

GM 54904

GEOLOGICAL AND DRILL REPORT, LAC PARENT

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Énergie et Ressources
naturelles

Québec 

GEOLOGICAL AND DRILL REPORT
LAC PARENT P.E. 1103
UNGAVA

REÇU AU MRN
1997 -06- 3 0
BUREAU DU REGISTRAIRE

MRN - GÉOINFORMATION 1997
GM 54904

RESSOURCES NATURELLES - SECTEUR MINES
REÇU
27 JUIN 1997
BUREAU RÉGIONAL
ROUYN-NORANDA

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FALCONBRIDGE EXPLORATION LTD
MARCH 1997

97-178-008

SUMMARY

The Lac Parent exploration permit P.E. 1103, covers 87 km² and is located in the central part of the Cape Smith foldbelt. The permit is underlain by basaltic flows and associated pyroclastics belonging to the Parent Group intruded by ultramafic intrusions.

Reconnaissance mapping of this permit was done in 1995. This enabled us to discover previously unknown Cu-Zn occurrences located in the northeastern area. In 1996 we cut 10.6 km of lines and conducted ground Mag and Maxmin surveys. The anomalies were ground checked during August and drilled in late August (two DDH for a total of 325meters). At surface, the mineralization occurs in silicified tuffs and cherts as disseminations and stringers of chalcopyrite, pyrite, sphalerite and galena. It is associated with a medium strength magnetic high and weak EM conductors. Best assay results from grab samples (1995) from the showings are: *1.37% Cu, 743 ppm Pb, 3.55% Zn, 8.1 ppm Ag, 6.24% S. and 0.93% Cu, 0.157% Pb, 6.40% Zn, 10 ppm Ag, 16.52% S.*

In DDH Par96-01 (185m) we intercepted several zones with high gold values corresponding to one of the EM conductors; 82.36 to 83.0m (0.64m) of *5.29 gr/t Au, 4.8 gr/t Ag*; 103.42 to 104.0m (0.58m) of *4.45 gr/t Au, 5.4 gr/t Ag*; 104.57 to 104.91m (0.34m) of *4.8 gr/t Au, 5.3 gr/t Ag*; 110.0 to 111.35m (1.35m) of *15.18 gr/t Au, 20.7 gr/t Ag*; and 112.0 to 113.4m (1.4m) of *0.96 gr/t Au, 1.3 gr/t Ag*. In DDH Par96-02 (140m) only one gold zone was intercepted: *0.60; 0.87gr/t Au*

These occurrences correspond to pyrite, chalcopyrite and hematite stringer zones in chloritized, carbonate rich mafic to ultramafic schists.

Regarding the gold zones drilled in the lac Parent exploration permit, further work is warranted.

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Map4: Interpreted Drill Section 489400mE (1: 1,000)

INTRODUCTION

During the months of July and August 1995 and 1996, 1: 20 000 scale reconnaissance geological mapping was done by Falconbridge Limited on exploration permit P.E. 1103, Lac Parent. Our main goal was to evaluate the economic potential of this area. After discovering several Cu-Zn rich occurrences, we then went on in 1996, to do a geophysical ground survey in the northeastern part of this permit. In August 1996, we drilled two DDH for a total of 325 meters.

The Lac Parent Permit is located about 75km South-East of the village of Salluit and 100 km west of Donaldson. It is located on topographic sheet 35 G/11 and covers an area of 87 km². This permit was taken by Falconbridge in late 1995. The grid has its center at 489,470mE and 6,826,080mN. This area is isolated, no roads are present making it accessible only by air. Field work was based at the Kenty Lake camp, 40kms to the ESE and an Astar 350BA helicopter was used to access the property in 1996.

The area covered by the grid is relatively flat with few outcrops. Permafrost is present to a depth of 300 meters with a surface summer thaw of 1m. Ground cover generally consists of grass, moss and small plants, including a wide variety of flowering plants. Lichen is present on almost all exposed rocks. Temperatures during July 1996 were unusually warm with an average daytime temperature of 18-25^o, reaching 30^o Celsius during the first two weeks. August and September brought rain, heavy fog and strong winds. Although often lifting in the morning, the fog returned quickly in late afternoon or early evening. Snow and cold temperatures (below zero), occurred at the end of August. Mosquitoes were very abundant throughout the whole summer and blackflies made an unusual appearance.

Previous work

Previous regional work on the Lac Parent permit is limited to government regional mapping done by Hervet (1984) resulting in a single annotated geological map (DP 85-05). A study on the mineralized occurrences in the South part of the permit was done by Giovenazzo, 1989. The geochemistry of the Parent Group is described by Picard, 1995. For his work, he used a section located within the South part of the Permit.

Field work and methodology

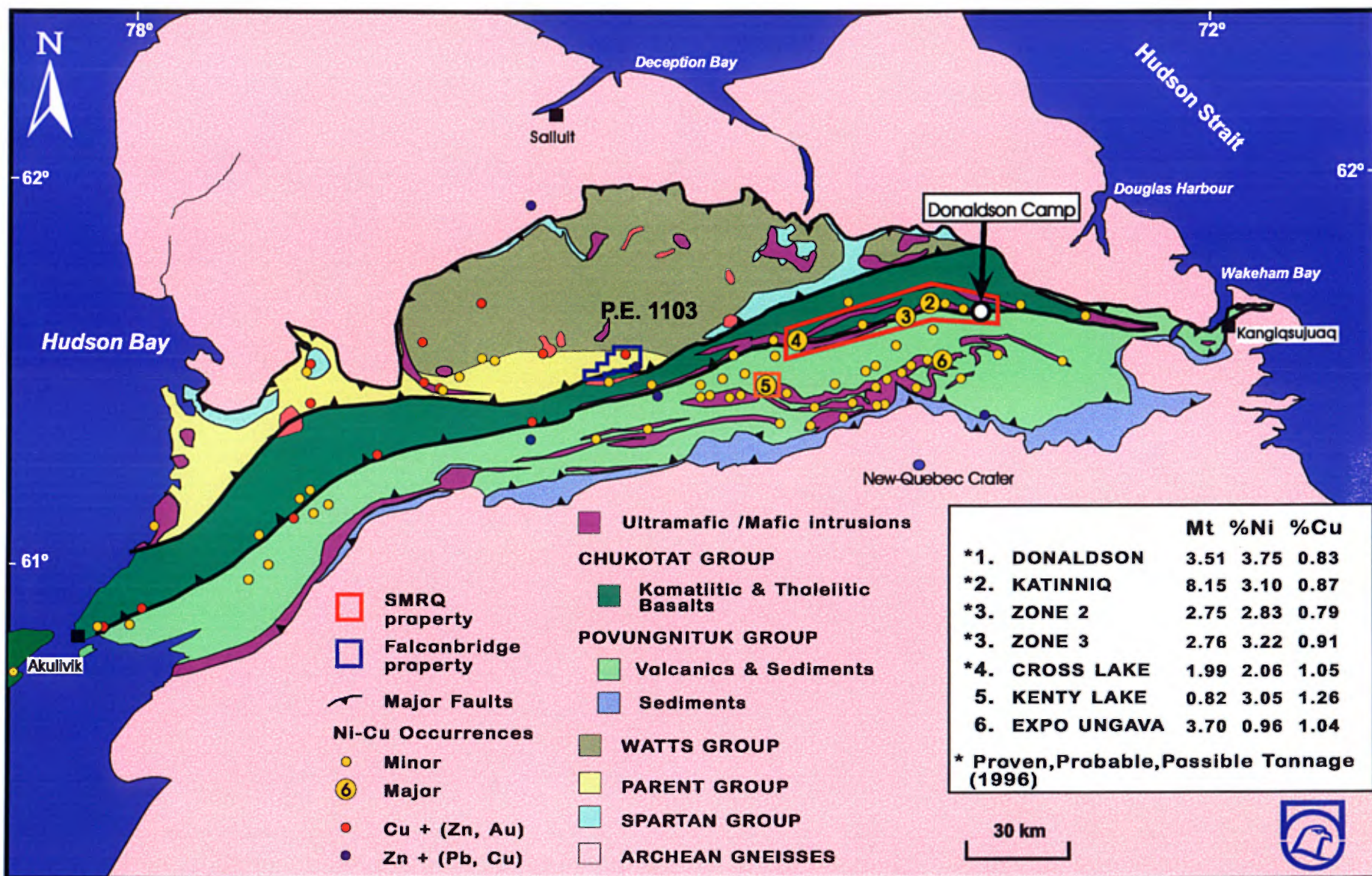
Detailed geological mapping was done on the central part the grid by D. Giovenazzo and an assistant during 2 days in early August 1996, and the grid was surveyed by Val D'Or Geophysics in July.

We moved the drill from Lake Kenty to the first drill hole site Par96-01 between August 16 and 18. A total of 17.6 helicopter hours was required for this move. We started drilling Par-96-01 on August 18 and finished on August 20. Par96-02 started on August 21 and finished August 22. A total of 18 helicopter hours was required for the drilling itself.

A total of 22 surface samples was collected from the permit; 3 whole rock samples-analyzed for major and trace elements and 19 economic samples analyzed for metals. A complete list of all samples along with UTM coordinates, brief petrographic description, and analysis results are annexed to the report.

A total of 47 samples was assayed from the core: 11 whole rock samples-analyzed for major and trace elements and 36 economic samples analyzed for metals.

