Remarques: Coordinates approx. Casing left in hole. Target:  
 IP conductor, Au geochem anomaly and high mag.

Débit d'eau:  
 Cimenté: No

Bouchon: No  
 Dimension de la carotte: 8.Q.

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au g/t	Au, g/t			
0.00	2.50	CASING, OVERBURDEN.									
2.50	32.00	ASH TUFF Medium grey, aphanitic, silicified, non-magnetic. Slightly foliated at 35 to C.A. 2-3% veins of black quartz, sterile, which crosscut foliation and are at 30 to C.A. Trace pyrite.									
	4.00- 7.75	Local concentration of iron carbonate veins, now oxidized.									
	10.74- 11.72	Scattered euhedral pyrite, 2-3%.	11298	10.74	11.72	0.98	tr				
	17.50- 18.40	5% diffuse veins of black quartz, sterile.	11299	17.50	18.40	0.90	tr				
	22.00- 23.35	7-8% fuchsite along foliation planes. 1% pyrite.	11300 11301	21.70 22.50	22.50 23.60	0.80 1.10	tr tr				
	25.50- 30.85	Host rock silicified.	11302	30.00	31.00	1.00	tr				
	30.85- 32.00	Breccia zone near contact, now healed and silicified. 3-4% pyrite.	11303	31.00	32.00	1.00	tr				
32.00	94.00	ARGILLIC SILICIFIED SEDIMENT Medium to dark grey fine grained argillaceous sediment, now partially silicified. Foliation at 46 to C.A. <1% pyrite.	11304	40.60	42.00	1.40	tr				
	40.70- 41.80	3-4% stringers of pyrite along foliation planes.									
	41.80- 51.60	Black mottling on grey matrix. 1-2% pyrite.	11305 11306 11307 11308 11309 11310 11311 11312 11313 11314	42.00 43.00 44.00 45.00 46.00 47.00 48.00 49.00 50.00 51.00	43.00 44.00 45.00 46.00 47.00 48.00 49.00 50.00 51.00 52.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	tr tr tr tr tr tr tr tr tr tr				
	51.60- 62.00	Minor intermittent breccia with 8-10% veins of black quartz, 2% pyrite.	11315 11316 11317 11318 11319 11320 11321 11322 11323 11324 11325 11326 11327	52.00 53.00 54.00 55.00 56.00 57.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00	53.00 54.00 55.00 56.00 57.00 58.00 59.00 60.00 61.00 62.00 63.00 64.00 65.00	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	.06 .12 .08 tr .09 .30 .13 .01 .01 .20 .15 .01 .01				

