GM 43273

GEOLOGICAL WORK & ORE RESERVE CALCULATION ON THE LOUVICOURT PROPERTY

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ABITIBI RESOURCES LTD

MID CANADA GOLD & COPPER MINES LTD

JOINT VENTURE

GEOLOGICAL WORK

&

ORE RESERVE CALCULATION

ON THE

LOUVICOURT PROPERTY

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOÛT 1986
VAL D'OR
MINES

LOUVICOURT TOWNSHIP, NORTHWESTERN QUEBEC

Ministère de l'Énergie et des Ressources
Service de la Géoinformation
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APRIL 30, 1986

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REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.,

SUMMARY

The LOUVICOURT property presently owned by MID-CANADA GOLD AND COPPER MINES LTD is located in the southern part of the Abitibi Greenstone Belt which is well known for its gold and base metal deposits. The property consists of 51 contiguous claims and three mining concessions. It covers an area of 2415 acres and encompasses the abandoned Bevcon and Buffadison gold mines.

During 1985, MID-CANADA GOLD AND COPPER MINES LTD in a joint venture with ABITIBI RESOURCES LTD carried out a progarm of linecutting, geophysics and diamond drilling. A total of 29,008 feet of diamond drilling was completed on the property. Of this total, 17,193 feet was concentrated on the former Buffadison property in order to further explore and possibly increase ore reserves on a partially developed system of mineralized quartz veins. This zone was partly explored in the late 1940's and then in the 1960's.

The remainder of the drilling was put down on various exploration targets

throughout the property. Several interesting zones were identified, most notably in the south rhyolitic zone close to the former Abitibi Copper property.

Ore reserves on the former Buffadison property are currently estimated at 584,859 tons of proven, probable and inferred mineable ore averaging 0.12 oz/ton gold. The estimated reserves for the Bevcon property are 734,679 tons of 0.114 oz/ton gold (McIsaac, 1968). The total reserve estimate for the Bevcon and Buffadison deposits is therefore 1,319,538 tons averaging 0.116 oz/ton gold.

Based on the encouraging results obtained from the 1985 program, further exploration work is recommended to prove ore reserves between the 1000 and 2000 foot levels and the former Buffadison area. This would consist of dewatering the existing mine shafts and rehabilitating the underground workings. From underground, the ore reserve estimates may be confirmed. The gold-bearing structures outlined from surface drilling and previous development work may also be confirmed.

REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.,

This program would involve two major phases which consist of surface construction and underground rehabilitation (Phase I) and detailed exploration work (Phase II). A production feasibility study (Phase III) will depend upon the results obtained in the first two phases. The total cost estimate for the mine rehabilitation and subsequent exploration work is $7,120,000.

CERTIFICATE OF QUALIFICATION

I, ABDELKADER KHOBZI, OF VAL D'OR, IN THE PROVINCE OF QUEBEC, CANADA, DO HEREBY CERTIFY THAT:

I reside at 212 Duchesne, Val d'Or, Quebec.

I am a geological engineer. I am a graduate of the Mining Institute, Leningrad, USSR, with a M. Sc. degree in Geological Engineering (1975), a certificate in Business Administration (1984) and completing a M. Sc. degree in Project Management at University of Quebec (1985). I am a member of the Order of Engineers of the Province of Quebec, of the Project Management Institute (Connecticut, USA), and of the Quebec Prospectors Association and Prospectors and Developers Association of Canada. I have been continuously engaged in my profession for the last 11 years.

This report is based on the author's experience in exploration, on a comprehensive study of all work records and on geological maps and reports published for the area of interest by the Quebec Department of Energy and Natural Resources and by the Geological Survey of Canada. I have visited the property of Abitibi Resources Ltd. I have disclosed in this report all relevant material which, to the best of my knowledge, might have a bearing on the viability of the project and recommendations.

I have not, directly or indirectly, received or expect to receive any interest, direct or indirect, in the property of Abitibi Resources Ltd. or beneficially own, directly or indirectly, any securities of that company. I am not an insider of a company having an interest in the subject property nor in any other property in the immediate area

Abdelkader Khobzi, Eng., M.Sc.

CERTIFICATE OF QUALIFICATION

I, ALAIN JEAN BEAUREGARD, OF VAL D'OR, IN THE PROVINCE OF QUEBEC, CANADA, DO HEREBY CERTIFY THAT:

I reside at 107 Lasalle, Val d'Or, Quebec.

I am a qualified geologist, having received my academic training at Concordia University, in Montreal, Quebec.

I have been continuously engaged in my profession for the last 8 years. I have examined the assessment work files covering the subject property and the immediate area at the resident geologist office of the Quebec Ministry of Energy and Resources in Val d'Or.

This report is based on the author's experience in exploration, on a comprehensive study of all the work records and on geological maps and reports published for the area of interest by the Quebec Department of Energy and Natural Resources an by the Geological Survey of Canada.

I have disclosed in this report all relevant material which, to the best of my knowledge, might have a bearing on the viability of the project and the recommendations.

I have not, directly or indirectly, received or expect to receive any interest, direct or indirect, in the property of Abitibi Resources Ltd. or beneficially own, directly or indirectly, any securities of that company. I am not an insider of a company having an interest in the subject property nor in any other property in the immediate area.

Alain J. Beauregard, géol., B.Sc.

Alain J. Beauregard, Geol. B.Sc.

CERTIFICATE OF QUALIFICATION

I, DIANA L. (RUDGE) SULLIVAN, OF VAL D'OR IN THE PROVINCE OF QUEBEC, CANADA, DO CERTIFY THAT:

I am a resident of Val d'Or at 293 rue Juteau, R.R. No. 1.

I am a geologist having graduated with a Bachelor of Science degree, major in Geology from McGill University in Montreal, Quebec in 1977.

I have worked in northwestern Quebec intermittently for the pas eight years. I have examined the assessment work file available for the Louvicourt property and the immediate area at the resident geologists'office of the Quebec Ministry of Energy and Natural Resources in Val d'Or.

This report is based on the authors' experience in exploration, on a comprehensive study of all the work records and on the geological maps and reports published for the area of interest by the Quebec Department of Energy and Natural Resources and by the Geological Survey of Canada. I have visited the property of Mid-Canada Gold & Copper Mines Ltd and supervised the exploration program of 1985.

I have disclosed in this report, all relevant material which, to the best of my knowledge might have a bearing on the viability of the project and the recommendations.

I have not directly or indirectly received nor expect to receive any interest, direct or indirect in the property of Mid-Canada Gold and Copper Mines Ltd or Abitibi Resources Ltd or any affiliate or beneficially own, directly or indirectly any securities of that companies. I am not an insider of a company having an interest in the Louvicourt property nor in any other property in the immediate area.

Diana L. Sullivan, B.Sc.

Diana L. Sullivan, B.Sc.

REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.,

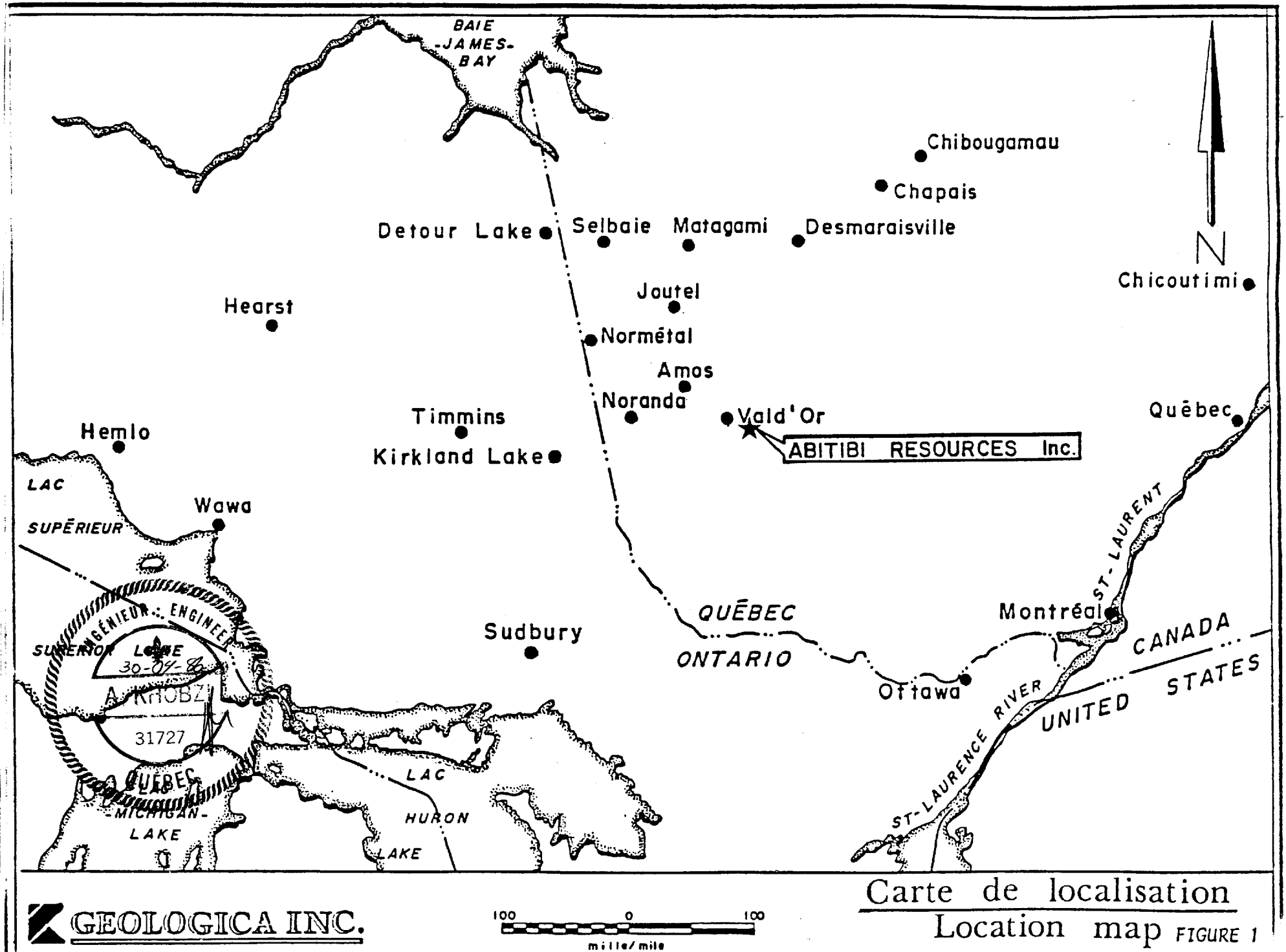
INTRODUCTION:

At the request of Mr. John Kentish, president of Abitibi Resources Ltd, Geologica Inc. was given a mandate to re-evaluate the economic potential of the Louvicourt property and to recommend an appropriate exploration program.

During 1985, Geologica Inc. outlined and supervised this program. It consisted of linecutting (58.9 miles), geophysics (25 mi of IP surveying) and 29,008 feet of drilling.

The purpose of this report is to discuss the economic potential of the property, present the revised ore reserve calculation, outline the work completed in 1985 and recommend a further exploration program.