Whole rock analyses were done by XRF and include the following elements: SiO₂, TiO₂, Al₂O₃, Fe₂O₃, T, MgO, CaO, Na₂O₃, K₂O, P₂O₅, LOI, Cr, Ba, Sr, Zr, Y. Economic samples were analyzed by A.A. with multiacid dissolution (Ni, Cu, Co, Ag, Zn, Pb, As); Au, Pt, Pd by fire assay and S was analyzed by leco.



M.E.R. (PRO-89-03), DG (01/95)
t/PN116/GS/Rapports96/111103.cdr

Fig.1: Geological map of the Ungava Belt and localization of P.E. 001103 Lac Parent

2. GEOLOGY

2.1 Regional geology

The Cape Smith Belt is a foreland thrust belt of Early Proterozoic age located in northern Quebec (St-Onge and Lucas, 1993). It extends for approximately 370km's in an ENE direction between the Inuit villages of Akulivik on Hudson's Bay to the west and Kangiqsujuaq (Wakeham Bay) on the Hudson Strait to the east (figure 1). The belt consists of volcano-sedimentary and plutonic rocks accreted to or accumulated onto the northern margin of the Superior Province Archean craton to the south and north-east, and overlies the Proterozoic Narsajuaq terrain to the north-west.

The Cape Smith Belt is divided into two tectonostratigraphic domains, separated by a major fault; the Bergeron fault. The southern domain is essentially composed of sedimentary and volcanic units associated to the rifting of the Superior Province (Lamarche, Povungnituk and Chukotat groups). Ultramafic to mafic intrusions in the Lamarche and Povungnituk Groups are interpreted as comagmatic with the Chukotat basalts (Picard, 1995). The northern domain is composed of a vast volcano-plutonic assemblage, interpreted to be a dismembered and metamorphosed ophiolite (Watts group), volcanism from an active margin bordering a subduction zone (Parent group), and metasediments (Spartan group) (Picard, 1995; Lamothe 1994; St-Onge & Lucas 1993). At least three deformation phases were identified. These deformations have created large scale folding of the volcanic and sedimentary units of the trough. They are also responsible for the thrust faults that generally separate the different units, creating structural thickening and stratigraphic repetition (St-Onge and Lucas, 1993).

2.2 Property geology

The Riviere Parent permit is underlain by the Parent group. As defined by Picard (1995) and Lamothe (1994), The Parent Group consist of a volcanic sequence composed mostly of tholeiitic to calc-alkaline basalt with associated felsic and mafic pyroclastics with local dacitic and rhyolitic flows. This assemblage gradually passes on, to the East, to a sedimentary sequence, the Spartan Group. It is possible that the Spartan Group is the distal equivalent to the Parent Group. Age dating for the Parent Group is between 1898 and 1830 Ma (Machado et al., 1993). The Parent Group has been interpreted to represent volcanics along an active margin in the first phases of compression by the Trans-Hudsonien Orogen. Geochemical evidence suggests that this sequence was formed on an oceanic crust, inferred to be the Chukotat.

Within the grid, the volcanosedimentary sequences consist mostly of aphyric basaltic flows and associated pyroclastics. The basalts are mostly massive with minor chert bands. Some variolitic pillowed and breccia flows were observed in the south part of the grid. They possess a dark green color and are generally aphyric, although some pyroxene phenocrysts are present locally. The chert bands within this sequence measure between 1 and 3 metres wide. They are either laminated or massive and some may represent silicified zones. In general they contain some sulfides formed of disseminated pyrrhotite and sphalerite and stringers of chalcopyrite with local pyrite, galena and arsenopyrite. Several surface grab samples from these occurrences gave high Cu and Zn values: #52133: 6.4% Zn and 0.93% Cu, KM2256 >2% Zn, 0.83% Cu. Some samples gave high gold values: KM2255: 2.99gr/t. The gold zones seem however to be associated with arsenopyrite.

Lapillis and/or crystal tufts were locally observed. The lapillis tufts contains fragments of varying sizes (<10cm) composed mostly of chert and basalt. The crystal tufts forms thin horizons and consist of 30-40% of plagioclase crystal in a mafic matrix.

This sequence is intruded by at least two ultramafic intrusions, one of which was found to be highly sheared in the drill core. The northernmost intrusion is composed mostly of peridotite (WR samples 52371 and 52372). This unit is unique in the sense that it contains many fragments of varying sizes visible on the altered surface. It is strongly altered in Fe carbonates. The fragments are lighter in color, sub-angular to angular and are generally <4 cm.

The intrusion located south of this one is also composed of fine grained peridotite. In outcrop it is massive and highly magnetic. In the drill holes, this intrusion is locally very sheared and altered with carbonates. Local talc zones are also present.

Gold - rich occurrences are associated with sheared ultramafic/ mafic rock. In Par96-1 and Par96-02, strongly foliated, chloritized, carbonatized and locally silicified mafic schist are present. Stringers of Py, Po, Cp and As are present within silicified zones. Within this schist sulfide-rich horizons were intercepted. They contain between 40-50% Po in thin laminae with graphite. Whole rock samples taken from this unit shows mafic and ultramafic composition with high MgO and Cr content (0.1-0.16%). The gold zones however were found to be associated with the stringer zones.

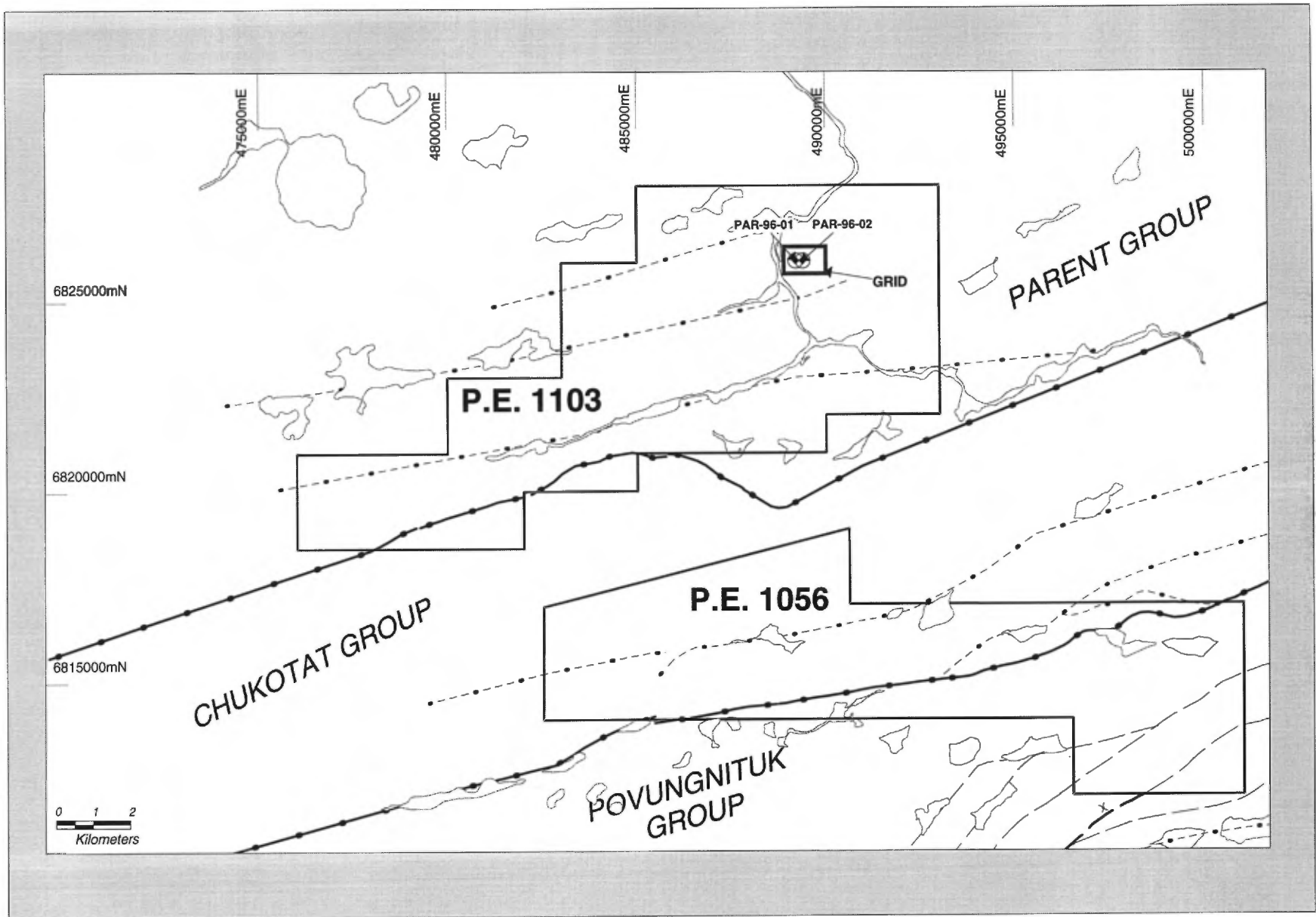


Figure 2: Localization of the Riviere Parent Exploration Permit P.E. 1103 and the geophysical grid.