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au g/t	Au, g/t			
			11328	65.00	66.00	1.00	tr				
			11329	66.00	67.00	1.00	.04				
			11330	67.00	68.00	1.00	tr				
			11331	68.00	69.00	1.00	tr				
			11332	69.00	70.00	1.00	tr				
			11333	70.00	71.00	1.00	tr				
		71.00- 83.00									
		Fairly homogeneous greyish black argillic sediment, silicified, with 1-2% pyrite.	11334	71.00	72.00	1.00	tr				
			11335	72.00	73.00	1.00	tr				
			11336	73.00	74.00	1.00	tr				
			11337	74.00	75.00	1.00	tr				
			11338	75.00	76.00	1.00	tr				
			11339	76.00	77.00	1.00	tr				
			11340	77.00	78.00	1.00	tr				
			11341	78.00	79.00	1.00	tr				
			11342	79.00	80.00	1.00	.06				
			11343	80.00	81.00	1.00	.05				
			11344	81.00	82.00	1.00	.04				
			11345	82.00	83.00	1.00	tr				
		83.00- 92.00									
		As per 51.6-62.0 m, with 5% veins of black quartz, 1% pyrite.	11346	83.00	84.00	1.00	tr				
			11347	84.00	85.00	1.00	tr				
			11348	85.00	86.00	1.00	tr				
			11349	86.00	87.00	1.00	tr				
			11350	87.00	88.00	1.00	.01				
			11351	88.00	89.00	1.00	tr				
			11352	89.00	90.00	1.00	.01				
			11353	90.00	91.00	1.00	tr				
			11354	91.00	92.00	1.00	.05				
		92.00- 94.00									
		Brecciated gradational contact between upper sediments and lower tuff.	11355	92.00	93.00	1.00	.10				
			11356	93.00	94.00	1.00	.08				
94.00	183.70	ASH TUFF (?)	11357	94.00	95.00	1.00	.13				
		Fine-grained beige-green ash tuff, silicified and sericitized, felsic, non-magnetic. Minor foliation at 46 to C.A. 10% irregular veins of black quartz, cut by occasional later veinlets of white calcite. 1% pyrite.	11358	95.00	96.00	1.00	.05				
			11359	96.00	97.00	1.00	tr				
			11360	97.00	98.00	1.00	tr				
			11361	98.00	99.00	1.00	tr				
			11362	99.00	100.00	1.00	tr				
			11363	100.00	101.00	1.00	.01				
			11364	101.00	102.00	1.00	.03				
		101.40- 104.00									
		Local concentrations of veins of black quartz, 20%, containing inclusions of brecciated host rock. Sterile.	11365	102.00	103.00	1.00	.05				
			11366	103.00	104.00	1.00	tr				
			11367	104.00	105.00	1.00	tr				
			11368	105.00	106.00	1.00	tr				
			11369	106.00	107.00	1.00	.02				
			11370	107.00	108.00	1.00	.02				
			11371	108.00	109.00	1.00	tr				
			11372	109.00	110.00	1.00	tr				
			11373	110.00	111.00	1.00	tr				
			11374	111.00	112.00	1.00	.01				
			11375	112.00	113.00	1.00	tr				
			11376	113.00	114.00	1.00	.09				
			11377	114.00	115.00	1.00	.16				
		114.30- 117.00									
		Local increase in very finely dis-	11378	115.00	116.00	1.00	.11				
			11379	116.00	117.00	1.00	.10				



DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au g/t	Au, g/t			
		seminated pyrite to 2-3%.									
		117.00- 118.40	11380	117.00	118.00	1.00	.05				
		Grey intrusive felsic dyke containing 3% pyrite. Non-magnetic.	11381	118.00	119.00	1.00	tr				
		118.40- 129.83	11382	119.00	120.00	1.00	tr				
		Host rock now coarser-grained, possibly recrystallized.	11383	120.00	121.00	1.00	tr				
			11384	121.00	122.00	1.00	tr				
			11385	129.77	130.45	0.68	tr				
		129.83- 130.41									
		As per 117.0-118.4 m. Upper contact at 86 to C.A.; lower at 70.	11386	132.86	133.40	0.54	tr				
		132.92- 133.23									
		As above. Diffuse irregular upper and lower contacts at 37 and 32.									
		135.56- 136.34	11387	135.56	136.40	0.84	.02				
		As above, but with sharp upper contact at 68 to C.A. Lower contact diffuse.									
		144.66- 146.64	11388	144.66	145.66	1.00	tr				
		As above, with 7% crosscutting veinlets of calcite. 1-2% pyrite. Upper contact at 48 to C.A.; lower at 80.	11389	145.66	146.64	0.98	tr				
			11390	153.40	155.10	1.70	.02				
		153.50- 155.00									
		10% diffuse aggregates of black quartz, with 1% pyrite.									
		157.83- 158.86	11391	157.83	158.98	1.15	tr				
		Dark grey intrusive felsic dyke. 3-4% pyrite, trace chalcopryrite. Upper contact at 52 to C.A., sharp lower contact at 77.									
			11392	175.00	176.00	1.00	.22				
			11393	176.00	177.00	1.00	.11				
			11394	177.00	178.00	1.00	tr				
			11395	178.00	179.00	1.00	.04				
			11396	179.00	180.00	1.00	tr				
		179.00- 183.70	11397	180.00	181.00	1.00	tr				
		Gradational contact between ash tuff and graphitic sediment. 10% irregular veinlets of quartz plus plagioclase. Trace pyrite +/- cp.	11398	181.00	182.00	1.00	.01				
			11399	182.00	183.00	1.00	.01				
			11400	183.00	184.00	1.00	tr				
183.70	213.76	GRAPHITIC SEDIMENT	11401	184.00	185.00	1.00	.05				
		Very fine-grained grey-black graphitic sediment, now strongly silicified. Fairly hard and competent. Poorly-developed cleavage at 37 to C.A.	11402	185.00	186.00	1.00	.01				
		8% diffuse veins of black quartz, white quartz, and calcite (ratio 5:2:1). 2% pyrite.	11403	186.00	187.00	1.00	tr				
			11404	187.00	188.00	1.00	.02				
			11405	188.00	189.00	1.00	tr				
			11406	189.00	190.00	1.00	.06				
		189.40- 192.00	11407	190.00	191.00	1.00	.03				
		Local enrichment of secondary pyrite infilling fractures, to 6%.	11408	191.00	192.00	1.00	.07				
			11409	192.00	193.00	1.00	.27				
			11410	193.00	194.00	1.00	.09				
			11411	194.00	195.00	1.00	.09				
			11412	195.00	196.00	1.00	.06				
			11413	196.00	197.00	1.00	.03				
			11414	197.00	198.00	1.00	.02				