This report is based on the author's exploration experience in this area and a comprehensive study of all the government publications and work records available from the Val d'Or office of the Quebec Ministry of Energy and Natural Resources. Other sources of information were the reports and



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Carte de localisation

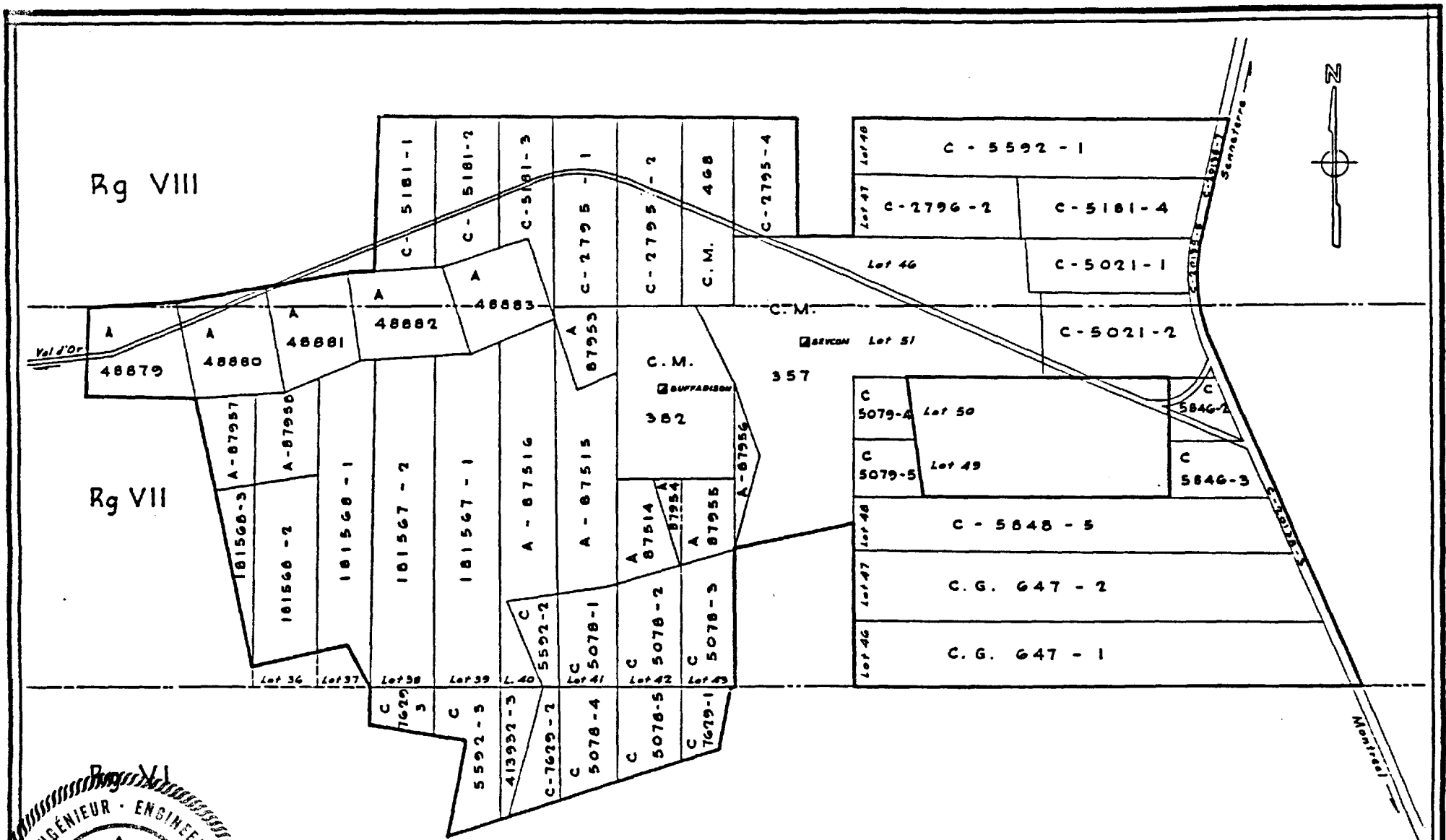
Location map FIGURE 1

geological maps available at the Abitibi Resources office in Val d'Or plus direct supervision of the exploration work.

LOCATION, DESCRIPTION and ACCESS:

The property is comprised of a group of 51 contiguous mining claims and 3 mining concessions which cover an area of 2415 acres, in Louvicourt township, northwestern Quebec. A complete listing of these claims can be found in TABLE I of this report. The property is located in the Val d'Or - Louvicourt gold mining district (Figures 1 and 2). It is situated 27 kilometres east of Val d'Or, at the junction of provincial highways 117 and 113. Access to the property is provided by highway No.117 which crosses the northern part of the claim group. Other secondary, all-weather roads give good access to the property.

The area lies approximately 1050 feet above sea-level and is generally flat. Swampy, low ground is common and overburden may be locally thick. A few geomorphological features are observed, notably two esker ridges,



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Carte de claim
Claim map

FIGURE 2

local kame mounds and small uplands in the areas of outcrop. These protrude through the glacial outwash and lacustrine deposits of the Barlow-Ojibway glacial lake which blanket the area. Small paludified kettle lakes dot the eskers.

Louvicourt lake and contiguous Trivio lake and Sleepy lake are wide parts of the Louvicourt river which flows across the southeast part of the township. The Marrias, Louvicourt and Tiblemont rivers drain the area northward to James bay via the Bell and Nottaway rivers. The waters of the Colombière river reach James bay via the Harricana river.

Approximately 60% of the land has been cut over for timber or burned, leaving a scrubby intergrowth and small stands of stunted black spruce, poplars, birch and a few tamarack. Large areas mantled by glacio-fluvial sands and gravels are overgrown with jack pine. Several marketable spruce stands occur east of Bayeul lake, along Marrias river in the southwest corner of the area, and in the southeast quarter of the township.

High voltage electrical transmission lines near highway No.117 provide an

availability of hydroelectric power. Suppliers, contractors and qualified manpower are readily available in the area.

PREVIOUS WORK:

The Louvicourt property of Mid-Canada Gold and Copper Mines Ltd in a joint venture with Abitibi Resources Ltd. consists mainly of the former Bevcon and Buffadison mines plus additionnal surrounding claims. The acquisition of this large block of ground began in 1962 when the Dumont Nickel Corporation, after having obtained interesting results in its drilling campaign on the Abitibi Copper property, acquired 320 acres of ground which make up the southwest corner of the present holdings. Continuous prospecting and exploration led to the acquisition of additional ground in order to cover, as much as possible the area known to be underlain by a moderately sized batholith, probably a satellite of the Bourlamaque batholith. Later on, Trans Canada Copper Mines Company was formed in order to amalgamate these different pieces of ground and, in 1969, the old mining properties Buffadison and Bevcon were acquired and added to the original group. Eventually the property was transferred to Mid-Canada

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Gold and Copper Ltd which is the present owner.

In October, 1931, S.R. Jowsey staked this ground for the C.A. Wyeth interest. The property was optioned in 1932 by Dome Mines Limited who completed about 3,000 feet of drilling before dropping the option, although sampling across the discovery trench reportedly yielded 0,87 oz Au/ton over 28 feet. In 1934, this section of the ground was acquired by Louvre Gold Mines Limited, which optioned it in 1936 to Premier Gold Mining Company Limited, and in 1939 to Teck Hughes Exploration Company Limited. During the period 1936-39, drilling on the Louvre property totalled 20,829 feet.

The property was acquired in 1940 by Madison Gold Mines Limited which completed at least 904 feet of drilling.

In 1945, the newly-formed Buffadison Gold Mines Limited (renamed in 1962 United Buffadison Mines Limited) acquired the Madison property consisting of 14 claims (687 acres). Following 25,286 feet of drilling on the extension of Bevcourt orebody to the east, a shaft was sunk 983 feet

in 1946-1947 with six levels at 150 feet intervals between depths of 210 and 960 feet. When operations were suspended in June 1948, a total of 8,573 feet of lateral advance had been completed and reserves of 200,000 tons averaging 0,457 oz Au/ton were indicated down to the sixth level in the North and South veins. Nine drill holes were completed in 1950 and in the same year, 8,223 tons of development ore was shipped for custom treatment to the Perron mill.

In 1959 Buffadison transferred its claims and workings to Bevcon Mines Limited. Subsequently Bevcon, from its own workings, mined and milled from the Buffadison section, 133,948 tons of ore during the 1960-64 period and probably an additional tonnage in 1965 when the mine closed. The Bevcon workings are connected with Buffadison's on the latter's 5th level.

The Bevcourt section (36 claims), of which the important part was once held but not drill tested by Louvre, was acquired in 1944 by the newly incorporated Bevcourt Gold Mines Limited (renamed Bevcon Mines Limited

in 1955). Drilling commencing late in 1944, to the east of the Buffadison boundary, disclosed encouraging results. Between 1946 and 1965, a vertical shaft (situated 2,100 feet NE of the Buffadison shaft) was sunk and 17 levels were developed at 200, 350, 500, 600, 700, 800, 900, 1000, 1150, 1300, 1450, 1600, 1725, 1850, 1975, 2100 and 2225 feet. Custom shipments of ore to the Perron mill commenced in 1947 and continued until July 1951 when this mill was purchased, brought to the Bevcon property and reassembled there.

In 1958, Bevcon acquired a portion of the property of Lencourt Mines Limited (renamed Fano Mining and Exploration Inc. in 1955 and Fanex Resources Limited in 1971) and the remainder of the property in 1963 for cash and a royalty on the ore to be mined. Prior work on the Lencourt property which adjoins the Bevcon to the north and west included some drilling. A total of 89,667 tons of Lencourt ore was treated at the Bevcon mill during the period 1958-64, and probably an additional tonnage in 1965, the last year of Bevcon's operation.

The mining and milling operations were suspended in September 1965. At

the time of the shutdown, 101,500 tons of ore containing 0,13 oz Au/ton were left in place above the 2,225 foot level and an additional 734,679 tons grading 0,114 oz Au/ton had been indicated by drilling to a depth of 3,200 feet.

Bevcon Mines Limited merged with Malartic Gold Fields Limited in October 1965, forming Malartic Gold Fields (Quebec) Limited. In 1970, the Bevcon-Buffadison-Lencourt property (including Mining Concessions 357-Bevcourt shaft, 382-Buffadison shaft and 468-Lencourt) was sold for $25,000 to the Dumont Nickel Corporation which vested it the same year into a newly-formed subsidiary, Trans Canada Copper Mines Limited. The property was subsequently transferred to Mid-Canada Gold and Copper Mines Limited.

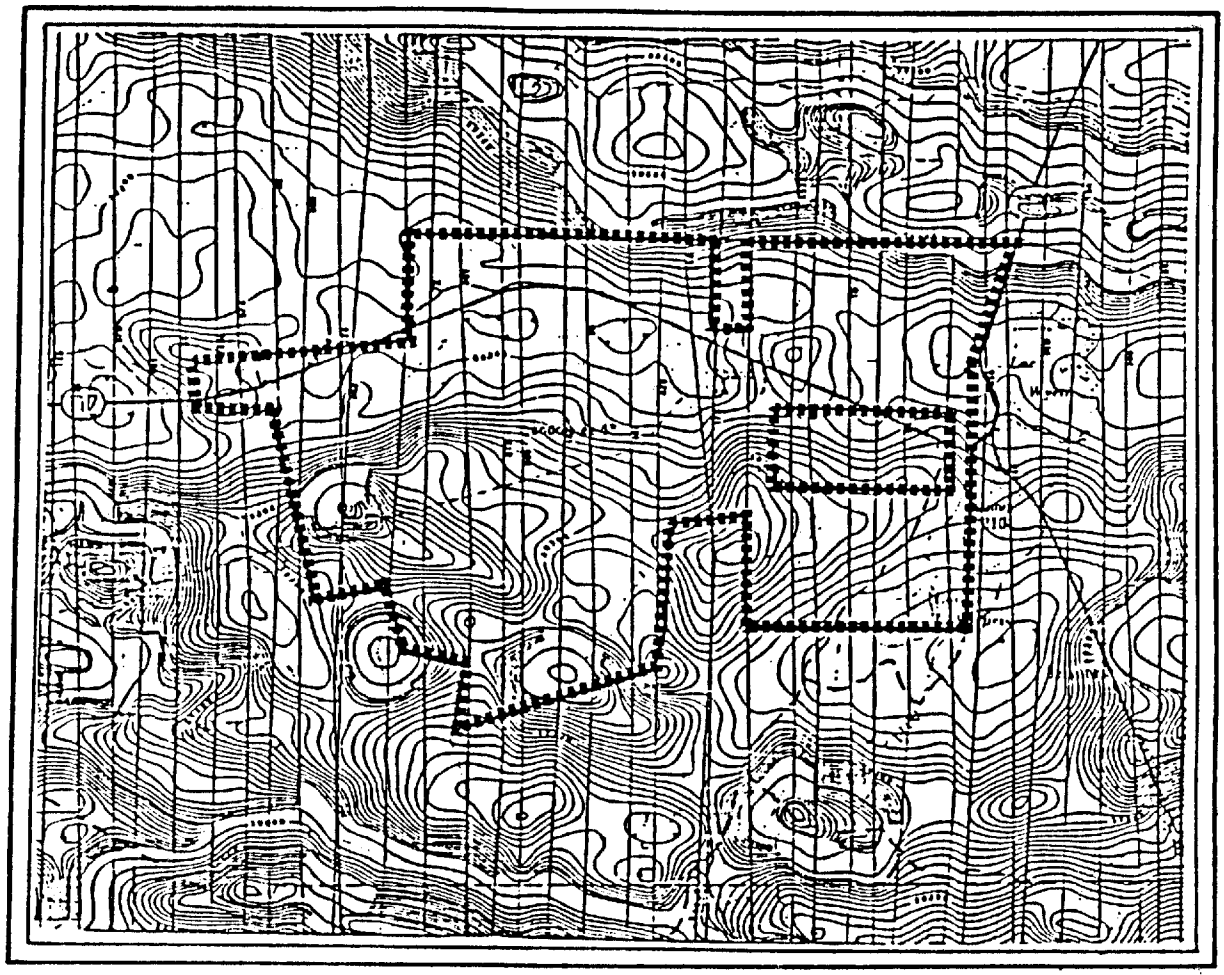
The Abitibi Resources ground also contains the former R. Joseph claim group (Range VII, lots 35 to 39 included), which was held under option in 1968 by the Dumont Nickel Corporation and then by Trans Canada Copper Mines Ltd. A modest tonnage totalling 106,675 tons averaging 1,56% copper was drill indicated in the north central area of the property. The

mineralized zone is located in and adjacent to a chloritic shear zone between the contact of the Bevcon batholith and volcanic rocks.