3. Short logs

Par96-01

UTM at collar: 489209mE, 6826050mN

Grid location of collar: 3+10E, 3+50N

Length: 185m

0 - 4.09m:	Casing in Olivine pyroxenite
4.09 - 9.46;	Olivine Pyroxenite
9.46 - 57.54:	Basalt with thin chert horizons
57.54 - 74.94:	Agglomerate
74.94 - 116.33:	Chloritic schist, local sulfide stringers
	86.4- 87.50: Conductor. 40% Po laminaes with graphite
	104.57 - 104.91; Conductor. 50% disseminated Po
116.33 - 120.80:	Olivine Pyroxenite
120.80- 152.46:	Basalt, massive, Variolithic flows
152.46 - 158.38:	Basaltic flow breccia
158.48 - 162.0:	Felsic intrusion
162.00 - 185.0:	Basalt, massive and pillowed flows

Par96-02

UTM at collar: 489400mE, 6826050mN

Grid location of collar: 5+00E, 3+50N

Length: 140m

0 - 4.00:	Casing in pyroxenite
4.0 - 48.66:	Basalt, variolithic pillowed and massive flows with local flow breccia.
48.66 - 56.20:	Mafic schist, with local Po, Py and Cp stringers
56.20 - 77.0;	Gabbro/Pyroxenite
77.0 - 91.57;	Mafic schist with local sulfide stringers
	88.00 - 89.00: Conductor, 40% Po in laminaes with associated graphite
91.57 - 122.11:	Ultramafic schists
122.11 - 140.00:	Basaltic flow breccia



Figure 3: Photograph of the Par96-01 drill rig, looking North.

4. CONCLUSIONS AND RECOMENDATIONS

In 1995, while conducting reconnaissance geological surveys, we found previously unreported Cu-Zn rich occurrences associated with cherty horizons located in a basaltic sequence. Because of these high values and an interesting geological context, we cut a grid consisting of 10.6 lines/km and covered it with ground geophysical surveys (Mag and MaxMin). Between August 18 and 21, 1996 we drilled two DDH for a total of 325meters.

In Par96-01, we intercepted several thin gold rich zones associated with stringer-type sulfides within a sheared ultramafic or mafic rock. The best intersection was: 15.18gr/t Au and 20.7 ppm Ag on 1.5meter. The geophysical surveys in association with our brief geological mapping of this area shows that this area possesses a complex history with different mineralization types.

Recommendations

Further work is required as follow-up to our drilling and mapping. This area has potential for the presence of either a gold deposit or a base metal deposit.

REFERENCES

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ANNEX 1

Drill logs of Par96-01 and par96-02

Falconbridge Ltée (Rouyn-Noranda)

JOURNAL DE SONDAGE
Propriété: PARENT

Trou no: PAR96-01	Zone: 18	Contracteur: BRADLEY BROS	Débuté le: 18/08/1996															
Claim #: PE1103			Terminé le: 19/08/1996															
Canton : NOUVEAU-QUEBEC	Rang:	Lot:																
Niveau :	Section:	Lieu de travail: SURFACE	Trou proposé: PAR96-01															
Coordonnées au collet:	Ligne : 3+10 E	Latitude: 6826050.00N	Azimut: 180° 0' 0"															
Système de référence : UTM	Station: 3+50 N	Longitude: 489209.00E	Inclinaison: -50° 0' 0"															
		Élévation: 1361.00M	Longueur: 185.00 M															
	Arpenté par: N/A																	
Tests de déviation :	<table border="1"> <thead> <tr> <th>Profondeur</th> <th>Inclinaison</th> <th>Az Corrigé</th> </tr> </thead> <tbody> <tr> <td>50.00 M</td> <td>-50° 0' 0"</td> <td>0° 0' 0"</td> </tr> <tr> <td>100.00 M</td> <td>-48° 0' 0"</td> <td>0° 0' 0"</td> </tr> <tr> <td>150.00 M</td> <td>-47° 0' 0"</td> <td>0° 0' 0"</td> </tr> <tr> <td>185.00 M</td> <td>-46° 0' 0"</td> <td>0° 0' 0"</td> </tr> </tbody> </table>			Profondeur	Inclinaison	Az Corrigé	50.00 M	-50° 0' 0"	0° 0' 0"	100.00 M	-48° 0' 0"	0° 0' 0"	150.00 M	-47° 0' 0"	0° 0' 0"	185.00 M	-46° 0' 0"	0° 0' 0"
Profondeur	Inclinaison	Az Corrigé																
50.00 M	-50° 0' 0"	0° 0' 0"																
100.00 M	-48° 0' 0"	0° 0' 0"																
150.00 M	-47° 0' 0"	0° 0' 0"																
185.00 M	-46° 0' 0"	0° 0' 0"																
Remarques : Casing cap			Débit d'eau: Cimenté : Bouchon : Dimension de la carotte: BQ															

Journal par : D.GIOVENAZZO

Rédigé le: 22/08/1996

Trou no: PAR96-01

DE (M)	A (M)	DESCRIPTION	Echan.	DE (M)	A (M)	Long (M)	Ni ppm	Cu ppm	Co ppm	Fe %	S_tot %
57.54	74.94	Po AGGLOMERATE Tuffaceous unit consisting of monogenic blocs of strongly amygdoidal basalt. Fragments are up to several cm in diameter and are sub rounded. Matrix is strongly chloritized. S1 = 65 C.A. Contains local Po + Sp + Py in calcite veins. Magnetic susceptibilities are 0.4-0.7 58.94 - 60.31 Tuf Massive with 50% Pl crystals, tr. Po diss.									
74.94	113.40	MAPIC TUF- CHLORITE SCHIST Upper contact at 65 C.A. Fine grained pyroclastic, locally laminated, containing abundant Cb + su stringers. Contains 1-5% chlorite spots throughtout with local spotty chlorite alteration. At 80m, S1 = 70 C.A. WHOLE ROCK: A-12873 , 79.0m-79.60m. Finely laminated tuf with chlorite spots.	A-12603 A-12604	75.39 78.65	75.87 79.00	0.41133 0.3110	499 94	93 54		0.44 0.04	
		82.36 - 83.00 5% Po + Sp stringers and veins with calcite.	A-12605	82.36	83.00	0.6928	311	79		1.47	
		83.00 - 86.40 Stringers and veins with 5-10% Po, 1% Py, 1% As and 5% Sp, tr Cp. Silicified. Stringers are mostly at 60-65 C.A.	A-12606 A-12607 A-12608	83.00 84.00 85.00	84.00 85.00 86.40	1.0606 1.0692 1.4693	1225 784 199	68 74 78		1.91 2.26 0.60	
		86.40 - 87.15 Sulfide rich chloritic tuf? Contains 40% Po in thin laminaes with 1-5% graphite. Sedimentary? Strong conductor Magnetic s = 16.0-20.0	A-12609	86.40	87.15	0.7284	323	50		6.96	

DE (M)	A (M)	DESCRIPTION	Echan.	DE (M)	A (M)	Long (M)	Ni ppm	Cu ppm	Co ppm	Fe %	S_tot %
		87.15 - 89.50	A-12610	87.15	88.50	1.3470		310			2.36
		5-10% Po stringers with tr of graphite	A-12611	88.50	89.50	1.0605		72	63		1.01
		96.34 - 98.30 Mafic schist Highly sheared and chloritized tuf. tr diss Py S1 = 70 C.A.									
		102.36 - 103.42 Fault zone Very sheared and chloritic at 45 C.A.									
		103.42 - 103.60 Stringer and vein zone forming 10-20% of total core. Calcite, Qz and Chlorite with 20-25% Po, Arsenopyrite and 5% Sp, tr. Cp. Arsenopyrite seems to replace Po.	A-12612	103.42	104.00	0.5421		242	45		3.02
		103.60 - 103.77 5% diss Po									
		103.77 - 104.00 Stringer zone Starts with a Calcite + Qz + Arsenopyrite + Po vein (1cm). Po stringers in a dark chloritic rock (Chloritized tuf?), tr Cp									
		104.57 - 104.91 Finely disseminated Po, about 50% with 5% Sphalerite Strongly conductive Last few cm contains stringers of Po	A-12613	104.57	104.91	0.3176		547	47		8.35
		104.91 - 106.33 LAMINATED TUF Finely laminated tuf with thin cherty bands (cm-mm). Contains stringers of calcite + Qz + Chlorite. Also contains Po laminae. Magnetic s. = 7-10 Non conductor	A-12614	104.91	106.33	1.489		160	43		1.65
		106.33 - 110.80 Finely laminated tuf ? Contains 1-5% disseminated Po and 1-3% Sphalerite stringers.	A-12615	106.33	107.60	1.258		17	44		0.19
			A-12616	107.60	109.00	1.4226		139	52		1.11
			A-12617	109.00	110.00	1.0777		185	74		0.79
			A-12618	110.00	111.35	1.3679		1838	52		2.18