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au g/t	Au, g/t			
		197.40- 202.70 15% black quartz, cementing healed breccia. 2% pyrite infilling fractures.	11415	198.00	199.00	1.00	.01				
			11416	199.00	200.00	1.00	tr				
			11417	200.00	201.00	1.00	tr				
			11418	201.00	202.00	1.00	tr				
			11419	202.00	203.00	1.00	tr				
			11420	203.00	204.00	1.00	tr				
			11421	204.00	205.00	1.00	.01				
			11422	205.00	206.00	1.00	.04				
			11423	206.00	207.00	1.00	tr				
			11424	207.00	208.00	1.00	tr				
			11425	208.00	209.00	1.00	.01				
			11426	209.00	210.00	1.00	.04				
		209.60- 210.90 Local increase in pyrite to 4%.	11427	210.00	211.00	1.00	.07				
			11428	211.00	212.00	1.00	.02				
			11429	212.00	213.00	1.00	.07				
		212.70- 213.75 As above, 5%.	11430	213.00	214.00	1.00	.03				
		213.75- 213.76 Sharp contact with underlying volcanics at 56 to C.A.									
3.76	236.20	CRYSTAL TUFF Light greenish gray, very fine-grained, highly carbonatized, slightly chloritized. Non-magnetic. Moderate foliation at 52 to C.A. 15% veinlets of calcite. Trace pyrite, infilling fractures.	11431	214.00	215.00	1.00	tr				
		230.90- 236.20 Foliation no longer evident. Carbonatized crystals very apparent. Homogeneous grey matrix.	11432	236.00	237.00	1.00	tr				
236.20	317.00	BASALT Rock now coarse-grained, dark green, with flecks of kaolinite (?). Possible minor intercalations of ash tuff. Non-magnetic. Highly carbonatized. Upper contact at 50 to C.A.									
		236.20- 240.50 First appearance of pyrrhotite (2%). Pyrite 3%.	11433	237.00	238.00	1.00	tr				
			11434	238.00	239.00	1.00	tr				
			11435	239.00	240.00	1.00	tr				
			11436	240.00	241.00	1.00	tr				
		240.50- 245.00 General decrease in po+py to 1.5% total. Ratio of po to py is 2:3 .									
		256.12- 256.46 Quartz-tourmaline-calcite vein with trace pyrite. Upper and lower contact at 48 to C.A.	11437	256.00	256.50	0.50	tr				
		256.46- 274.45 4-5% minor veinlets of calcite infilling foliation planes at 48 to C.A. Sterile.									
		274.45- 275.00 Two calcite plus quartz veins 10-15 cm wide, with 1% po and trace	11438	274.45	275.00	0.55	tr				



AU GEOCHEMISTRY

Diamond Drill Hole no: 101-101

Township: Urban

Log Summary		Geochemistry Sample					
Location (m) From	To	Rock type	Sample no.	Location (m) From	To	Au (ppb)	Remarks
2.5	32.0	Ash Tuff	101-101-1	2.5	14	<S	
			101-101-2	14	26	<S	
32.0	94.0	Angillie bed r	101-101-3	26	32	<S	
			101-101-4	32	41	<S	
94.0	183.7	Ash Tuff (?)	101-101-5	122	134	<S	
			101-101-6	134	144.66	<S	
183.7	213.76	Graphitic Sch.	101-101-7	146.64	157.83	<S	
			101-101-8	157.83	167	<S	
213.76	236.2	Crystal Tuff	101-101-9	167	175	<S	
			101-101-10	215	227	<S	
236.2	317.0	Basalt	101-101-11	227	236	<S	
			101-101-12	241	254	<S	
317.0	326.82	Diorite	101-101-13	254	266	<S	
			101-101-14	266	278	<S	
326.82	353.0	Basalt	101-101-15	278	290	<S	
	(EOM)		101-101-16	290	302	<S	
			101-101-17	302	317	<S	
			101-101-18	320	327	<S	
			101-101-19	327	338	<S	
			101-101-20	338	353	<S	

FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trous no: 101-102	Zone no:	Contracteur: Bradley Bro. Ltd.	Débuté le: 16/11/1988
Contour: URBAN			Terminé le: 20/11/1988
Noté :	Rang :	Claim no: 396260-3	
Niveau :	Section: 2100E	Lieu de travail: Surface	
Coordonnées au collet :	Ligne : 21+00 E	Latitude: 49515.00 N	Azimut: 345° 0' 0"
Système de référence:	Station: 104+75 N	Longitude: 50230.00 E	Inclinaison: -50° 0' 0"
		Élévation: 5005.00	Longueur: 326.00 M
Arpenté par:			
Tests de déviation :	Profondeur	Inclinaison	Az Corrigé
	4.00 M	-48° 30' 0"	
	75.00 M	-47° 0' 0"	
	150.00 M	-43° 0' 0"	
	170.00 M	-42° 0' 0"	342° 30' 0"
	200.00 M	-41° 0' 0"	340° 30' 0"
	230.00 M	-39° 30' 0"	333° 30' 0"
	260.00 M	-38° 0' 0"	338° 30' 0"
	290.00 M	-35° 0' 0"	342° 0' 0"
	320.00 M	-33° 0' 0"	342° 30' 0"
Remarques : Casing left in the hole. Approximate coordinates. Target: Humus Au anomaly and follow up of 101-89			
	Débit d'eau:	Bouchon:	
	Cimenté :	Dimension de la carotte: B.Q.	

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au g/t	Au, g/t			
0.00	4.10	OVERBURDEN									
4.10	90.70	ARGILLITIC SILICIFIED SEDIMENTS: rock is dark gray, locally layered dark and light gray, very fine grained, trace pyrite throughout, locally up to 2-3%, 5% brecciated zones with black quartz up to 80%									
	4.10-	16.00 weakly foliated at 50 C.A.									
			012143	16.00	17.00	1.00	tr				
			012144	17.00	18.00	1.00	.03				
			012145	18.00	19.00	1.00	.06				
			012146	19.00	20.00	1.00	tr				
			012147	20.00	21.00	1.00	tr				
			012148	21.00	22.00	1.00	tr				
			012149	22.00	23.30	1.30	.02				
			012150	23.30	23.70	0.40	.52				
	23.45-	23.57 Black, brecciated, siliceous, 80% black quartz, 2-3% pyrite									
			012151	23.70	24.60	0.90	.66				
	24.60-	26.26 black, brecciated, black colour, 60% black quartz, 2-3% pyrite									
			012152	24.60	25.50	0.90	.37				
			012153	25.50	26.26	0.76	.12				
	27.60-	29.40 30% of brecciated, siliceous zones with 30% black quartz and 2% pyri- te									
			012154	26.26	27.60	1.34	.11				
			012155	27.60	28.50	0.90	.18				
			012156	28.50	29.40	0.90	.14				
			012157	29.40	31.00	1.60	.05				
			012158	31.00	32.00	1.00	.08				
			012159	32.00	32.50	0.50	.01				
	32.25-	32.40 brecciated, siliceous, 60% black quartz, 2% pyrite									
			012160	32.50	34.00	1.50	.08				
			012161	34.00	35.00	1.00	.02				
			012162	35.00	36.00	1.00	.10				
			012163	36.00	37.00	1.00	.42				
			012164	37.00	38.00	1.00	tr				
			012165	38.00	39.00	1.00	tr				
			012166	39.00	40.00	1.00	.12				
			012167	40.00	41.00	1.00	.04				
			012168	41.00	42.00	1.00	tr				
			012169	42.00	43.00	1.00	tr				
			012170	43.00	44.00	1.00	tr				
			012171	44.00	45.00	1.00	tr				
			012172	45.00	46.00	1.00	tr				
			012173	46.00	47.00	1.00	.39				
			012174	47.00	48.30	1.30	.03				
	48.30-	50.00 30% of brecciated, siliceous zones with 40-50% black quartz and 2% pyrite									
			012175	48.30	49.10	0.80	.85				
			012176	49.10	50.00	0.90	.62				
			012177	50.00	51.00	1.00	.45				
			012178	51.00	52.00	1.00	.33				
			012179	52.00	53.00	1.00	.02				
			012180	53.00	54.00	1.00	.01				
			012181	54.00	55.00	1.00	.09				
			012182	55.00	56.00	1.00	.28				
			012183	56.00	57.00	1.00	.21				
			012184	57.00	58.80	1.80	.29				

DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au g/t	Au, g/t			
		58.80- 60.10 80% black quartz, siliceous, brecciated, 3-4% pyrite	012185	58.80	60.10	1.30	.14				
		60.10- 61.86 20% of brecciated, siliceous zones with 2% pyrite	012186	60.10	61.00	0.90	.07				
			012187	61.00	61.86	0.86	.07				
		61.86- 69.20 rock is more felsic and weakly foliated at 55 C.A., 1% pyrite throughout	012188	61.86	63.00	1.14	.04				
			012189	63.00	64.00	1.00	.11				
			012190	64.00	65.00	1.00	tr				
			012191	65.00	66.00	1.00	tr				
			012192	66.00	67.00	1.00	.05				
			012193	67.00	68.00	1.00	.03				
			012194	68.00	69.20	1.20	tr				
		69.78- 71.30 30% black quartz, brecciated, siliceous, 2% pyrite	012195	69.20	69.78	0.58	.04				
			012196	69.78	71.00	1.22	tr				
		71.30- 71.50 80% black quartz, brecciated, siliceous, 1% pyrite	012197	71.00	71.50	0.50	.04				
			012198	71.50	72.50	1.00	tr				
			012199	72.50	74.00	1.50	tr				
			012200	74.00	75.00	1.00	tr				
			012201	75.00	76.00	1.00	tr				
			012202	76.00	77.00	1.00	tr				
			012203	77.00	78.00	1.00	.07				
			012204	78.00	79.00	1.00	tr				
			012205	79.00	80.00	1.00	.03				
			012206	80.00	81.00	1.00	tr				
			012207	81.00	82.00	1.00	tr				
			012208	82.00	83.00	1.00	tr				
			012209	83.00	84.00	1.00	tr				
			012210	84.00	85.00	1.00	tr				
			012211	85.00	86.00	1.00	.01				
			012212	86.00	87.00	1.00	tr				
			012213	87.00	88.00	1.00	tr				
			012214	88.00	89.00	1.00	tr				
			012215	89.00	90.00	1.00	tr				
.70	111.00	GRAPHITIC SILICIFIED SEDIMENTS: rock is dark gray to black, very fine grained, foliation well developed at 55 C.A., 1% pyrite throughout, core is broken locally, upper contact is gradational, lower contact is abrupt and brecciated	012216	107.00	108.00	1.00	tr				
			012217	108.00	109.00	1.00	tr				
			012218	109.00	110.00	1.00	tr				
			012219	110.00	111.00	1.00	.02				
111.00	175.00	TUFF(?): Medium gray to light greenish gray, fine to medium grained, 1-3% of dark gray quartz stringers rock is of felsic to intermediate composition, no mineralization.									
		111.00- 112.50 rock is siliceous, brecciated, 90% grey quartz, 4% pyrite	012220	111.00	111.90	0.90	.02				
			012221	111.90	112.50	0.60	.01				
		129.00- 133.00 presence of felsic lapilli(?) up to 5cm, rock is mostly massive	012222	112.50	113.60	1.10	.02				
			012223	174.00	175.00	1.00	tr				