During the summer of 1980, a program of linecutting and geophysical surveying was executed over the property which was owned by Mid-Canada Gold and Copper Mines but under option to Abitibi Resources Inc.

This involved 51 linear miles (82 km) of line cutting along which were run a magnetometer survey and an electromagnetic survey with readings at 50 foot intervals. The V.L.F. survey outlined about 30 different anomalies. A drilling program was recommemded and carried out during the fall of 1983 and winter 1984. Forty three holes were drilled for a total of 33,390 feet. Numerous gold bearing quartz veins were intersected. The result of these programs are well described in the 1983 and 1985 SOCOMINES reports, by Jean Lavallée, Eng..

In a more general sense, this property is discussed by J.H. Sharpe in report no. 135 (1968) which deals with Louvicourt township in its entirety.



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Carte EM - Input Map

(AEROMAG)

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Echelle / Scale
1 : 50 000
1000 0 1000 mètre

FIGURE 3

REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.

In 1969, the INPUT survey was released by the QDNR for the region of Val d'Or as flown by Questor Surveys Ltd. In 1974, this information was updated at a scale of 1:20,000 again by Questor Surveys (DP 764) (Figure 3).

Most recently, the MERN of Quebec published a study of the Bevcon Mine by Pierre Sauvé (1985, MB-85-04). This report discusses in some detail the geology of the Bevcon deposit.

REGIONAL GEOLOGY:

The rocks underlying the Bourlamaque-Louvicourt region are of Archean or lower Precambrian age and belong to the Superior Geological Province. They belong to the Abitibi Greenstone Belt which extends throughout Eastern Ontario and Northwestern Quebec. Most of the rocks consist of intermediate to basic flows interbedded with tuff layers and intruded by various types of intrusive rocks mostly granodiorite, diorite and

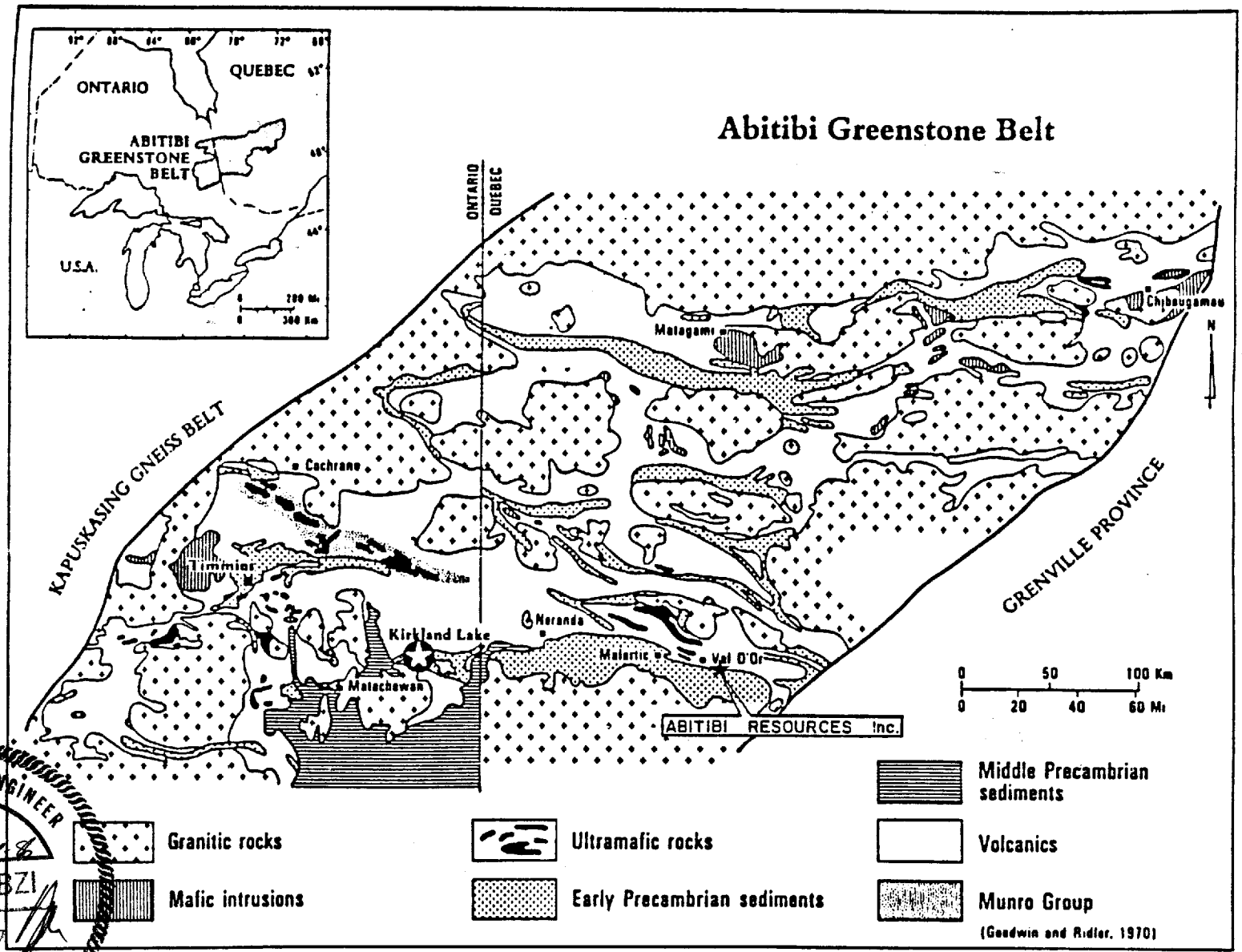

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FIGURE 4

quartz-gabbro (Figure 4).

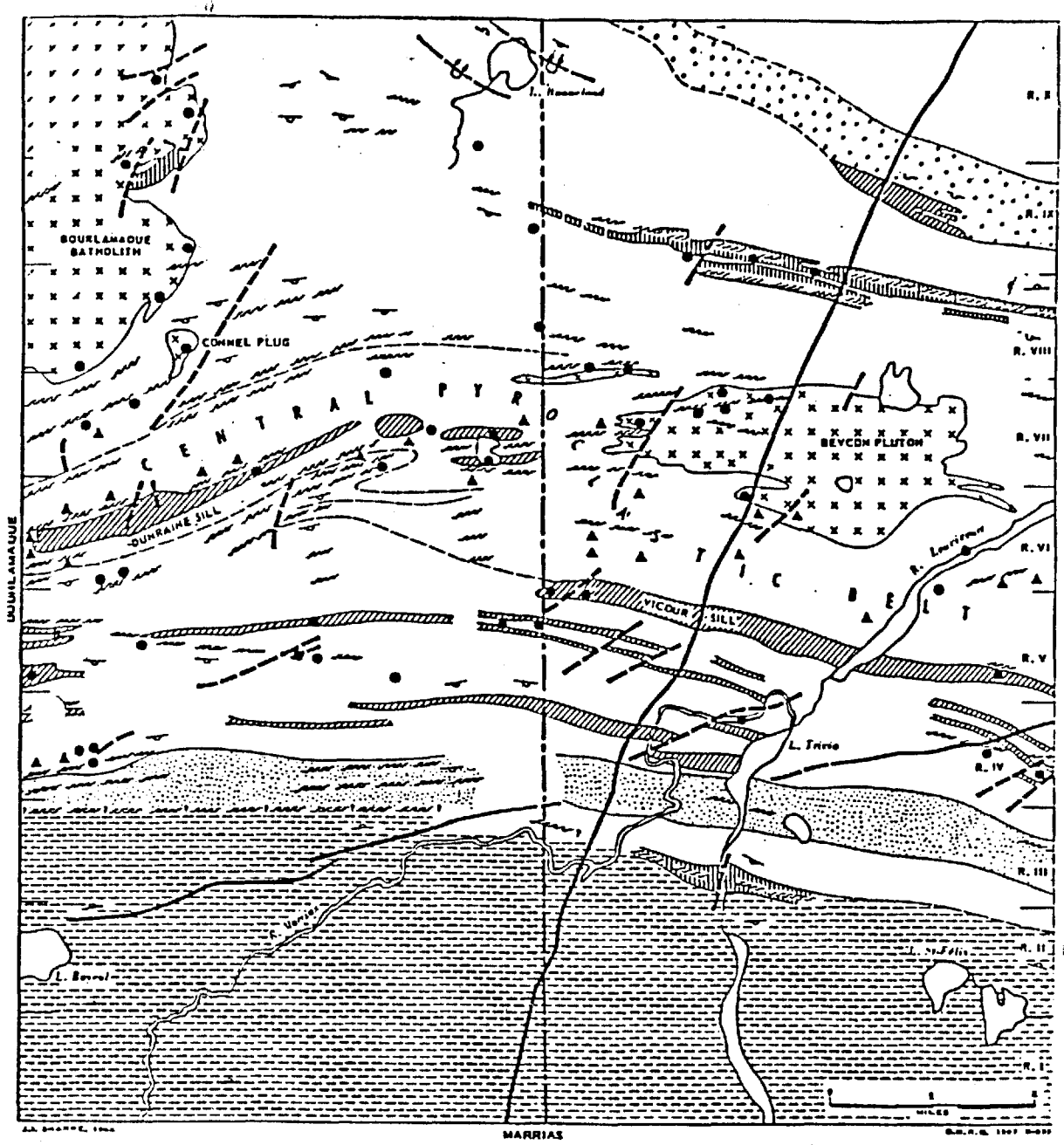
The major geological features which highlight the area are the Cadillac fault and the Bourlamaque batholith. The Cadillac fault extends for more than 100 miles in an east-west direction from the Kirkland Lake district in Ontario to the Vauquelin-Denain area about 15 miles east of Louvicourt township. The Bourlamaque batholith starts in Dubuisson township, covers the entire northern half of Bourlamaque township and extends to the northwestern corner of Louvicourt township. Most of the producing mines, both current and former are associated with the west, south and east fringes of the batholith, a few miles north of the Cadillac fault, or associated with satellite intrusive plugs near the main batholith.

GEOLOGY OF THE PROPERTY:

The predominant geological feature of the property is a granodiorite stock, ellipsoidal in shape, which has an east-west length of approximately 4

miles and a maximum width of 1.5 miles (figure 5). The property encompasses almost the entire stock except for its eastern extremity and part of the southern and northern contacts. The granodiorite pluton is surrounded by older intermediate to basic volcanic rocks.

The north contact of the Bevcon pluton dips an average of 70[northward near the Bevcon shaft but steepens at depth (Figure 5). To the west, the contact maintains a general east-west strike, concordant to the adjacent volcanic rocks. Narrow feldspar porphyry dykes extend along the margin of the pluton. The most continuous of these is 30 feet wide, dips an average of 85[north, and extends through the zone of auriferous veins. The porphyries are intruded by dark green mafic dykes and swarms of these tend to reach maximum development at depth within the auriferous zone. Both the porphyry and mafic dykes are veined and therefore pre-ore in age. The only large post-ore intrusion is a late Precambrian diabase dyke which strikes northeast across an area east of the Bevcon shaft.