DB (M)	A (M)	DESCRIPTION	Echan.	DE (M)	A (M)	Long (M)	Ni ppm	Cu ppm	Co ppm	Fe %	S_tot %
		Moderatly chloritized with numerous calcite veins									
		110.80 - 111.35 Stringers 10-15% Po, 1-2% Cp, 1-2% Py in calcite + Qz veins in moderatly to strongly chloritized tuf?. Some of the stringers are parrallel to the core, most of them are at 65 C.A.									
		112.00 - 113.40 Stringers of Py + arsenopyrite? in Cb + Qz veins. Disseminated Py in chloritized tuf.	A-12619	112.00	113.40	1.4485	286	55			0.73
113.40	120.80	01 PYROXENITE Ultramafic intrusion, chloritized, serpentized and carbonatized. Dark green, fine to medium grained. Upper contact diffuse very sheared and altered. Lower contact sharp at 40 C.A.. S1 at 65 C.A. Magnetic s = 50-70. WHOLE ROCK:A-12874, 114.34m-114.80m, mafic schist WHOLE ROCK:A-12875, 116.66m-117.10m, Peridotite	A-12620	117.40	117.80	0.4833	102	77			0.08
120.80	152.46	BASALT Massive flows with local CPx cristals. Locally variolitic. Dark green color, aphanitic. Becomes very schistose from 133.6m with 1% Py cubes disseminated. Abundant Qz+Calcite veins and stringers parrallel to schistosity plans. Some contains Py, Cp in tr.. S1 = 65 C.A Small cherty tuf at 147.12-147.15 Magnetic s = 0.4-4 142.50 - 142.70 Fault zone at 70 C.A.	A-12621	127.50	128.00	0.516	64	17			0.15

Falconbridge Ltée (Rouyn-Noranda)

JOURNAL DE SONDAGE
Propriété: PARRNT

Trou no: PAR96-02 Zone: 18 Contracteur: BRADLEY BROS Débuté le: 21/08/1996
Claim #: Rang: Lot: Terminé le: 22/08/1996
Canton : UNGAVA
Niveau : Section: Lieu de travail: SURFACE Trou proposé: PAR96-02
Coordonnées au collet: Ligne : 5+ 0 E Latitude: 6826049.00N Azimut: 180° 0' 0"
Système de référence : UTM Station: 3+50 N Longitude: 489400.00E Inclinaison: -50° 0' 0"
Elévation: 1396.20M Longueur: 140.00 M

Arpenté par: N/A

Tests de déviation :

Profondeur	Inclinaison	Az Corrigé
4.00 M	-49° 5' 0"	0° 0' 0"
50.00 M	-51° 0' 0"	0° 0' 0"
100.00 M	-51° 0' 0"	0° 0' 0"
140.00 M	-48° 0' 0"	0° 0' 0"

Remarques : Casing cap

Débit d'eau:
Cimenté :
Bouchon :
Dimension de la carotte: BQ

Journal par : D. GIOVENAZZO

Rédigé le: 24/08/1996

Trou no: PAR96-02

DE (M)	A (M)	DESCRIPTION	Echan.	DE (M)	A (M)	Long (M)	Ni ppm	Cu ppm	Co ppm	Fe %	S_tot %
0.00	4.00	<p>PYROXENITE, CASING</p> <p>Medium grained, medium green color. Not magnetic. Massive. Calcite alteration.</p> <p>Magnetic s = 1.0</p>									
4.00	48.66	<p>BASALT</p> <p>Pillowed with coalescing varioles. Local flow breccias and rare massive flows. Irregular Qz + Calcite stringers and local carbonate alteration.</p> <p>Aphyric.</p> <p>Tops are down hole.</p> <p>Flow tops observed at 16.33m (65 C.A.) and 36.25m (75 C.A.)</p> <p>Contains several interflow tufaceous horizons. Po + Cp in stringers and in interpillows.</p> <p>Magnetic s = 0.6-0.9</p>	A-12623	5.00	6.40	1.4105	322	52			0.25
		<p>7.20 - 7.90</p> <p>Stringers.</p> <p>Po + Cp in stringers and veinlets with calcite + Qz. 5% of total core.</p>	A-12624	7.20	7.90	0.793	450	47			1.08
		<p>11.00 - 11.26</p> <p>TUF</p> <p>Fine ash ? tuf pale green and schistose. S1 = 40 C.A. ends with a 1cm wide chert breccia.</p>									
		<p>15.90 - 16.33</p> <p>Flow top, silicified.</p> <p>Contains Po + Cp stringers. Sphalerite stringers present near end of interval.</p>	A-12625	15.90	16.33	0.472	1303	33			1.86
		<p>18.70 - 19.41</p> <p>TUF</p> <p>Fine laminated with some massive passages. Light green color, sericitized and carbonate alteration. Local silicified spots. Contains stringers of calcite + Po + Cp (5%).</p>	A-12626	18.70	19.41	0.795	252	42			0.40

DE (M)	A (M)	DESCRIPTION	Echan.	DE (M)	A (M)	Long (M)	Ni ppm	Cu ppm	Co ppm	Fe %	S_tot %
		Magnetic s = 1-30 WHOLE ROCK: A-12884, 101.0m-101.50m, Chlorite schist WHOLE ROCK: A-12885, 116.0m-116.60m, Ultramafic schist 91.57 - 92.90 Strong talc alteration, very soft and schistose. S1 = 80 C.A. Magnetic s = 0.3-0.4									
		103.03 - 103.66 Strong talc alteration with calcite, very schistose and soft S1 = 80 C.A.	A-12638	95.13	96.60	1.4734	146	78			0.04
122.11	140.00	BASALT Aphyric and Aphanitic to fine grained. Consisting mostly of flow breccia. Contains stringers and veins of Qz + Epidote + calcite. tr. Py. Sericite spots cm Magnetic s = 0.1-0.6 WHOLE ROCK: A-12886, 139.0m-139.60m FIN DU TROU Nombre total d'échantillons : 15 Longueur totale échantillonnée : 17.77	A-12639	104.12	105.62	1.5168	179	44			0.50

ANNEX 2

Surface sample assays and location

Drill sample assays and location

Par96-1

Sample	DDH	UTME	UTMN	Elevation	Type	From (m)	To (m)	Lg. (m)	Ni ppm	Cu ppm	Co ppm	S_tot %	Au ppb	Pt ppb	Pd ppb	Au2O3 ppb	Ag ppm
A-12601	PAR96-01	489209.0	6826031.54	1338.96	6a, str Po	28.50	29.00	0.50	118	443	55	0.34				8	0.6
A-12602	PAR96-01	489209.0	6826027.27	1333.89	6f, str Po, Sp	35.00	35.75	0.80	137	265	54	0.3				14	0.9
A-12603	PAR96-01	489209.0	6826001.09	1303.32	6f, 5% Po diss	75.39	75.87	0.50	1133	499	93	0.44				<5	0.8
A-12604	PAR96-01	489209.0	6825998.99	1300.91	6f, cl spots	78.65	79.00	0.30	110	94	54	0.04				<5	0.1
A-12605	PAR96-01	489209.0	6825996.45	1298.01	6f, str Po, Sp	82.36	83.00	0.60	928	311	79	1.47				5191	4.8
A-12606	PAR96-01	489209.0	6825995.91	1297.39	6f, str Po, Sp	83.00	84.00	1.00	606	1225	68	1.91				487	2.2
A-12607	PAR96-01	489209.0	6825995.25	1296.64	6f, str Po, Sp	84.00	85.00	1.00	692	784	74	2.26				651	1.9
A-12608	PAR96-01	489209.0	6825994.46	1295.74	6f, str Po	85.00	86.40	1.40	693	199	78	0.6				26	0.6
A-12609	PAR96-01	489209.0	6825993.75	1294.93	1c gp, str Po	86.40	87.15	0.80	284	323	50	6.96				72	0.7
A-12610	PAR96-01	489209.0	6825993.05	1294.14	1c gp, str Po	87.15	88.50	1.30	470	310	63	2.36				16	0.4
A-12611	PAR96-01	489209.0	6825992.28	1293.26	1c str Po	88.50	89.50	1.00	605	72	63	1.01				16	0.2
A-12612	PAR96-01	489209.0	6825982.51	1282.27	1c, gp, 40% Po +Sp lam	103.42	104.00	0.60	421	242	45	3.02				4450	5.4
A-12613	PAR96-01	489209.0	6825981.82	1281.50	1c, gp, 40% Po +Sp	104.57	104.91	0.30	176	547	47	8.35				4804	5.3
A-12614	PAR96-01	489209.0	6825981.23	1280.84	1c, Po lam	104.91	106.33	1.40	89	160	43	1.65				169	0.2
A-12615	PAR96-01	489209.0	6825980.33	1279.84	1c, str Po, Py	106.33	107.60	1.30	58	17	44	0.19				29	0.2
A-12616	PAR96-01	489209.0	6825979.44	1278.85	1c, str Po, Py, cl black	107.60	109.00	1.40	226	139	52	1.11				821	0.4
A-12617	PAR96-01	489209.0	6825978.64	1277.96	1c	109.00	110.00	1.00	777	185	74	0.79				54	0.2
A-12618	PAR96-01	489209.0	6825977.85	1277.08	6f (1c) str Po + Cp	110.00	111.35	1.30	679	1838	52	2.18				15176	20.7
A-12619	PAR96-01	489209.0	6825976.5	1275.58	1c str Po+ Sp	112.00	113.40	1.40	485	286	55	0.73				957	1.3
A-12620	PAR96-01	489209.0	6825973.21	1271.94	10c	117.40	117.80	0.40	833	102	77	0.08				<5	0.2
A-12621	PAR96-01	489209.0	6825966.37	1264.44	6a, cl+	127.50	128.00	0.50	16	64	17	0.15				<5	0.2
A-12867	PAR96-01	489209.0	6826050.00	1361.00	10c	0.00	0.00	0.00	1283	42	122	0.04	<1	6	8		
A-12872	PAR96-01	489209.0	6826018.67	1323.75	6a	48.34	49.00	0.70	156	184	65	0.05	5	<5	5		
A-12873	PAR96-01	489209.0	6825998.67	1300.55	1c (6f)	79.00	79.60	0.60	158	58	65	0.03	1	<5	1		
A-12874	PAR96-01	489209.0	6825975.24	1274.19	1c (6f)	114.34	114.80	0.50	827	272	80	0.75	118	7	5		
A-12875	PAR96-01	489209.0	6825973.69	1272.48	10cb	116.66	117.10	0.40	629	219	83	0.03	8	<5	8		