AU GEOCHEMISTRY

Drill Hole no: 101-102

Township: URBAN

Log Summary		Geochemistry Sample					
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
0	4.1	Overburden	101-102-1	4.1	16.0	<5	
4.1	90.7	Argillitic Silicified Sediments	101-102-2	90.0	110.0	<5	
			101-102-3	113.6	124.4	<5	
90.7	111.0	Graphitic Sediments silicified	101-102-4	124.4	135.6	<5	
			101-102-5	135.6	147.4	<5	
111.0	175.0	Tuff (?)	101-102-6	147.4	159.0	<5	
175.0	242.95	Graphitic Seds	101-102-7	159.0	174.0	<5	
242.95	295.10	Carbonated Basalt	101-102-8	191.0	201.6	<5	
295.10	307.30	Diorite	101-102-9	201.6	205.6	<5	
307.30	326.0	Carbonated Basalt	101-102-10	205.6	222.2	<5	
			101-102-11	222.2	236.0	<5	
			101-102-12	242.95	256.3	15	
			101-102-13	256.3	267.8	<5	
			101-102-14	267.8	279.5	<5	
			101-102-15	279.5	295.1	<5	
			101-102-16	295.1	307.3	<5	
			101-102-17	307.3	326.0	5	
			End of hole : 326.0 m				

FALCONBRIDGE LTEE  
JOURNAL DE SONDAGE  
Propriété: ROULEAU

Trou no: 101-103      Zone no: ZONE 18      Contracteur: Bradley Bro. Ltd.      Débuté le: 18/11/1988  
anton: URBAN  
ot:      Rang:      Claim no:385282-3      Terminé le: 23/11/1988

Niveau:      Section: 2150E      Lieu de travail: Surface  
oordonnées au collet:      Ligne: 21+50 E      Latitude: 49780.00 M      Azimut: 345° 0' 0"  
Station: 107+40 M      Longitude: 50212.00 E      Inclinaison: -60° 0' 0"  
Système de référence:      Elévation: 5008.00      Longueur: 506.00 M

Arpenté par:

Tests de déviation:

Profondeur	Inclinaison	Az Corrigé
0.01 M	NON DISP.	0° 0' 0"
20.00 M	-58°30' 0"	344°30' 0"
50.00 M	-57°30' 0"	345°30' 0"
80.00 M	-57° 0' 0"	347°30' 0"
110.00 M	-56°30' 0"	347°30' 0"
140.00 M	-56°30' 0"	349° 0' 0"
170.00 M	-56°30' 0"	350°30' 0"
200.00 M	-56°30' 0"	350°30' 0"
230.00 M	-56°30' 0"	350°30' 0"
260.00 M	-56° 0' 0"	349°30' 0"
290.00 M	-55°30' 0"	348° 0' 0"
320.00 M	-55°30' 0"	348° 0' 0"
350.00 M	-55°30' 0"	348° 0' 0"
380.00 M	-56° 0' 0"	347°30' 0"
410.00 M	-55° 0' 0"	345°30' 0"
440.00 M	-55° 0' 0"	346°30' 0"
470.00 M	-55° 0' 0"	345°30' 0"
497.00 M	-54°30' 0"	

Remarques: Casing left in the hole. Approximate coordinates.  
Target: zone 18 at depth. Hole wedged at 506.0m

Débit d'eau:  
Cimenté:

Bouchon:  
Dimension de la carotte: 8.0.