LATE PRECAMBRIAN
- Diabase dike

EARLY PRECAMBRIAN
- Granodiorite and allied rocks
- Diorite gabbro
- Serpentinized ultrabasic rocks

PONTIAC GROUP
- Metasedimentary schists

TRIVIO GROUP
- Sedimentary rocks

GARDEN ISLAND LAKE GROUP
- Sedimentary rocks

SYMBOLS
- Copper, zinc
- Gold
- Top determination
- Longitudinal shear zone
- Assumed transverse fault
- Fold axis: (a) anticline, (b) syncline

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Carte métallogénique
Metallogenic map

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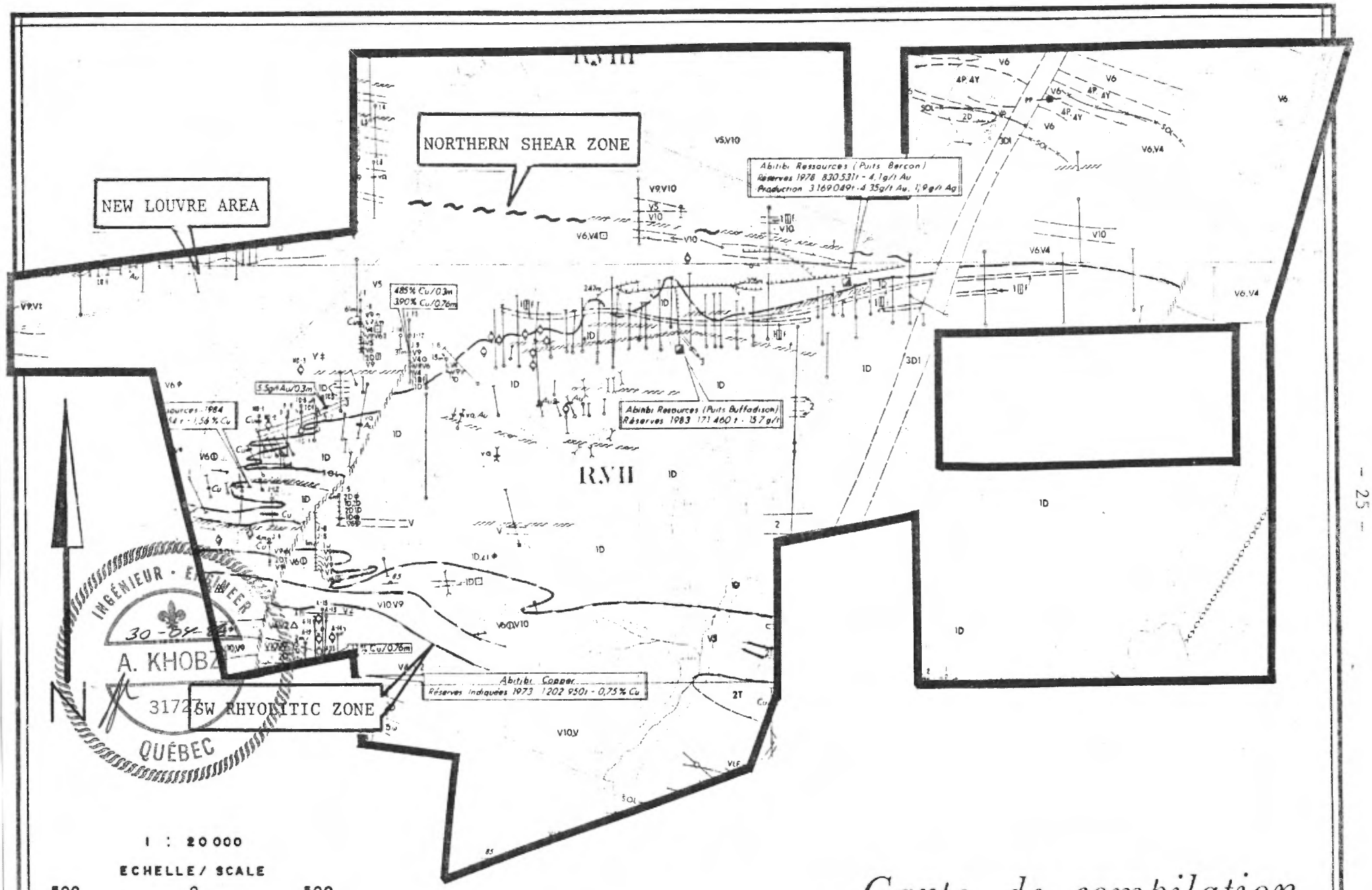
FIGURE 5

The granodiorite is a medium to coarse-grained rock, characterized by numerous grains of "opalescent" quartz. The rock is markedly sheared, chloritized, silicified and locally carbonatized within the mineralized zones.

The volcanic rocks are intermediate to basic in composition and consist of a series of intercalated massive and tuffaceous units. These rocks strike generally east-west and have a sub-vertical dip. They exhibit a schistosity which is consistent with the regional trend and are often chloritized and silicified in places. Isolated patches may be mineralized with pyrite but few are auriferous.

In the northwestern portion of the property, the "New Louvre granodiorite" contains auriferous quartz veins. Recent drilling indicates that this is more realistically an intermediate feldspar porphyry which dips at about 70[to the north. There appear to be several of these porphyries in this region of the property as indicated by diamond drilling. It should be noted that correlation is hampered by the fact that there is no outcrop here and an average of 200 feet of overburden.



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Source : Compilation map of M.E.R.Q. 32C/3 -0201

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Carte de compilation
Compilation map

FIGURE 6

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A band of rhyolitic rocks occurs in the southwestern part of the property. Some interesting gold values were found in drilling in this area in silicified, pyritized zones. The geology has not been well defined here and warrants further work.

The extreme northeastern portion of the property is believed to be underlain by ultramafic rocks according to compilation studies. The heavy overburden has hampered exploration activity here.

A structural feature referred to as the "northern shear zone" has been postulated to be a significant control for the emplacement of auriferous quartz veins in the volcanic tuffaceous units. At the Bevcon Mine, at depth, a quartz vein, rich in gold was discovered lying at a shallow angle to the shear zone. This hypothesis was the basis of a significant amount of diamond drilling both this year and in the past.

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MINERALIZATION:

Pyritic tourmaline-quartz veins containing gold and silver are widespread in the Louvicourt area and occur in various host rocks and structural settings. The veins occur in all major varieties of intrusions which indicate placement late in geological events (Figure 6).

In general, the auriferous quartz veins are characterized by the presence of pyrite and tourmaline and sporadic chalcopyrite, pyrrhotite and carbonate minerals. Much of the quartz appears as a shattered, lustrous variety with a translucent black appearance. The best auriferous sections usually are marked by concentrations of pyrite. Friable aggregates of coarse, crystalline pyrite are considered to be particularly good indicators. Some high-grade gold veins however are barren-looking milky quartz with only the occasional bleb of pyrite. Variable amounts of silver are associated with the gold.

Less common vein minerals are sphalerite, scheelite, selenite and several gold tellurides and tellurobismuthinite (Bi_2Te_3) at the Louvicourt

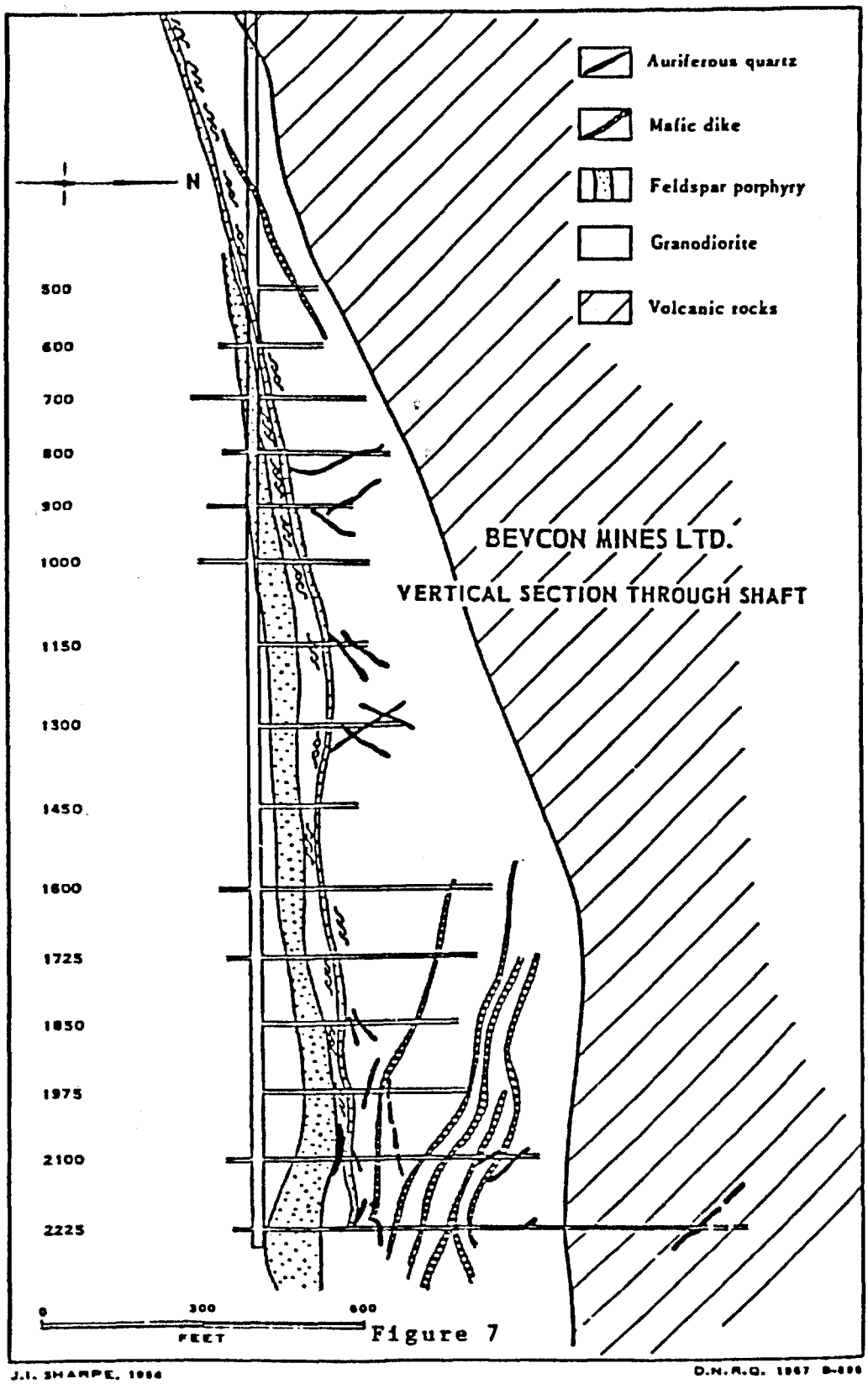

Figure 7

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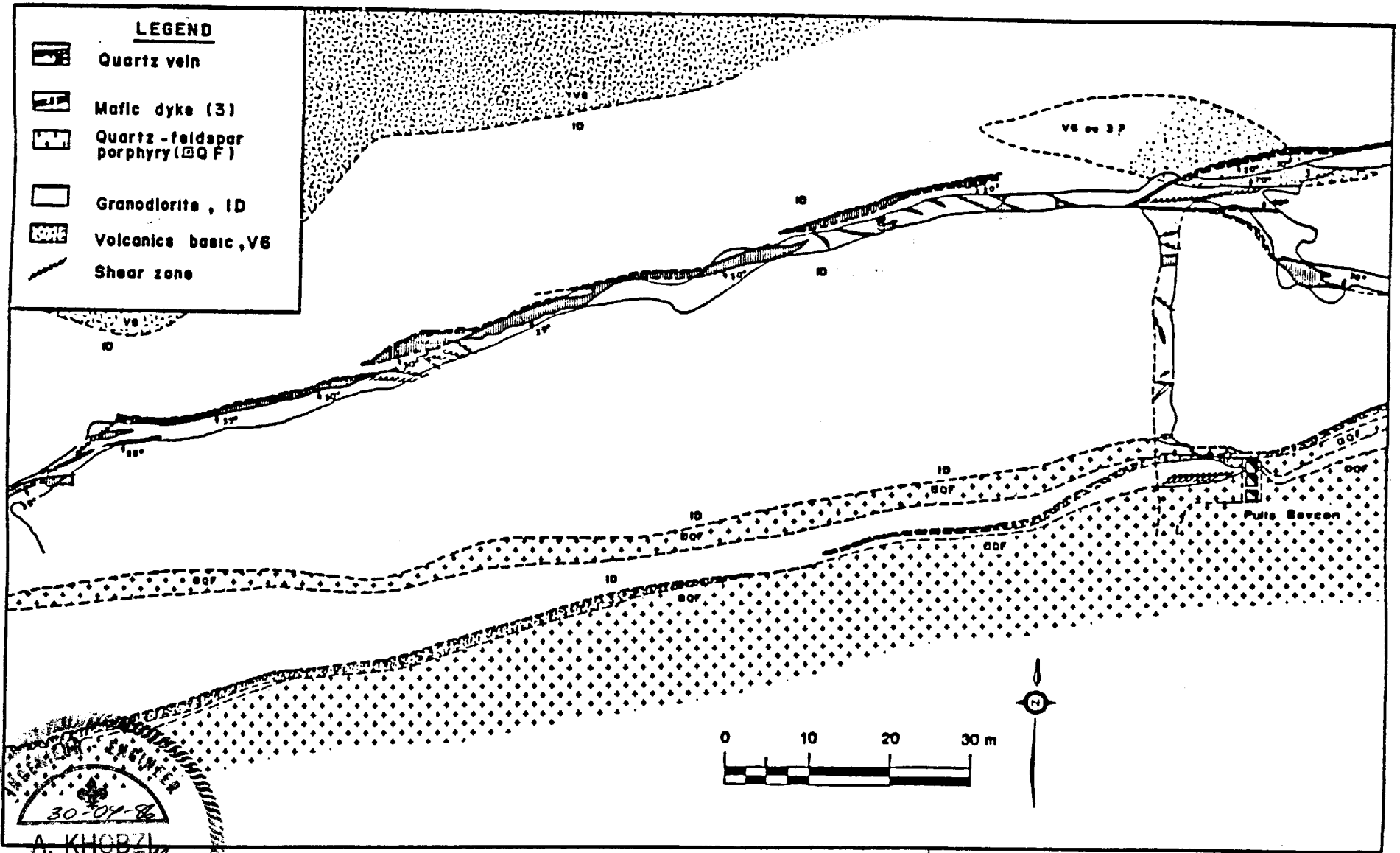
Goldfield and Bevcon deposits. Substantial amounts of arsenopyrite occur at the old Vicour deposit (Sigma II now).