Sample	Zn ppm	Pb ppm	As ppm	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	LOI %	Tt %	Cr ppm	Ba ppm	Sr ppm	Zr ppm	Y ppm
A-12601	862	10	14																	
A-12602	1647	599	149																	
A-12603	120	15	47																	
A-12604	132	12	40																	
A-12605	6133	4509	1930																	
A-12606	4133	286	2640																	
A-12607	3856	270	4240																	
A-12608	493	63	568																	
A-12609	230	12	24																	
A-12610	169	9	84																	
A-12611	176	9	229																	
A-12612	9485	865	>10000																	
A-12613	2384	649	3190																	
A-12614	213	13	121																	
A-12615	147	12	96																	
A-12616	195	42	151																	
A-12617	307	12	594																	
A-12618	7578	1711	>10000																	
A-12619	1589	42	1540																	
A-12620	79	10	34																	
A-12621	86	7	5																	
A-12867				39.74	0.42	6.62	13.98	0.23	24.7	3.84	0.22	0.06	0.04	9.32	99.5	3190	71	9	24	9
A-12872				46.37	1.9	10.9	14.14	0.22	9.78	12.3	1.9	0.34	0.16	1.65	99.79	718	356	180	77	17
A-12873				45.62	1.48	10.05	15.34	0.28	11.92	10.3	1.33	0.25	0.14	2.67	99.54	1045	330	181	51	12
A-12874				44.36	1.49	6.84	13.53	0.36	16.72	10.57	0.29	0.06	0.12	4.19	98.73	1645	251	25	74	8
A-12875				37.38	2.03	9.63	15.84	0.23	21.19	6.5	0.24	0.03	0.19	6.29	99.75	1527	331	26	100	10

Par96-2

Sample	DDH	UTME	UTMN	Elevation	Rock Facies	From (m)	To (m)	Lg. (m)	Ni ppm	Cu ppm	Co ppm	S_tot %	Au ppb	Pt ppb	Pd ppb
A-12623	PAR96-02	489400.0	6826045.3	1391.85	6a, 1% Po	5	6.4	1.4	105	322	52	0.25			
A-12624	PAR96-02	489400.0	6826044.1	1390.44	6a, 1-5% Po+ Cp	7.2	7.9	0.7	93	450	47	1.08			
A-12625	PAR96-02	489400.0	6826038.6	1383.89	6a, flow top si+,str Po + Sp	15.9	16.33	0.4	72	1303	33	1.86			
A-12626	PAR96-02	489400.0	6826036.7	1381.63	6f(1c),str Po + Sp	18.7	19.41	0.7	95	252	42	0.4			
A-12628	PAR96-02	489400.0	6826026.9	1369.74	6f + 3i, str Po +Hm	33.91	35.07	1.2	103	285	36	0.07			
A-12629	PAR96-02	489400.0	6826013.7	1353.57	6f(1c),str Po + Sp	54.5	56.2	1.7	144	612	53	0.63			
A-12630	PAR96-02	489400.0	6826010.1	1349.07	6f(1c),str Po + Sp	60.4	61.9	1.5	451	176	68	0.52			
A-12631	PAR96-02	489400.0	6826009.1	1347.90	6f(1c),str Po + Sp	61.9	63.4	1.5	267	207	62	0.57			
A-12632	PAR96-02	489400.0	6826008.4	1347.08	6f(1c),str Po + As	63.4	64	0.6	415	158	70	1.22			
A-12634	PAR96-02	489400.0	6825997.0	1332.94	6f(1c),str Po	81.28	82.5	1.2	69	69	50	0.34			
A-12635	PAR96-02	489400.0	6825995.6	1331.18	6f(1c),str Po	83.4	84.9	1.5	92	148	59	1.28			
A-12636	PAR96-02	489400.0	6825993.6	1328.73	6f(1c),str Po	86.62	88	1.4	67	221	30	4.9			
A-12637	PAR96-02	489400.0	6825992.8	1327.81	6f(1c) gp, Po lam	88	89	1	77	161	36	2.36			
A-12638	PAR96-02	489400.0	6825988.2	1322.11	6f(1c),str Po	95.13	96.6	1.5	734	146	78	0.04			
A-12639	PAR96-02	489400.0	6825982.5	1315.16	6f(1c),str Po	104.12	105.6	1.5	168	179	44	0.5			
A-12627	PAR96-02	489400.0	6826034.7	1379.22	6b, varioles	22.03	22.35	0.3	121	179	57		<1	<5	<1
A-12882	PAR96-02	489400.0	6826020.9	1362.42	6f xt Pl	43.8	44.1	0.3	108	109	42	0.07	3	6	8
A-12883	PAR96-02	489400.0	6826011.2	1350.52	6f cl+	59	59.55	0.5	750	206	93	0.4	21	11	11
A-12884	PAR96-02	489400.0	6825984.8	1317.95	1c	101	101.5	0.5	745	119	83	<0.02	3	5	5
A-12885	PAR96-02	489400.0	6825975.1	1306.39	10f	116	116.6	0.6	895	125	89	0.09	5	5	8
A-12886	PAR96-02	489400.0	6825960.05	1289.01	6a	139	139.6	0.6	783	143	79	0.07	6	11	18

Sample	Au2O3 ppb	Ag ppm	Zn ppm	Pb ppm	As ppm	SiO2 %	TiO2 %	Al2O3 %	Fe2O3 %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	LOI %	Ti %	Cr ppm	Ba ppm	Sr ppm	Zr ppm	Y ppm	
A-12623	16	0.4	231	28	53																		
A-12624	238	0.4	255	35	1330																		
A-12625	286	2.3	4950	1008	671																		
A-12626	16	0.5	618	171	79																		
A-12628	6	0.3	153	7	35																		
A-12629	16	0.6	148	9	46																		
A-12630	461	0.2	530	85	691																		
A-12631	75	<01	198	30	178																		
A-12632	871	0.3	373	122	9150																		
A-12634	12	<0.1	163	17	35																		
A-12635	123	0.3	129	13	34																		
A-12636	33	0.3	143	15	34																		
A-12637	43	<0.1	200	14	84																		
A-12638	<5	<0.1	102	11	2.9																		
A-12639	<5	<0.1	91	11	25																		
A-12627						45.09	2.40	12.04	14.98	0.21	8.09	12.77	2.36	0.67	0.19	1.04	99.95	360	450	194	110	15	
A-12882						46.89	0.71	13.62	10.4	0.16	8.91	10.71	3.39	0.47	0.18	4.46	100.00	3387	441	439	35	14	
A-12883						43.3	1.63	7.87	14.17	0.23	16.2	11.15	0.39	0.09	0.14	3.98	99.39	2156	286	104	77	10	
A-12884						40.66	1.58	8.01	13.34	0.18	17.3	8.96	0.19	2.09	0.15	6.73	99.43	1340	612	162	85	7	
A-12885						42.23	1.12	7.78	13.4	0.19	18.6	8.86	0.35	1.09	0.09	5.41	99.35	1447	372	173	55	7	
A-12886						43.73	0.48	12.09	10.08	0.16	11.6	12.06	1.65	0.72	0.03	6.23	99.10	2103	507	95	22	9	

Gridparent

Sample	Type	Zone	NTS	UTME	UTMN	Projet	Permit	Rock Facies	Code	Mineralization	Lab	Year
KM2252	EC	18	35G/11	489338	6824403	PN116	PE1103	CbFe+ sheared basalt	6a	1-2% Py diss	Chimitec	1996
KM2253	EC	18	35G/11	489148	6826008	PN116	PE1103	Chert	3i	5% Cp + Sp stringers	Chimitec	1996
KM2254	EC	18	35G/11	489125	6826017	PN116	PE1103	Chert	3i	5% Cp + Sp stringers +Asp	Chimitec	1996
KM2255	EC	18	35G/11	489215	6826012	PN116	PE1103	Chert	3i	5% Cp + Sp stringers +Asp	Chimitec	1996
KM2256	EC	18	35G/11	489210	6826030	PN116	PE1103	Chert	3i	15% Sp + 5% Cp stringers	Chimitec	1996
KM2257	EC	18	35G/11	489212	6826031	PN116	PE1103	Silicified Basalt	6	20% Sp + 5% Cp in Stringers	Chimitec	1996
KM2260	EC	18	35G/11	489120	6825940	PN116	PE1103	Tuf breccia/Flow	6ef	40% Po, 1-5% Cp	Chimitec	1996
52130	EC	18	35G/11	489177	6826013	PN116	PE1103	rhyolite?	5a	patches and diss of Po + Cp (5% total)	Chimitec	1995
52131	EC	18	35G/11	489215	6826015	PN116	PE1103	chert	3a	20-25% Cp, Sp and Ga	Chimitec	1995
52132	EC	18	35G/11	489213	6826029	PN116	PE1103	Chert	3i	15% Cp, Sp and Ga	Chimitec	1995
52133	EC	18	35G/11	489215	6826028	PN116	PE1103	Chert	3i	heavily diss (30%) Po, Sp and Cp	Chimitec	1995
52134	EC	18	35G/11	489219	6825974	PN116	PE1103	Chert	3i	30% Po	Chimitec	1995
52135	EC	18	35G/11	489222	6826009	PN116	PE1103	Peridotite	10b	Po and Cp	Chimitec	1995
52136	EC	18	35G/11	489359	6825984	PN116	PE1103	Chert	3i	semi-massive Cp	Chimitec	1995
52137	EC	18	35G/11	489366	6825994	PN116	PE1103	Chloritized basalt	6 ch	5% each Cp and Sp	Chimitec	1995
52138	EC	18	35G/11	489366	6826006	PN116	PE1103	Chert	3i	Cp	Chimitec	1995
KM2261	EC	18	35G/11	489404	6826000	PN116	PE1103	Tuf fine	5g	10-15% Po+Cp+Py diss	Chimitec	1996
KM2262	EC	18	35G/11	489514	6826002	PN116	PE1103	Cherty tuf	3i	5% Po+Cp	Chimitec	1996
KM2263	EC	18	35G/11	489400	6826010	PN116	PE1103	Felsic tuf	5f	1-2% Cp diss, stringers Asp	Chimitec	1996
52370	WR	18	35G/11	489175	6826018	PN116	PE1103	Basalt	6a		Chimitec	1995
52371	WR	18	35G/11	489307	6826036	PN116	PE1103	Peridotite	10b		Chimitec	1995
52372	WR	18	35G/11	489365	6826035	PN116	PE1103	Peridotite	10b		Chimitec	1995