DE (M)	A (M)	DESCRIPTION	Echan.	DE	A	Long (M)	Au (g/t)	Au, (g/t)	Au1 (g/t)	Au2 (g/t)
		variolitic basalt and underlying moderately sheared carbonatized basalt, local increase in pyrite to 2%								
			11458	309.37	310.00	0.63	.01			
		309.47- 311.16 Dark gray intermediate dyke, possibly silicified, trace pyrite, upper contact at 45, lower at 55C.A., slightly magnetic	11459	310.00	311.16	1.16	.04			
		311.16- 311.78 20% diffuse veinlets of quartz and calcite with trace fuschite, sterile	11460	311.16	311.78	0.62	tr			
		353.79- 354.10 trace fuschite associated with quartz carbonate veins, 1% pyrite								
		366.00- 366.30 local concentration of pyrite to 4-5%								
		381.50- 389.00 Ultramafic horizon, weakly serpentized and rich in talc, contacts gradational, 15% quartz-carbonate veins, trace fuschite and pyrite								
		389.00- 394.50 moderate shearing at 36 C.A., 20% of quartz carbonate veins, 1% fuschite, trace pyrite	11461	389.00	390.00	1.00	tr			
			11462	390.00	391.00	1.00	tr			
			11463	391.00	392.00	1.00	.04			
			11464	392.00	393.00	1.00	tr			
			11465	393.00	394.00	1.00	tr			
			11466	394.00	394.50	0.50	.14			
		394.50- 437.00 foliation much less apparent except locally, medium gray massive calcified basalt with 1-3% veins of calcite/quartz, trace pyrite								
		437.00- 461.00 15% of quartz calcite veins generally at 20 C.A., trace pyrite								
		461.00- 462.68 gradational contact between basalt and underlying sediments	11467	462.00	462.68	0.68	tr			
		462.68- 638.36	11468	462.68	463.50	0.82	tr			
			11469	463.50	464.50	1.00	tr			
			11470	464.50	465.50	1.00	.02			
			11471	465.50	466.50	1.00	tr			
			11472	466.50	467.50	1.00	.03			
			11473	467.50	468.50	1.00	.04			
			11474	468.50	469.50	1.00	.03			
			11475	469.50	470.50	1.00	.02			
			11476	470.50	471.50	1.00	tr			



FALCONBRIDGE LTEE  
 JOURNAL DE SONDAGE  
 Propriété: ROULEAU

Trou no: 101-103-A      Zone no: 18      Contracteur: Bradley Bro. Ltd.      Débuté le: 24/11/1988  
 Catégorie: URBAN      Rang:      Claim no: 385282-3      Terminé le: 26/11/1988

Niveau:      Section: 2150E      Lieu de travail: surface  
 Coordonnées au collet :      Ligne : 21+50 E      Latitude: 50055.49 N      Azimut: 345°12' 0"  
 Station: 107+40 N      Longitude: 50153.00 E      Inclinaison: -54°36' 0"  
 Système de référence:      Elévation: 4599.64      Longueur: 48.30 M

Arpenté par:

Tests de déviation :

Profondeur	Inclinaison	Az Corrigé
502.00 M	-54°30' 0"	
536.00 M	-51° 0' 0"	344°30' 0"

Remarques : wedge from 101-103.

Débit d'eau:  
 Cimenté :

Bouchon:  
 Dimension de la carotte: B.Q.





AU GEOCHEMISTRY

1/

Diamond Drill Hole no: 101-103 Township: Wabow

Log Summary			Geochemistry Sample				
Location (m) From To		Rock type	Sample no.	Location (m) From To		Au (ppb)	Remarks
0	4	OB.	101-103-1	4	17	<5	
			101-103-2	17	29	<5	
4	64.76	Basalt (sl. sherd)	101-103-3	29	41	<5	
			101-103-4	41	53	<5	
4.76	99.5	Massive Basalt	101-103-5	53	65	<5	
			101-103-6	65	71.8	10	
9.5	116.95	Basalt (sl. sherd)	101-103-7	77.5	89	20	
			101-103-8	89	101	<5	
11.95	124.24	Diorite	101-103-9	101	116.95	<5	
			101-103-10	116.95	124.24	<5	
17.24	136.13	Basalt (sl. sherd)	101-103-11	124.24	137	<5	
			101-103-12	137	149	<5	
124.13	287.0	Variolitic basalt	101-103-13	149	161	<5	
			101-103-14	161	173	<5	
287.0	462.68	Basalt (mod. sherd)	101-103-15	173	185	<5	
			101-103-16	185	197	<5	
462.68	476.31	Sediment	101-103-17	197	209	<5	
			101-103-18	209	221.65	<5	
476.31	522.0	Shear zone	101-103-19	221.65	233	<5	
			101-103-20	233	245	<5	
522.0	545.3	Lapille tuff	101-103-21	245	257	<5	
			101-103-22	257	269	<5	
			101-103-23	269	281	<5	
			101-103-24	281	293	<5	
			101-103-25	293	305	<5	
			101-103-26	305	317	10	
			101-103-27	317	329	<5	
			101-103-28	329	341	<5	
			101-103-29	341	353	<5	
			101-103-30	353	365	<5	
			101-103-31	365	377	<5	
			101-103-32	377	381.5	<5	
			101-103-33	381.5	389	<5	
			101-103-34	394.5	407	<5	