Although gold mineralization is widespread, it appears that only rarely do combinations of factors result in the concentration of exploitable quantities of vein material.

One general relation, common to most of the larger gold deposits, is the deposition of the veins in small, discontinuous transverse structures near longitudinal shear zones. The reason for the development of the entrapping structure can usually be attributed to some peculiarity of the detailed geology - generally the interplay between rocks of constrasting competency. The larger deposits in the area can be grouped on the basis of the salient features of their geologic setting as follows:

1)Veins within the margins of granodiorite plutons:

Vein systems are found within the south and east flanks of the Bourlamaque batholith, along the southeast margin of the Connell plug in



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Bevcon Mine , 600 level
Geological plan showing the displacement of a major vein

Source : P. Sauvé 1985
Géologie de la mine Bevcon M.E.R.Q.

FIGURE 8

western range VIII, and along the northern margin of the Bevcon pluton. Individual productive veins within all these zones are moderately-dipping lenticular bodies which strike between northeast and east. Extensive faults or shear zones transect the host rocks but usually the veins appear to be controlled directly by minor subsidiary fractures. The vein sets tend to pinch against small diorite or porphyry dykes, or to be delimited by some heterogeneity of the intrusion or its contact with the volcanic rocks.

2)Veins in diorite sills:

Auriferous veins are concentrated in many dioritic sills and those in the swarm which extends along range V are particularly noteworthy. At the western end of the range, on the property of Louvicourt Goldfield, the veins lie in sheared and pyritized diorite which perhaps was dilated during mineralization within a framework of anastomozing porphyry dykes. More veins are found 5,000 feet to the east, along the same zone of shearing, within diorite and porphyry. At the old Vicour deposit, in the north-central part of range V, gold veins are concentrated in silicified quartz diorite or granodiorite along the south margin of an unusually large

gabbro-diorite sill. The belt of serpentine schists located in the east part of ranges VIII and IX is intruded by small masses of diorite. Gold veins in this sector tend to be concentrated within the north (hanging-wall) edges of these diorites as a result of the preferential fracturing of competent diorites, encased in soft serpentine.

3)Veins in schist and fault zones in volcanic rocks:

Numerous gold veins have been found in the volcanic rocks, usually within or near small or large schist zones. In general, the evaluation of these occurences by diamond drilling has been difficult, presumably because individual auriferous zones tend to be irregular or discontinuous. However, some extensive vein zones do occur in the broad schist zones along the south flank of the Bourlamaque batholith.

A few auriferous veins may be related to transverse faults. A good example is the Lapaska deposit on the property of Sigma Mines Ltd., in range V. Here the best veins occur within step-faults and are confined to the interval where the faults traverse a layer of cohesive lava, between

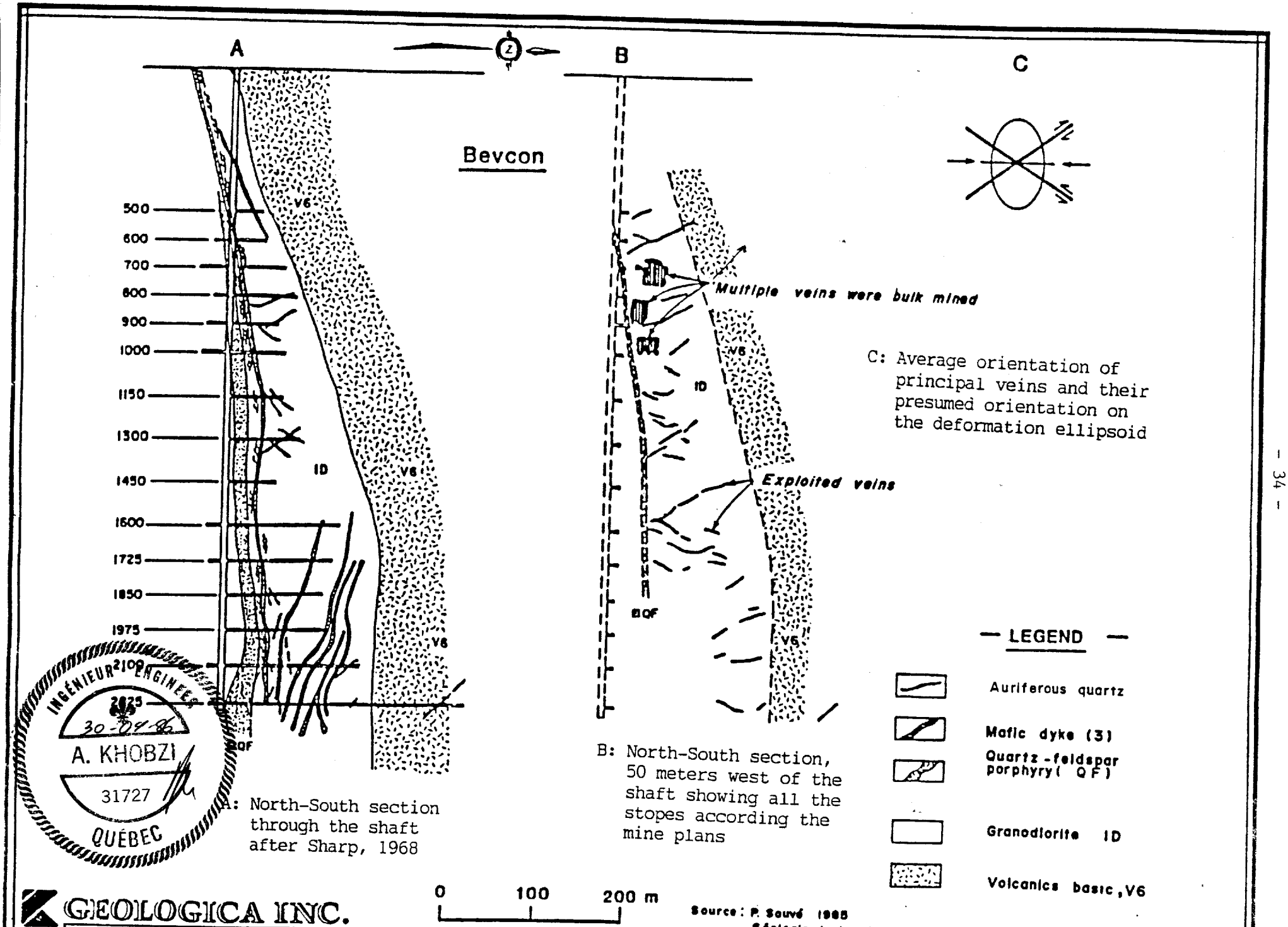
zones of flow breccia. The host rock is the spherulitic lava unit which extends across the township. Several other showings have been found within this favorable host rock.

Mineralized transverse shear zones also transect the Akasaba deposit at the west end of range IV. Here however, the main orebody was coextensive with a tabular, concordant zone of sulfide-rich metamorphic rocks.

The shear zones at the Akasaba deposit may be subsidiary structures of a regional fault zone which is considered to extend eastward along the southern part of range IV and then to swing southward, across the south tip of Trivio lake. Similar structural complications might be found under the heavy overburden in the central part of the range.

On the property studied, we delineate four areas of interest in concordance with these different types of gold mineralization.

- Buffadison shaft area (veins within the margins of the granodiorite).
- The northwest and northeast margin of the Bevcon pluton (veins within granodiorite <or in volcanics>).



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A. KHOBZI
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QUÉBEC

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FIGURE 9

- The southwest area, in volcanics (veins in schist and fault zones in volcanic rocks).

On the Mid-Canada property, sets of auriferous veins are concentrated in the north margin of the granodiorite pluton, within 500 feet of its edge, and along an east-west distance of 4,300 feet. The veins consists mainly of quartz, carbonate, tourmaline, chlorite and pyrite with sporadic chalcopyrite, scheelite, selenite, tellurobismuthite and other tellurides. The pyritic sections tend to be enriched in gold. Individual veins are characteristically narrow and lenticular and have lengths of some 150 feet.

In the deeper levels of the Bevcon mine, zones of bleached, tourmalinized granodiorite may contain mineable quantities of gold. The veins are confined to the granodiorite except for an unusually rich vein discovered in the hanging-wall volcanic rocks at the 2,225 level and another at the 600 foot level. The 2,225 foot level vein strikes N.80º E., dips 45º south, and has an average thickness of 0.5 feet.

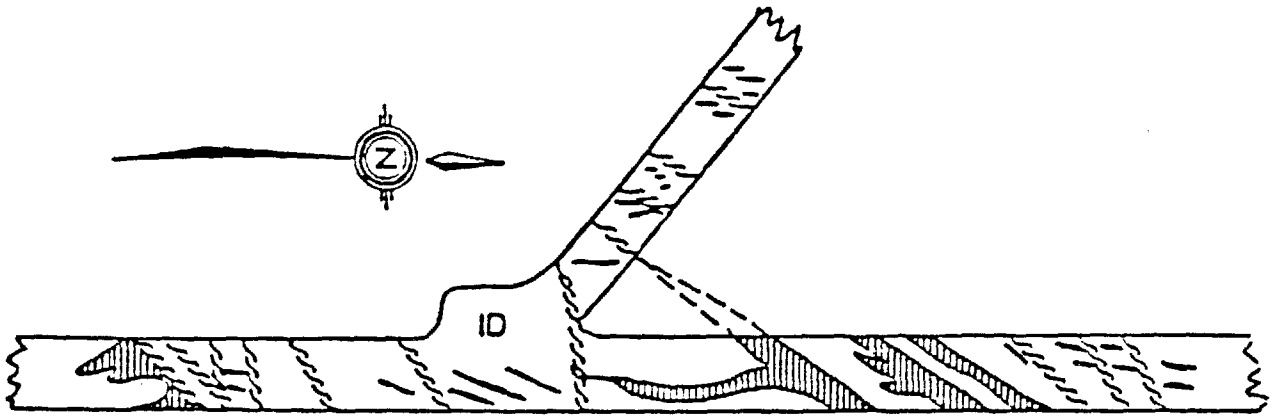
At the Bevcon mine, four principal vein structures can be determined. (Figures 7,8,9 and 10).

1) South dipping veins (20º - 40º S):

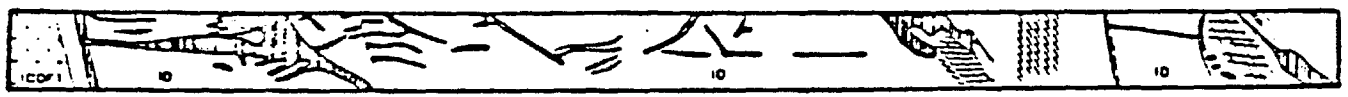
These are the predominant type and are located between steeply dipping shear zones. They can reach up to 800 feet long in an east-west direction, 200 feet along the dip length and are generally 0.5 to 1.0 foot wide. These veins are not continuous but rather, are composed of several lenses which are often displaced several feet.

2)North dipping veins (10º - 40º N):

These veins are more irregular than those which dip south. They are also generally shorter but may reach up to 300 feet horizontally and 300 feet down dip. Exploration was carried out over a 6 to 18 foot width on these veins. They may form a step-ladder structure with north dipping veins as well.



Cross-cut, 30m West of shaft, 700 level



Cross-cut 701

0 4 m

— LEGEND —

- Quartz vein
- Quartz-feldspar porphyry (⊡ Q F)
- Granodiorite, ID

Source: P. Sauvé 1985
Géologie de la mine Bevcon M.E.R.Q.

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Bevcon Mine, 700 level
West Walls of 2 cross-cuts showing the complexity of the veins and the presence of horizontal veins

FIGURE 10

REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.

3)Horizontal veins (flats):

These veins are usually spurs and offshoots of both north and south dipping veins. They are usually too narrow and short to be mined alone but are exploitable when in proximity to other veins. Some flats were followed for 15-20 feet at either extremity of the inclined veins.