Gridparent

Sample	SiO2 %	TiO2 %	Al2O3 %	Fe2O3* %	MnO %	MgO %	CaO %	Na2O %	K2O %	P2O5 %	LOI	Total	Cr ppm	Ba ppm	Sr ppm	Zr ppm	Y ppm
KM2252																	
KM2253																	
KM2254																	
KM2255																	
KM2256																	
KM2257																	
KM2260																	
52130																	
52131																	
52132																	
52133																	
52134																	
52135																	
52136																	
52137																	
52138																	
KM2261																	
KM2262																	
KM2263																	
52370	45.35	2.29	11.8	14.63	0.23	10.45	11.02	1.28	0.29	0.18	2.04	99.72	883	409	176	100	16
52371	40.62	1.01	4.79	12.39	0.18	25.73	8.08	0.15	0.02	0.07	6.48	99.86	3171	185	38	45	8
52372	40.31	1.4	5.72	12.7	0.22	23.3	8.93	0.13	0.03	0.11	5.4	98.56	2715	266	64	52	5

Gridparent

Sample	Ag ppm	Au30 ppb	Au ppb	Pd ppb	Pt ppb	Zn ppm	Pb ppm	Co ppm	Cu ppm	Ni ppm	S_Tot %	As ppm	Au gr/t
KM2252	0.6	16				117.0	7.0	37.0	562.0	21.0	0.08	3.8	
KM2253	2.2	372				19582.0	78.0	54.0	1968.0	388.0	7.05	2770.0	
KM2254	1.7	1896				2817.0	97.0	19.0	1437.0	40.0	2.6	>1%	2.18
KM2255	3.3	3147				3007.0	343.0	15.0	847.0	71.0	1.25	>1%	2.99
KM2256	7.3	42				>2%	832.0	81.0	8370.0	146.0	13.48	64.0	
KM2257	1.3	79				4530.0	12.0	46.0	3640.0	75.0	1.72	110.0	
KM2260	1.4	99				214.0	38.0	62.0	556.0	188.0	15.58	50.0	
52130	0.20	101				718.0	10.0	49.0	164.0	128.0	0.23		
52131	8.10	74				35500.0	743.0	41.0	13707.0	92.0	6.24		
52132	20.20	327				14202.0	7004.0	21.0	15272.0	42.0	3.91		
52133	10.00	35				64000.0	1574.0	123.0	9363.0	219.0	16.52		
52134	0.10	5				98.0	19.0	24.0	247.0	101.0	7.42		
52135	0.10	5				163.0	13.0	71.0	138.0	109.0	0.13		
52136	34.30	1160				3314.0	25.0	37.0	31700.0	21.0	4		
52137	13.20	28				5680.0	110.0	91.0	13300.0	704.0	3.51		
52138	1.80	18				1760.0	28.0	38.0	507.0	766.0	14.27		
KM2261	<0.1	36				310.0	21.0	24.0	53.0	86.0	1.45	41.0	
KM2262	9.8	1133				3782.0	>1%	40.0	877.0	70.0	4.58	>1%	1.11
KM2263	0.4	72				361.0	22.0	30.0	643.0	102.0	1.02	26.0	
52370			1	2	5			58	36	337	0.09		
52371			104	5	5			99	9	1215	0.05		
52372			180	9	8			84	18	1347	0.12		

REPORT: C95-61629.5 (COMPLETE)

REFERENCE: 00241

CLIENT: FALCONBRIDGE LTEE.
PROJECT: AUCUN

SUBMITTED BY: DG
DATE PRINTED: 25-AUG-95

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Cu Copper	1	0.01 PCT	HF-HCL-HNO3	AAS LOW LEVEL ASSAY
2	Zn Zinc	2	0.01 PCT	HF-HCL-HNO3	AAS LOW LEVEL ASSAY

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
ROCK	3	-150	3	AS RECEIVED	3

REPORT COPIES TO: DANIELLE GIOVENAZZO
PAR FAX: 819-797-6994

INVOICE TO: DANIELLE GIOVENAZZO

3X6
78
-0256

CHIMITEC LEE

CERTIFICAT D'ANALYSE

REPORT: C95-61629.5 (COMPLETE)

DATE PRINTED: 25-AUG-95

PROJECT: AUCUN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PCT	Zn PCT
52131			3.55
52133			6.40
52136		3.17	

1322 rue Harricana
Val d'Or, Québec J9P 3X6
Tél: (819) 825-0178
Fax: (819) 825-0256



Inchcape Testing Services

Chimitec Ltée

CERTIFICAT
D'ANALYSE

CLIENT: FALCONBRIDGE LTEE.
REPORT: C96-63255.1 (COMPLETE)

PROJECT: AUCUN
DATE PRINTED: 9-SEP-96 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU G/T
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A-12618		14.13
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Harricana
Québec J9P 3X6
(819) 825-0178
(819) 825-0256



Inchcape Testing Services

Chimitec Ltée

CERTIFICAT
D'ANALYSE

CLIENT: FALCONBRIDGE LTEE.
REPORT: C96-63167.1 (COMPLETE)

PROJECT: AUCUN
DATE PRINTED: 13-SEP-96 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	AU G/T
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A-12605		5.18
A-12612		3.89
A-12613		4.13

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CERTIFICAT
D'ANALYSE

CLIENT: FALCONBRIDGE LTEE.

PROJECT: AUCUN

REPORT: C96-63246.0 (COMPLETE)

DATE PRINTED: 12-SEP-96

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM	Au30 PPB	Ag PPM	As PPM	S Tot PCT
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A-12622		292	2888	10265	13	115	46	0.9	2.2	4.43	ST
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CERTIFICAT
D'ANALYSE

CLIENT: FALCONBRIDGE LTEE.

PROJECT: AUCUN

REPORT: C96-63255.0 (COMPLETE)

DATE PRINTED: 18-SEP-96

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM	Au30 PPB	Ag PPM	As PPM	S Tot PCT
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A-12615		44	17	58	12	147	29	0.2	96.0	0.19
A-12616		52	139	226	42	195	821	0.4	151.0	1.11
A-12617		74	185	777	12	307	54	0.2	594.0	0.79
A-12618		52	1838	679	1711	7578	15176	20.7	>10000	2.18
A-12619		55	286	485	42	1589	957	1.3	1540.0	0.73

A-12620		77	102	833	10	79	<5	0.2	34.0	0.08
A-12621		17	64	16	7	86	<5	0.2	5.0	0.15
A-12623		52	322	105	28	231	16	0.4	53.0	0.25
A-12624		47	450	93	35	255	238	0.4	1330.0	1.08
A-12625		33	1303	72	1008	4950	286	2.3	671.0	1.86

A-12626		42	252	95	171	618	16	0.5	79.0	0.40
A-12628		36	285	103	7	153	6	0.3	35.0	0.07
A-12629		53	612	144	9	148	16	0.6	46.0	0.63

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CERTIFICAT
 D'ANALYSE

REPORT: C96-63255.0 (COMPLETE)

REFERENCE: 625

CLIENT: FALCONBRIDGE LTEE.
 PROJECT: AUCUN

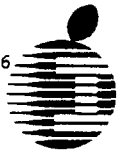
SUBMITTED BY: D. GIOVENAZZO
 DATE PRINTED: 18-SEP-96

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Co Cobalt	13	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
2	Cu Copper	13	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
3	Ni Nickel	13	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
4	Pb Lead	13	2 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
5	Zn Zinc	13	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
6	Au30 Gold	13	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
7	Ag Silver	13	0.1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
8	As Arsenic	13	1.0 PPM		NEUTRON ACTIVATION
9	S Tot Sulphur (Total)	13	0.02 PCT		LECO

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
DRILL CORE	13	-150	13	CRUSH/SPLIT & PULV.	13