4)Stringer ore:

This ore is related to steeply dipping shear zones and was successfully exploited in the central part of the mine. These zones were up to 100 feet wide and contributed up to 500,000 tons of ore to the mine production.

The veins in the western part of the property (the Buffadison property) occur both north and south of the extensive porphyry dyke mentioned above. Those to the north generally strike east and dip southward. Those in the "south zone" commonly strike northeast or northwest and dip northward. Some 36 separate veins are distinguished within the north zone and the south zone. The most extensive veining occurs near the 5th (810 ft) level. For example, a south-zone vein, located 480 feet north of the Buffadison shaft, was followed by drifting and was reported to contain 0.9 ounces of

gold per ton over a length of 270 feet and an average width of 1 foot.

Several east-west veins are found here too but there has been little evidence of "stringer ore" as found at the Bevcon.

As at the Bevcon mine, the best indicator of good gold values is the amount of pyrite, particularly where it is coarse grained. Microscopic studies show fine blebs of gold 0.01 mm to 0.03 mm in size. Usually, the gold occurs as inclusions in pyrite, more often in fractures in pyrite or between grains of pyrite. Gold may also be found in fractures in the quartz or carbonate surrounding the pyrite. The gold grains are often adjacent to small blebs of tellurides.

The veins near the Bevcon shaft, which provided most of the ore, are restricted to the selvage of granodiorite between the main prophyry dyke and the north contact of the pluton. At the 500 foot level, this selvage is generally less than 200 feet wide but, as the dyke dips more steeply northward than the granodiorite's contact, the restricting zone widens with depth, becoming approximately 600 feet wide near the 1,600 foot

level.

The genetic interrelations of the various fracture structures are known only in general terms. The long porphyry dyke occupies a steep shear zone which strikes eastward. The dyke forms the foot wall of the zone of veining near the Bevcon shaft, and individual veins pinch where they impinge obliquely on the dyke. The most persistent veins strike parallel to the porphyry dykes but dip obliquely. Either north-dipping veins or south-dipping veins may predominate from place to place. These veins may follow subsidiary shear zones or have adjacent "gash" veins; features which indicate that the confining structures of the main veins follow a conjugate set of shear fractures. The bisectrix of the acute angle between the two shear sets is usually perpendicular to the wall of the porphyry dykes. Veins within these structures tend to pinch abruptly on entering any oblique structure, such as small mafic dyke. Short tension fractures, oriented northeast and northwest (oblique to the "shear veins"), are veined in places and some of the diorite dykes follow a set of these which strike northwest, dip northeast and cut across the veins which strike eastward.

The geological setting has been well described by R. Kempthorne, the

Bevcon mine geologist.

GEOLOGICAL MODEL FOR ORE DEPOSITION:

This conceptual model is based on information obtained from drill data, mine plans and government reports.

The primary geological events may be described as follows (Figure 11):

1) Volcanism and subsequent deposition of the volcanic country rocks.
2) Subvolcanic intrusion of the granodiorite pluton which hosts the Bevcon-Buffadison deposits.
3) Developement of primary stresses which resulted in the east-west structural systems. These are parallel to the stratigraphy and the schistosity and parallel to each other. Three shear zones were developed, one in the volcanics to the north and two in the granodiorite to the south.
4) At the same time, a system of tension fractures was developing. These were ductile, subhorizontal and were generally occuring in the competent rock - the granodiorite. Occasionally, but rarely, some

tension fractures formed at depth in the volcanics. This phenomenon was found in one case at the Bevcon mine.

5) During the mineralization period, quartz veins were emplaced in the subhorizontal systems created by the tension fractures.

6) The feldspar porphyry was injected along a former shear zone.

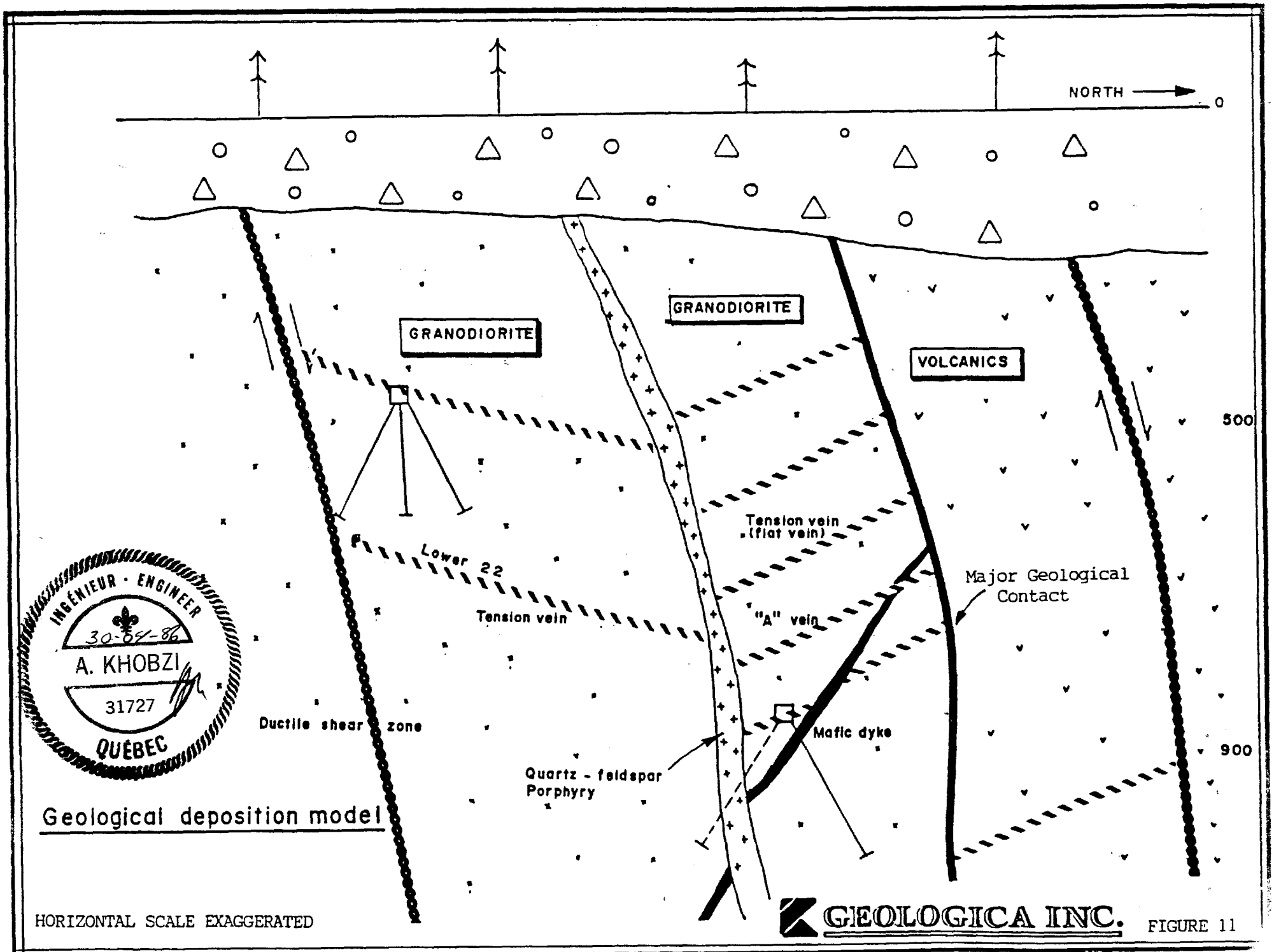
7) Hydrothermal solutions were introduced and deposited probably during various phases. At this time, the pyrite and gold were also introduced probably simultaneously as there is a direct association between the pyrite and gold content.

8) The mafic dykes were emplaced during or after the mineralization event as some veins are displaced by these mafic dykes. Conversely, some mafic dykes contain quartz veins as well. This could simply be due to the remobilization of the vein material and gold at a later date.

Some other points for consideration here which are fundamental to the model and exploration guidelines are:

1) The presence of two parallel shear zones.

2) The continuity of the feldspar porphyry.


NORTH
0
GRANODIORITE
GRANODIORITE
VOLCANICS
500
900
Lower 22
Tension vein
Tension vein
(flat vein)
"A" vein
Major Geological
Contact
Ductile shear zone
Quartz - feldspar
Porphyry
Mafic dyke
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Geological deposition model
HORIZONTAL SCALE EXAGGERATED
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FIGURE 11

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RECENT WORK AND RESULTS:

A detailed geoscientific compilation study has been completed by the authors to reevaluate the property and to recommend an exploration program keeping in mind some important concepts:

-The Buffadison orebody has not been completely mined yet, an ore reserve calculation has been completed.

-The geological setting of the Buffadison orebody appears to be very similar to that of the Bevcon mine. At the Bevcon mine the mineralization is known from surface to 2225 ft level. At the Buffadison mine, we only know the first 1000 ft.

-The richest mining blocks are composed of "stringer ore." At the Bevcon mine some of these blocks have been mined up to 100 ft in width and produced up to 100,000 tons. We have not yet encountered these kinds of ore zones at Buffadison.

REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.

During the fall and winter of 1985, an exploration programme consisting of surveying, line freshening, geophysics and drilling was carried out.

- Linecutting: 58,97 mi
- Geophysics: IP survey 21 mi
- Diamond Drilling: 29,008 feet

The line freshening was carried out in the fall of 1985. Lines were cut every 400 feet using a previously established grid pattern. Pickets were placed at 100 feet intervals along the cut lines.

The induced polarization survey was carried out by Edwin Gaucher & Assoc. A pole-dipole method was used with a electrode spacing of 100 feet for the first separation (n=1). In the eastern part of the property, this survey was run with two separations, n=1 and n=2. Readings were taken every 100 feet on every other line (ie 800 foot spacings). Ten anomalies were outlined of which three were recommended as drill targets. (Refer to report by Edwin Gaucher, April, 1986).

Using data obtained in the 1980 magnetic survey of the property, magnetic

profiles were drawn up by Edwin Gaucher & Assoc. in order to facilitate magnetic interpretations.

A total of 29,008 feet was drilled by Forages J.P. Bérubé Inc. The core was logged by Diana Sullivan, B.Sc. All mineralized sections and quartz veins were split and sent for assaying to the Bourlamaque Assay Laboratory in Val d'Or. All the high assays were cut to 1,00 oz/ton Au to arrive at the weighted averages. The core is stored at the facility belonging to Abitibi Resources Ltd. in Val d'Or.

A detailed listing of the pertinent drilling information is included in Appendix B of this report. The results are plotted on a series of four maps at a scale of 1"=200 feet. The drill sections are drawn at a scale of 1"=50ft. All these maps and sections are included with this report. All the diamond drill logs (MA-85-1 to MA-85-30) are included in Appendix C of this report.

The results of the drilling program are discussed by area.

REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.

Buffadison Shaft Area

Nineteen holes totalling 17,193 feet were drilled in the immediate vicinity of this former Buffadism Mine shaft area. The purpose of this drilling was to increase ore reserves, above the 1000 feet level, and to discover new mineralized quartz veins. Three holes had to be abandoned due to rough overburden conditions. Holes * MA-85-1 to MA-85-15 were surveyed by J.P. Deslauriers, A.G. and their locations can therefore be considered to be precise.

The drilling pattern was designed to intersect the maximum number of quartz veins in the granodiorite between the volcanics and the quartz-feldspar porphyry. The holes were therefore drilled at steep angles (80º - 85º) towards the north (true north) and south. The average depth of the holes was 1000 feet. Tropari tests were taken in eight holes and they showed a slight azimuth variation (10º or less). Dip tests were taken at 200 foot intervals.

Holes * MA-85-1 to MA-85-15 were drilled at 100 to 200 foot centers.

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Many quartz veins were intersected in the granodiorite some of which returned good assay values. Details of these values are found in appendix A of this report.

Some of the best values were found in hole #4 where a mineralized quartz vein ran 0,33 oz/ton Au (cut) over 3,0 feet (397,0 - 400,0). In the same hole, another quartz vein mineralized with chunks of pyrite ran 0,53 oz/ton Au (cut) over 5,6 feet (532,0 - 537,6). In hote #5B, small, mineralized quartz veins and silicified granodiorite ran 0,35 oz/ton Au over 5,0 feet (481,0 - 486,0). In hole #12, quartz-tourmaline veins mineralized with pyrite chunks returned 0,32 oz/ton (cut) over 4,0 feet (115,0 - 119,0). Quartz veins in hole #14 returned 0,25 oz/ton Au over 4,0 feet (623,0 - 626,0). Hole #15 was drilled to 2243 feet near the Bevcon boundary with the hope of intersecting mineralized veins at depth. The results were disappointing as no major mineralized veins were intersected below the 1000 feet level.

Holes #MA-85-18 and 19 were drilled further to the south to verify the lateral extension of veins intersected in the 1983 drilling. Good results

miles and a maximum width of 1.5 miles (figure 5). The property encompasses almost the entire stock except for its eastern extremity and part of the southern and northern contacts. The granodiorite pluton is surrounded by older intermediate to basic volcanic rocks.

The north contact of the Bevcon pluton dips an average of 70º northward near the Bevcon shaft but steepens at depth (Figure 5). To the west, the contact maintains a general east-west strike, concordant to the adjacent volcanic rocks. Narrow feldspar porphyry dykes extend along the margin of the pluton. The most continuous of these is 30 feet wide, dips an average of 85º north, and extends through the zone of auriferous veins. The porphyries are intruded by dark green mafic dykes and swarms of these tend to reach maximum development at depth within the auriferous zone. Both the porphyry and mafic dykes are veined and therefore pre-ore in age. The only large post-ore intrusion is a late Precambrian diabase dyke which strikes northeast across an area east of the Bevcon shaft.

were obtained and some heavily tourmalinized, pyritized and silicified granodiorite sections were intersected. In hole #18, 0,54 oz/ton Au was returned over 1,1 feet (252,8 - 253,9).

Holes #MA-85-20 and 21 were drilled 50 feet east and west of hole #4 where good results had been obtained. These holes confirmed the lateral extension of the economic quartz veins and gave values of up to 3,39 oz/ton Au/1,5' (520,0 - 521,5) in hole #20 and 0,31 oz/ton/1,0' (406,5 - 407,5) in hole #21.

These encouraging results permitted a more detailed ore reserve calculation on the former Buffadison shaft area above the 1000 foot level. The results are included in this report.

New Louvre Area

Holes #MA-85-16 and 17 were drilled in this area which is located in the northwestern corner of the property. The purpose of this drilling was to

determine whether auriferous quartz veins could be intersected in a quartz-feldspar porphyry along its eastern extension. In the 1940's, drilling in this area revealed the presence of auriferous quartz veins in both the porphyry and the tuffs to the south. Since this formation dips to the north and consequently off the Abitibi Resources property, the drilling was planned to test the Eastern extension of the porphyry. The drilling was successful in intersecting the porphyry but no mineralized quartz veins were found. All the assays returned trace gold except one of 0,01 oz/ton Au over 2,7 feet (901,3 - 804,0) in hole #16B.

It must be noted here that drilling is hampered by the deep overburden (150 to 250 feet). There are quicksand seams and numerous boulders which accounted for three abandoned holes here.

South Rhyolitic Zone

Hole #MA-85-24 was put down on line 108W near the southern boundary of the property (45+00 S) in order to test the vertical extension of mineralized zones previously intersected in the 1983 drilling. Basic to

acid volcanics were intersected some of which were mineralized with pyrite.

Within the rhyolite, a pale cream to pinkish coloured zone mineralized with 1-3% pyrite returned 0,31 oz/ton Au over 3,0 feet (450,0 - 451,0). Just down the hole from this zone, in a dacitic lava, a 6" section of massive pyrite ran 0,13 oz/ton Au over one foot (467,0 - 468,0).

In the diorite, close to the end of the hole, a small quartz vein (0,5') mineralized with blebs of pyrite was intersected. It ran 0,30 oz/ton Au over one foot.

More detailed work is justified in this area.

Northern Shear Zone

Holes #MA-85-22, 23, 25-30 were drilled in the northern part of the property as recommended by M. Jean Lavallée, eng., consultant for the Abibiti Resources interests. It was postulated that since a rich vein was

found in the tuffs, close to a shear zone at the former Bevcon mine perhaps a similar kind of structure could be found along the shear zone west of the Bevcon mine. Several holes were put down to locate the shear zone and once this was done, the remainder were drilled at steep angles south of the shear and in the same direction as the shear.

This drilling confirmed the presence of the shear zone but no economic quartz veins were intersected. Some small patches mineralized with pyrite in a silicified and epidotized tuff were intersected. The best assay was found in one of these zones in hole #25 and ran 1,86 oz/ton Au over 3,5 feet (278,5 - 282,0). These are small, local patches and difficult to correlate.

GEOLOGICAL ORE RESERVE CALCULATION:

This chapter sets out in some detail the procedures used and the results obtained from the ore reserve estimate of the Buffadison gold mine.

The data used was as follows:

- Sections prepared by Buffadison Gold Mines in 1948. (200 feet distance).
- Sections of drill holes incorporating 1985 drilling (average 100 feet apart).
- The set of level plans showing ore outlines and geology dated 1948.
- The set of plans in the planes of the veins, prepared in 1948.
- The longitudinal section prepared by the author from the noted 1948 data.
- Original drill logs when required.
- Drill logs of 1985 drilling.

It was assumed that the type of mineralization found in the underground workings would be the same in all parts of the mine, i.e.:

- The veins dip at 40º to the north or 40º to the south and do not change in dip.
- Economic mineralization terminates when the veins leave the granodiorite and enter the volcanics (on the upper levels in the case of the Buffadison area).

A set of guidelines for estimating and categorizing proven and probable

ore reserves has been built up using the continuity found in the underground drift mapping and drilling. The rules for estimating ore were built up using the cross sections at a maximum 100 foot spacing.

Using the APEO* Reserve definitions (1976):

Proven: (high confidence level):

-Recognized by drifts and raises.

-A maximum of 50 feet along the dip length if there is ore located in a drift or raise.

-Up to halfway to the next section when the continuity of the vein can be established or 50 feet along strike when the following section does not contain ore grade mineralization.

Probable (moderate confidence level):

-Recognized by two or more drill holes.

-Up and down dip: up to 100 feet where continuity is reasonable.

(*Association of Professional Engineers of Ontario)

-Along the strike: Halfway to the next section or 50 feet if there is no ore.

Inferred ore(low confidence level):

-Recognized by one drill hole only.

-The same guidelines as for possible ore except 150 feet for the dip length.

The basic parameters used were:

1. A minimum mining width of 5 ft.
2. A cut-off grade of 0,10 oz Au per ton.
3. A tonnage factor of 12 cubic feet/ton was used for tonnage calculation.
4. We cut all high assays to 1.00 oz Au per ton.
5. We assume that any necessary dilution is at 0,01 oz Au per ton.

ORE RESERVE ESTIMATE:

The estimated geological ore reserves in the Buffadison shaft are:

Proven reserves: 25,821 tons at a grade of 0.27 oz/ton AU over an average width of 2.3 feet.

Probable and inferred reserves: 205,495 tons at a grade of 0.29 oz/ton Au over an average width of 1.9 feet.

CATEGORY	TONNAGE	%	GRADE oz/ton Au	WIDTH FT
Proven	25,821	(11%)	0.27	2.3
Probable	144,194	(62%)	0.30	1.9
Inferred	61,301	(27%)	0.26	1.9
Total	231,316		0.29	1.9

ESTIMATE OF DILUTION AND MINING RECOVERY

(A) Dilution:

i)The proven reserves have an average width of 2.3 feet the average mining width is 5.0 feet therefore the dilution will be 117% (2.7/2.3).

ii)The total reserves have an average width of 1.94 feet and the

average mining width is 5.0 feet so the amount of dilution will be 158% (3.06/1.94).

iii)It is estimated by the inspection of the sections that the grade of the diluting material would be 0.01 oz/ton Au.

(B) Estimated mining recovery:

It's estimated that the mining recovery will be: 98%

ESTIMATE OF MINEABLE RESERVES IN THE DEPOSIT

(A)Using the proven category only:

-Proven ore reserves	: 25,821 tons at 0.27 oz Au/t
-Proven recoverable ore reserves (98%)	: 25,304 tons at 0.27 oz Au/t
-Estimated diluting material (117%)	: 29,605 tons at 0.01 oz Au/t
-Estimated mineable ore reserves	:54,909 tons at 0.13 oz Au/t

REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.

(B) Using proven, probable, possible and inferred tonnage:

I)Proven	: 25,821 tons of .27 oz Au/t
II)Probable and inferred	: 205,495 tons of .29 oz Au/t
III)Total tonnage	: 231,316 tons of .29 oz Au/t
IV)Total recoverable tonnage(98%)	: 226,689 tons of .29 oz Au/t
V)Estimated dilution material	
(158%)	: 358,169 tons of .01 oz Au/t
VI)Estimated tons mineable	: 584,859 tons of .12 oz Au/t

MINEABLE: 584,859 tons

0.12 oz/ton Au

MINEABLE RESERVES AT THE BEVCON AND BUFFADISON MINES:

A special report written in 1968, by Mr. Neil MacIsaac, the mine geologist, at Bevcon Mines Ltd., gives his estimate of the possible drill indicated gold ore reserve at the Bevcon mine closure in 1965. The report gives ore

reserve figures for every level from the 500 level to the last level, the 2,225 level, and also an estimate of the drill indicated ore below the 2,225 level. The report presents the figures in three groups of grades as follows:

		Tons	oz Au/ton
Tons Above 2225' level	=	516,460	0.111
Tons Below 2225' level	=	151,430	0.126
Sub Total	=	667,890	0.114
Plus 10% Allowance Factor (Extra break from tails, over and underlaps).		66,789	0.114
TOTAL	=	734,679	0.114

Grade Distribution

Grade Grouping	Tons	+10% Allowance	Tons Distribution
0.08 - 0.0 =	95,975	+ 9,597	=105,572 (14%)
0.10 - 0.12 =	391,015	+ 39,101	=430,116 (59%)
0.13 and over=	180,900	+ 18,090	=198,990 (27%)
		TOTAL=	734,679

(1) No allowance for dilution is included in the above tonnage and grade estimate (During operation a 10% dilution factor was generally used).

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(2) All high assays except below the 2225' level are cut to 0.15 oz Au.

(3) A factor of 12 Cu. ft./ton was used.

(4) All the above tonnage was considered suitable for selective narrow vein mining. A small percentage may be considered as amenable to a shrinkage method.

TOTAL ORE RESERVES ON LOUVICOURT PROPERTY

(Including both the Bevcon and the Buffadison ore bodies)

	TON	OZ AU/TON	
Bevcon:	734,679	0.114	(Mc Isaac,1968)
Buffadison:	584,859	0.12	(A. Khobzi,1986)
TOTAL :	1,319,538	0.116	

All the working data, tables, plans and sections are annexed to the geological work report, April 1986 (A. Khobzi, Eng. et al).

REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.

CONCLUSIONS AND RECOMMENDATIONS:

An exploration program was carried out in 1985 on the Louvicourt property of Mid-Canada Gold and Copper Mines in joint venture with Abitibi Resources Ltd. It consisted of linecutting, an IP survey and 29,008 feet of diamond drilling. With the information gained from this work, a more detailed evaluation of the economic potential of the property is possible.

On the former Buffadison shaft area, a total of 17,193 feet was drilled on 50 to 200 foot centers in order to increase the ore reserve estimate to the 1000 foot level. The new ore reserve estimate has been calculated at 584,859 tons of mineable ore at a grade of 0.12 oz/ton Au. This drilling program also was successful in intersecting some new auriferous quartz veins (Appendix A).

An underground exploration program is warranted on the Buffadison property for the following reasons: during the life of the Bevcon mine to the east, auriferous quartz veins were successfully exploited between the 1000 foot and 2225 foot levels. It is probable that similar vein structures

exist at depth on the Buffadison property due to the geological similarities between the two deposits. There has never been a systematic exploration program conducted in the Buffadison shaft area to search for ore below the 1000 foot level.

In order to efficiently explore for deeper ore, an underground rehabilitation will be necessary. This would involve dewatering both the former Bevcon and Buffadison shafts as the workings are joined at the fifth level (960 ft).

The underground exploration phase can be divided into three phases:

Phase one would involve erecting the surface installations and rehabilitating the underground workings. The surface construction includes the site preparation, access road, buildings, shaft, hoist, compressor, electrical installations and necessary drainage facilities. The total cost estimate for the surface construction is $1,725,000.

The second step in phase one involves the underground dewatering and

rehabilitation. This will also include a 5000 ton bulk sample from a strategic location. Three thousand feet of drifting is recommended to:

a) Allow for diamond drilling to prove inferred reserves.

b) Drift along mineralized structures to confirm ore continuity and establish a more precise grade for the gold mineralizaton.

The costs are estimated at $1,895,000.

The operational costs for a twelve month period are estimated at $500,000. An additional $370,000 is necessary to keep the mine operational for an additional seven months following the construction phase.

The entire cost estimate for Phase I is $5,165,000.