REPORT COPIES TO: DANIELLE GIOVENAZZO
 PAR FAX:819-797-6994

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Inchcape Testing Services

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CERTIFICAT
 D'ANALYSE

CLIENT: FALCONBRIDGE LTEE.
 REPORT: C96-63251.0 (COMPLETE)

PROJECT: AUCUN
 DATE PRINTED: 18-SEP-96 PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM	Au30 PPB	Ag PPM	As PPM	S Tot PCT
A-12630		68	176	451	85	530	461	0.2	691.0	0.52
A-12631		62	207	267	30	198	75	<0.1	178.0	0.57
A-12632		70	158	415	122	373	871	0.3	9150.0	1.22
A-12634		50	69	69	17	163	12	<0.1	35.0	0.34
A-12635		59	148	92	13	129	123	0.3	34.0	1.28
A-12636		30	221	67	15	143	33	0.3	34.0	4.90
A-12637		36	161	77	14	200	43	<0.1	84.0	2.36
<i>PR-2</i> A-12638		78	146	734	11	102	<5	<0.1	2.9	0.04
A-12639		44	179	168	11	91	<5	<0.1	25.0	0.50
<u>A-12641</u>		78	145	668	8	203	<5	<0.1	13.0	2.45
<i>EV-4</i> A-12643		50	771	706	61	5495	79	0.3	41.0	23.73
A-12644		66	441	370	147	4519	47	1.1	195.0	36.56
A-12645		65	516	367	90	2800	26	0.5	155.0	23.95
A-12646		47	285	364	7	176	<5	<0.1	19.0	4.74

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CERTIFICAT
 D'ANALYSE

CLIENT: FALCONBRIDGE LTEE. PROJECT: AUCUN
 REPORT: C96-63422.0 (COMPLETE) DATE PRINTED: 25-SEP-96 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Cu PPM	Ni PPM	Au PPB	Pd PPB	Pt PPB	S Tot PCT	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT
2 A-12854		93	22	925	3	4	<5	<0.02	43.30	0.44	7.89	13.17	0.20
1 A-12857		81	29	742	<1	7	8	<0.02	44.10	0.47	8.38	12.61	0.21
3 A-12867		122	42	1283	<1	8	6	0.04	39.74	0.42	6.62	13.98	0.23
3 A-12868		121	54	1168	3	3	<5	0.52	41.55	0.41	6.68	14.37	0.22
1 A-12872		65	184	156	5	5	<5	0.05	46.37	1.90	10.90	14.14	0.22
PAR 1 A-12873		65	58	158	1	1	<5	0.03	45.62	1.48	10.05	15.34	0.28
A-12874		80	272	827	118	5	7	0.75	44.36	1.49	6.84	13.53	0.36
A-12875		83	219	629	8	8	<5	0.03	37.38	2.03	9.63	15.84	0.23
A-12882		42	109	108	3	8	6	0.07	46.89	0.71	13.62	10.40	0.16
A-12883		93	206	750	21	11	11	0.40	43.30	1.63	7.87	14.17	0.23
PAR 2 A-12884		83	119	745	3	5	5	<0.02	40.66	1.58	8.01	13.34	0.18
A-12885		89	125	895	5	8	5	0.09	42.23	1.12	7.78	13.40	0.19
A-12886		79	143	783	6	18	11	0.07	43.73	0.48	12.09	10.08	0.16

A. Deschambault



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CLIENT: FALCONBRIDGE LTEE. PROJECT: AUCUN
 REPORT: C96-63421.0 (COMPLETE) DATE PRINTED: 27-SEP-96 PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr PPM	Ba PPM	Sr PPM	Zr PPM	Y PPM
2 A-12627		8.09	12.77	2.36	0.67	0.19	1.04	99.95	360	450	194	110	15
3 A-12772		21.70	6.69	0.12	0.02	0.06	6.29	99.53	2818	133	<5	33	12
3 A-12773		21.31	7.84	0.12	0.02	0.06	8.19	99.34	2101	119	34	36	<5
3 A-12781		23.69	2.99	0.12	0.02	0.05	7.33	98.06	3151	130	6	29	8
2 A-12791		22.25	5.34	0.15	0.02	0.06	7.17	99.46	2696	94	<5	34	6
2 A-12796		26.33	4.05	0.14	0.04	0.04	8.93	98.48	2930	143	9	22	<5
2 A-12853		23.68	4.08	0.14	0.04	0.04	7.84	99.25	2783	97	<5	25	5
KMKE-2015		17.72	10.52	1.03	0.17	0.06	2.34	98.90	1978	209	160	37	10
KMKE-2016		4.88	8.30	3.90	0.44	0.37	0.76	99.79	170	369	596	139	14
KMKE-2017		8.82	11.90	0.93	0.31	0.10	1.37	99.23	601	205	190	32	8
KMKE-2018		4.48	8.97	4.10	0.22	0.35	0.39	99.40	155	382	692	66	11
KMKE-2019		4.08	7.88	4.20	0.54	0.29	0.27	99.93	140	385	633	63	12
KMKE-2020		4.22	7.75	3.99	0.64	0.31	0.26	100.15	181	391	602	86	14
KMKE-2021		10.53	12.72	2.04	0.58	0.53	1.16	99.80	651	396	626	97	21
KMKE-2022		9.36	8.93	2.50	0.40	0.10	1.13	99.46	764	298	108	56	10
KMKE-2023		6.93	10.57	1.40	0.65	0.13	0.62	99.77	271	210	324	20	7
KMKE-2025		29.38	2.23	0.13	0.08	0.03	9.98	98.97	3017	81	<5	14	<5

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CLIENT: FALCONBRIDGE LTEE.

PROJECT: AUCUN

REPORT: C96-63034.0 (COMPLETE)

DATE PRINTED: 14-SEP-96

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM	Au30 PPB	Ag PPM	As PPM	S Tot PCT
KM-2238		36	454	51	10	101	10	0.2	19.0	0.88
KM-2239		91	1491	50	15	43	<5	0.4	4.1	11.34
KM-2240		23	285	71	15	253	<5	0.2	<1.0	2.00
KM-2241		19	242	71	15	396	<5	0.4	<1.0	2.15
KM-2242		125	3207	39	18	71	85	0.5	<1.0	8.76
KM-2243		71	3111	28	15	82	44	1.0	1.2	4.18
KM-2245		248	2660	9020	18	118	79	0.6	1.5	4.61
KM-2252		49	46	205	13	162	<5	<0.1	24.0	0.05
KM-2253		54	1968	388	78	19582	372	2.2	2770.0	7.05
KM-2254		19	1437	40	97	2817	1896	1.7	>10000	2.60
KM-2255		15	847	71	343	3007	3147	3.3	>10000	1.25
KM-2256		81	8370	146	832	>20000	42	7.3	64.0	13.48
KM-2260		62	556	188	38	214	99	1.4	50.0	15.58
KM-2261		24	53	86	21	310	36	<0.1	41.0	1.45
KM-2262		40	877	70	>10000	3782	1133	9.8	>10000	4.58
KM-2263		30	643	102	22	361	72	0.4	26.0	1.02

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CERTIFICAT
 D'ANALYSE

CLIENT: FALCONBRIDGE LTEE.

PROJECT: AUCUN

REPORT: C96-62901.0 (COMPLETE)

DATE PRINTED: 30-AUG-96

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM	Au30 PPB	Ag PPM	As PPM	S Tot PCT
KM-2215		27	550	77	7	116	17	0.2	4.8	0.68
KM-2216		54	299	33	6	85	9	0.1	<1.0	3.37
KM-2227		27	227	42	11	134	9	0.2	2.5	2.06
KM-2228		32	285	110	10	228	35	0.4	<1.0	3.47
KM-2230		35	648	250	218	791	24	0.9	30.0	3.96
<i>Falcon Lt</i> KM-2231		16	527	89	24	258	11	0.3	2.2	2.85
	KM-2232	54	1206	415	24	541	107	1.2	2.4	17.27
	KM-2233	145	2498	287	19	115	46	2.7	<1.0	12.47
	KM-2235	38	394	57	12	218	12	0.3	1.8	1.70
	KM-2257	46	3640	75	12	4530	79	1.3	110.0	1.72
KM-2258		276	2971	9941	11	124	34	0.7	2.4	3.98
KC-2362		44	73	69	13	98	25	0.2	9.1	1.14
KC-2364		26	29	15	9	14	14	0.5	14.0	2.41
KC-2367		42	99	14	24	19	7	<0.1	6.6	4.32
KC-2370		22	82	4	7	21	6	<0.1	14.0	1.48
KC-2372		21	12	6	6	35	8	<0.1	12.0	1.38
KM-2602		60	40	26	5	105	<5	<0.1	<1.0	0.10
KM-2603		38	66	85	8	86	<5	<0.1	<1.0	0.08
KM-2605		48	73	38	3	62	<5	<0.1	<1.0	3.67
KM-2606		34	100	100	10	89	<5	<0.1	<1.0	0.18
KM-2607		47	76	43	11	164	<5	<0.1	2.0	0.44

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CHIMITEC LEE

RAPPORT D'ANALYSE GÉOCHIMIQUE

REPORT: C95-61628.0 (COMPLETE)

REFERENCE: 00241

CLIENT: FALCONBRIDGE LTEE.

SUBMITTED BY: DG

PROJECT: AUCUN

DATE PRINTED: 1-SEP-95

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Co	Cobalt	17	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
2	Cu	Copper	17	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
3	Ni	Nickel	17	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
4	Au	Gold - Fire Assay	17	1 PPB	FIRE ASSAY	FIRE ASSAY-DCP
5	Pd	Palladium	17	1 PPB	FIRE ASSAY	FIRE ASSAY-DCP
6	Pt	Platinum	17	5 PPB	FIRE ASSAY	FIRE ASSAY-DCP
7	S Tot	Sulphur (Total)	17	0.02 PCT		LECO
8	SiO2	Silica (SiO2)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
9	TiO2	Titanium (TiO2)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
10	Al2O3	Alumina (Al2O3)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
11	Fe2O3*	Total Iron (Fe2O3)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
12	MnO	Manganese (MnO)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
13	MgO	Magnesium (MgO)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
14	CaO	Calcium (CaO)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
15	Na2O	Sodium (Na2O)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
16	K2O	Potassium (K2O)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
17	P2O5	Phosphorous (P2O5)	17	0.01 PCT	BORATE FUSION	XRAY FLUORESCENCE
18	LOI	Loss on Ignition	17	-0.20 PCT	Ignition 1000 Deg. C	GRAVIMETRIC
19	Total	Whole Rock Total	17	0.01 PCT		
20	Cr	Chromium	17	10 PPM	BORATE FUSION	XRAY FLUORESCENCE
21	Ba	Barium	17	10 PPM	BORATE FUSION	XRAY FLUORESCENCE
22	Sr	Strontium	17	5 PPM	BORATE FUSION	XRAY FLUORESCENCE
23	Zr	Zirconium	17	5 PPM	BORATE FUSION	XRAY FLUORESCENCE
24	Y	Yttrium	17	5 PPM	BORATE FUSION	XRAY FLUORESCENCE

REPORT: C95-61628.0 (COMPLETE)

DATE PRINTED: 1-SEP-95

PROJECT: AUCUN

PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Cu PPM	Ni PPM	Au PPB	Pd PPB	Pt PPB	S Tot PCT	SiO2 PCT	TiO2 PCT	Al2O3 PCT	Fe2O3* PCT	MnO PCT
52365-		52	101	171	<1	4	<5	0.02	45.78	1.35	13.41	10.53	0.14
52366-		39	193	39	1	3	<5	0.03	46.63	1.13	17.23	11.39	0.14
52367-		49	39	97	<1	<1	<5	<0.02	48.86	0.99	10.25	11.18	0.20
52368-		48	35	73	<1	<1	<5	0.02	47.99	2.50	13.30	15.43	0.19
52369-		76	59	754	1	17	11	0.02	48.11	0.54	13.23	11.49	0.19
52370-		58	36	337	<1	2	<5	0.09	45.35	2.29	11.80	14.63	0.23
52371-		99	9	1215	104	5	5	0.05	40.62	1.01	4.79	12.39	0.18
52372-		84	18	1347	180	9	8	0.12	40.31	1.40	5.72	12.70	0.22
52822		75	158	27	1	<1	<5	0.02	40.49	0.81	14.33	20.10	0.22
52823		142	35	1996	5	210	23	0.14	39.74	0.10	2.51	9.85	0.12
52824		43	3	48	<1	<1	<5	<0.02	48.86	1.02	12.88	13.30	0.20
52825-		82	33	731	1	5	<5	0.02	43.94	0.23	7.77	9.19	0.15
53971-		102	22	1160	<1	10	7	0.06	40.11	0.39	5.71	12.93	0.21
53972-		161	479	1472	25	240	60	0.36	37.86	0.25	2.79	14.05	0.17
53973-		113	10	1552	1	7	10	0.02	38.76	0.25	4.21	12.46	0.19
53974-		121	8	1772	1	11	8	0.04	39.14	0.33	3.86	11.69	0.17
53975		110	10	1135	1	3	10	0.07	40.56	<0.01	0.56	9.24	0.17

REPORT: C95-61628.0 (COMPLETE)

DATE PRINTED: 1-SEP-95

PROJECT: AUCUN

PAGE 1B

SAMPLE NUMBER	ELEMENT UNITS	MgO PCT	CaO PCT	Na2O PCT	K2O PCT	P2O5 PCT	LOI PCT	Total PCT	Cr PPM	Ba PPM	Sr PPM	Zr PPM	Y PPM
52365		7.57	13.01	2.43	0.25	0.19	4.72	99.56	733	352	671	78	14
52366		6.62	9.22	2.60	0.84	0.17	3.39	99.45	62	396	369	29	9
52367		10.45	13.08	1.91	0.13	0.08	1.99	99.27	1101	217	150	43	14
52368		5.89	8.74	2.71	0.42	0.27	1.98	99.51	151	433	165	136	23
52369		11.69	9.59	1.51	0.44	0.04	2.40	99.47	2147	160	71	20	15
52370		10.45	11.02	1.28	0.29	0.18	2.04	99.72	883	409	176	100	16
52371		25.73	8.08	0.15	0.02	0.07	6.48	99.86	3171	185	38	45	8
52372		23.30	8.93	0.13	0.03	0.11	5.40	98.56	2715	266	64	52	5
52822		9.41	9.62	0.21	0.04	0.01	4.41	99.69	57	149	170	7	5
52823		35.65	0.06	0.13	0.02	0.02	11.53	99.94	2043	19	7	9	10
52824		7.48	10.83	2.31	0.06	0.02	1.78	98.78	115	193	116	12	13
52825		22.12	11.25	0.52	0.06	0.02	4.45	99.93	2148	77	61	12	8
53971		27.87	4.03	0.19	0.08	0.03	8.19	100.07	3208	71	21	22	6
53972		31.27	0.86	0.11	0.02	0.02	11.13	98.79	2558	35	14	11	5
53973		31.63	3.41	0.18	0.09	0.03	8.42	100.00	3573	128	16	15	7
53974		32.80	1.45	0.12	0.02	0.03	10.00	100.00	3841	73	9	18	8
53975		34.45	2.23	0.13	0.02	0.01	12.07	99.88	4432	<10	8	8	<5

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CHIMITEC LTEE

RAPPORT D'ANALYSE GÉOCHIMIQUE

REPORT: C95-61629.0 (COMPLETE)

REFERENCE: 00241

CLIENT: FALCONBRIDGE LTEE.
PROJECT: AUCUN

SUBMITTED BY: DG
DATE PRINTED: 28-AUG-95

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Co Cobalt	21	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
2	Cu Copper	21	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
3	Ni Nickel	21	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
4	Pb Lead	21	2 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
5	Zn Zinc	21	1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
6	Au30 Gold	21	5 PPB	Fire Assay of 30g	30g Fire Assay - AA
7	Ag Silver	21	0.1 PPM	HF-HNO3-HCLO4-HCL	ATOMIC ABSORPTION
8	As Arsenic	21	1.0 PPM		NEUTRON ACTIVATION
9	s Tot Sulphur (Total)	21	0.02 PCT		LECO

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
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ROCK	21	-150	21	CRUSH/SPLIT & PULV.	21
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REPORT COPIES TO: DANIELLE GIOVENAZZO
PAR FAX: 819-797-6994

INVOICE TO: DANIELLE GIOVENAZZO

REPORT: C95-61629.0 (COMPLETE)

DATE PRINTED: 28-AUG-95

PROJECT: AUCUN

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Co PPM	Cu PPM	Ni PPM	Pb PPM	Zn PPM	Au30 PPB	Ag PPM	As PPM	S Tot PCT
52130-		49	164	128	10	718	101	0.2	67.0	0.23
52131-		41	13707	92	743	>20000	74	8.1	120.0	6.24
52132-		21	15272	42	7004	14202	327	20.2	1120.0	3.91
52133-		123	9363	219	1574	>20000	35	10.0	52.0	16.52
52134-		24	247	101	19	98	<5	0.1	<1.0	7.42
52135-		71	138	109	13	163	<5	<0.1	34.0	0.13
52136-		37	>20000	21	25	3314	1160	34.3	1150.0	4.00
52137-		91	13300	704	110	5680	28	13.2	238.0	3.51
52138-		38	507	766	28	1760	18	1.8	53.0	14.27
52139-		16	2864	21	163	57	15	3.0	60.0	2.08
52140-		5	63	3	17	26	10	0.3	31.0	2.96
52141-		2	56	1	26	39	<5	0.4	36.0	3.31
52142-		3	20	7	27	66	<5	<0.1	11.0	3.14
52143-		2	20	5	46	483	<5	1.9	6.0	1.45
52144-		3	16	<1	23	82	<5	0.4	59.0	3.02
52583		34	335	215	34	563	138	1.5	419.0	10.76
52584		32	775	750	24	2632	43	1.2	9.4	18.90
53591-		20	91	78	13	139	<5	0.3	34.0	4.18
53592-		5	93	20	3	60	<5	0.2	<1.0	0.28
53596		22	137	97	37	269	39	0.8	62.0	10.91
53597		10	236	91	6	135	15	0.1	8.4	5.58

ANNEX 3

Map1: Geological map of the Parent grid (1: 2,000)

Map2: Calculated vertical gradient map with EM conductor axis, drill location and outcrops (1: 2,000).

Map3: Interpreted Drill Section 489209mE (1: 1,000)

Map4: Interpreted Drill Section 489400mE (1: 1,000)