Phase two of the program will involve the exploration work. At this time, a detailed study of the mine plans will be undertaken and all this information duly assembled in an orderly fashion. Detailed underground

mapping and sampling will then be carried out. Specific drill tragets can then be recommended and underground drilling commenced. Forty thousand feet of drilling is recommended.

Exploration on the remainder of the property should be concentrated on the southwest rhyolite zone and the "New Louvre" zone in the northwest where encouraging results have been obtained. Detailed mapping and geophysical surveys should be carried out in these areas. Pending the results of these surveys, diamond drill targets may be suggested. A total of 10,000 feet of drilling is recommended.

The total cost estimate for Phase two is $1,955,000. The combined cost estimate for Phases one and two is $7,120,000.

Phase three would consist of an evaluation program of all underground and surface exploration work. A feasibility study would then be undertaken to determine whether the mine could be brought into production. This phase is necessarily dependent on the results of the previous two phases.

It is estimated that between one and one and a half years will be necessary to carry out phases one and two of this program.

A detailed cost estimate for the various phases of this program follows.

For the surface installation, dewatering of the shaft and some drifting over a period of 12 months.

PHASE 1A:

Surface construction

Access Road	$ 30,000
Decantation Pond	10,000
Site Preparation	60,000
Buildings (trailers)	125,000
-dry, coreshack, watchman's shack	
Core racks	45,000
Shaft (Head Frame)	325,000
Hoist building and foundations	170,000

Hoist (purchase and installation)	450,000
Electricity	
- Hydro Quebec	20,000
- Surface installation	130,000
Drinking water system	25,000
Sewers and drainage	25,000
Compressor (purchase and installation)	100,000
Cage, skips, cables, sheave wheel	80,000
	1,595,000
Engineering	90,000
Supervision	40,000
Total Phase 1A	**$ 1,725,000**

PHASE 1B:

Underground Work and Costs

Dewatering and rehabilitation	$ 400,000
Shaft bottom and 3 lip pockets	120,000

Pumps (level 3 to 6 and shaft bottom)	90,000
Electricity underground; wiring etc...	80,000
Drifting - 3,000 ft at $250/ft	750,000
Bulk sample: mining : 5000 tons at $30/ton	150,000
milling: $25/ton	125,000
transportation: $3/ton	15,000
Rehabilitation of existing drifts,	
1500 ft at $110/ft	165,000
Total Phase 1B	**$1,895,000**

MONTHLY OPERATIONAL COSTS

for a 12 month period

Company personnel	
a) superintendant	$ 3,500/mo
b) 2-surveyors	4,500/mo
c) 2-samplers	4,000/mo
d) 2-geologists	6,000/mo
	$ 18,000/mo
marginal benefits	3,600/mo

Watchkeeping	7,000/mo
Hydro Quebec	10,000/mo
General Expenses	3,000/mo
sub-total	$ 41,600/mo
TOTAL $41,600/mo X 12 mos	**$ 500,000.00**

Monthly fees after construction, 7 months

Personnel engaged in underground work, furnished by contractor but not included in his fees.

a) 2 - hoist operators

b) 2 - cagetenders

c) 2 - platform-men

d) 1 - mechanic

e) 1 - electrician

Total 8 men/ day

at $35/hour = $2,240/day

X 5.5 days/week = $12,320/week

X 30 weeks	$ 370,000

TOTAL PHASE I:

Surface construction	$1,725,000
Underground work	1,895,000
Monthly expenses - 12 mo	500,000
- 7 mo	370,000
	4,490,000
15% contingency	675,000
	$5,165,000

PHASE II:

Exploration Work

A) Choose targets, plan underground project

B) Descend drills.

C) Sampling and drilling

D) Detailed mapping

E) Bulk sampling

F) Manage underground work

(raises, drifts etc..)

G) Exploration on remainder of property.

Drilling underground	40,000 ft X $30./ft	=	$ 1,200,000
Drilling surface	10,000 ft X $30./ft	=	300,000
Sampling		=	50,000
Geophysical and other surveys		=	80,000
Management fees		=	70,000
			$ 1,700,000
Contingencies (15%)			255,000
TOTAL PHASE II			**$ 1,955,000**

Total Cost Estimate

1) Surface & Underground	$ 5,165,000
2) Exploration	1,955,000
TOTAL FOR THE PROJECT	$ 7,120,000

REPORT ON THE LOUVICOURT PROPERTY; ABITIBI RESOURCES LTD.,

PHASE III: Evaluation program of all underground and surface exploration work. Feasibility study for mining production if results of Phase II warrant it.

Respectfully submitted,

Abdelkader Khobzi, Eng. M.Sc.

Alain J. Beauregard, B.Sc.

Diana L. Sullivan, B.Sc.
Consulting geologists

April 30th, 1986.
AK,AJB,DLS/lv

REPORT ON THE LOUVICOURT PROPERTY, ABITIBI RESOURCES LTD.

BIBLIOGRAPHY

BAYNE, A.S.; 1970

Report of feasibility study. Trans Canada Copper Mines Ltd.

BUFFAM, B.S.W.; 1948

Rapport privé à la compagnie Bevcourt.

DEPT. NAT. RESOURCES

Metallic Mineralization, Noranda, Mattagami, Val d'Or, Special paper 2.

DRESSER JOHN, DENIS T.C.

Geological report No:20, Geology of Quebec, Vol. 3, Quebec Dept. of Mines.

EVEREST, P.G.; 1948

Report on examination of the Bevcourt Gold Mines.

GREER, W.L.C.; 1952

Report, Bevcourt Gold Mine Ltd.

HOLBROOKE, G.L.; 1951

Report on Geology and possibilities, Bevcourt Gold Mine Ltd.

HONSBERGER, J.A.; 1970

Report on Copper property Trans Canada Copper Mines Ltd.

INGHAM, W.N.; 1945

Buffadison Gold Mines Ltd, Quebec Dep. Mine (GM 8406)

REPORT ON THE LOUVICOURT PROPERTY, ABITIBI RESOURCES LTD.

INGHAM, W.N.; 1948

Buffadison Gold Mines Ltd., Quebec Dep. Mine (GM 8407)

INGHAM, W.N.; 1948

Bevcourt Gold Mines Ltd, Quebec Dep. Mine (GM 8410)

KEMPTHORNE, H.R.; 1957

Bevcon Mine; Structural Geology of Canadian Ore Deposits, Vol. II, pp. 416-419, C.I.M.M.

LAVALLEE, J.; 1983

Report on Louvicourt township property of Mid-Canada Gold and Copper Mines Ltd.

LAVALLEE, J; 1985

Abitibi Resources Ltd, Geological report on its optioned Louvicourt property.

MC ISAAC, N.

Estimate of possible drill indicated reserves at mine closure-1965. Bevcon Gold Mines.

MINISTERE ENERGIE, MINES ET RESSOURCES, OTTAWA (1974)

Fiche de gîte: Bevcon et Buffadison.

MURRAY WATTS; 1952

Report, Bevcourt Gold Mines Ltd.

PUDIFIN, A.D.; 1968

Report on Dumont Nickel Corporation. R. Joseph Claim group, Louvicourt Township.

REPORT ON THE LOUVICOURT PROPERTY, ABITIBI RESOURCES LTD.

QUEBEC DEPARTMENT OF ENERGY AND RESOURCES

Geoscientific Compilation, Map 32C/3-0201, 1977.

QUEBEC DEPARTMENT OF ENERGY AND RESOURCES

Special Study "Metallic Mineralization, Areas of Noranda, Matagami, Val d'Or, Chibougamau" Quebec, 1977.

REPORT; 1932

Report on Wyeth-Jowsey Property (Louvicourt Township), 1932.

SAUVE, P.; 1985

Géologie de la Mine Bevcon. IREM.

SET OF...

Set of level plans and vertical X-sections, Bevcon Gold Mines file.
Set of level plans and vertical X-sections, Buffadison Gold Mines file.

SHARPE, J.I.; 1968

Canton Louvicourt; Min. Rich. Nat. Québec, Rapport géologique 135.

TABLE I

LIST OF CLAIM TITLES

CLAIMS	LOCATION		AREA IN ACRES
A-87514	W.Central Pt. Lot 43	Range VII	
A-87515	Central Pt. Lot 41	" "	
A-87516	Central Pt. Lot 40	" "	162
A-87953	North Pt. Lot 41	Range VII	
A-87954	E. Central Pt. Lot 42	" "	
A-87955	N. Central Pt. Lot 43	" "	
A-87956	W. Central Pt. Lot 44	" "	
A-87957	N. Central Pt. Lot 35	" "	70
A-87957	N.Central Pt. Lot 36	Range VII	27
A-48879	S+N Pts Lots 33-34	Range VII+VIII	
A-48880	S+N Pts Lots 34-35-36	" " "	
A-48881	S+N Pts Lots 36-37	" " "	
A-48882	S+N Pts Lots 37-38-39	" " "	
A-48883	S+N Pts Lots 39-40	" " "	187
C-5021-1	E. Part Lot 46	Range VIII	
C-5021-2	E. Part Lot 51	Range VII	88
C-5181-4	E. Part Lot 47	Range VII	46

CLAIMS	LOCATION		AREA IN ACRES
C-5846-2	E. Part Lot 50	Range VII	
C-5846-3	E. Part Lot 49	" "	88
C-5848-5	W. Part Lot 48	Range VII	113
C-7629-1	N. Part Lot 43	Range VI	
C-7629-2	N. Part Lot 40	" "	
C-7629-3	N. Part Lot 38	" "	38
C-5592-1	W. Part Lot 48	Range VIII	
C-5592-2	SE Part Lot 40	Range VII	
C-5592-3	N. Part Lot 39	Range VI	135
413932-3	N. Part Lot 40	Range VI	11
181567-1	S.Central part Lot 39	Range VII	
181567-2	S.Central part Lot 38	Range VII	168
181568-1	Central Part Lot 37	Range VII	
181568-2	Central Part Lot 36	" "	
181568-3	Central Part Lot 35	" "	148

MINING CLAIMS, TOTAL AREA: 2,006 acres

CLAIMS	LOCATION		AREA IN ACRES
C-5181-1	S. Part Lot 38	Range VIII	
C-5181-2	S. Part Lot 39	" "	
C-5181-3	S. Part Lot 40	" "	116
G-647-1	W. Part Lot 46	Range VII	121
G-647-2	W. Part Lot 47	" "	117
C-2795-4	S. Part Lot 44	Range VIII	36
C-2795-1	S. Part Lot 41	Range VIII	
C-2795-2	S. Part Lot 42	" "	99
C-2796-2	W. Part Lot 47	Range VIII	48
C-20138-3	E. Part Lot 46 to 51	Range VII	
C-20138-5	E. Part Lot 46	Range VIII	
C-20138-7	E. Part Lots 47-48	" "	
C-5078-1	S. Part Lot 41	Range VII	
C-5078-2	S. Part Lot 42	" "	
C-5078-3	S. Part Lot 43	" "	
C-5078-4	N. Part Lot 41	Range VI	
C-5078-5	N. Part Lot 42	" "	145
C-5079-4	W. Part Lot 50	Range VII	
C-5079-5	W. Part Lot 49	" "	38

CONTIGUOUS MINING CONCESSIONS

NUMBER	LOCATION	RANGE	ACRES
357	N+S Parts Lots 43-44-45	VII-VIII	
	W. Parts Lots 46 TO 51	VII-VIII	255
382	N. Parts Lots 42-43	VII	104
468	S. Part Lot 43	VIII	50
	CONCESSIONS, TOTAL AREA:		409 acres
	TOTAL PROPERTY AREA:		2,415 acres

All these claims are located in Louvicourt Township, County of Abitibi East, Province of Quebec.

TABLE II

ASSESSMENT WORK

LIST OF DOCUMENTS AVAILABLE AT QUEBEC GOVERNMENT OFFICE

NTS
32C/3 0201

GM 3562	Bevcon M.L. 5 ddh logs 1955, H.R. Kempthorne.
GM 8365	New Louvre G.M. Property Report 1945, H.S. Wilson.
GM 8370-A&B	Louvre G.M. Geological & composite plans 1936, H.E. Silver.
GM 8406-A	Buffadison G.M. Ltd. Property Report, W. Ingham 1945.
GM 8407-A	Buffadison Property Report, W. Ingham 1948.
GM 8410	Bevcourt G.M. Property Report, W. Ingham, 1948.
GM 8411	Bevcourt G.M. Property Report, W. Ingham 1945
GM 11891	Joseph Cls. Property Report, 1962, B.W. Marcotte.
GM 12539	Buffadison G.M.; Information Report, QDNR 1946 M. Lafontaine.
GM 22861	Joseph Cls. Property Report, J. Honsberger, 1968.
GM 12979	Dumont Nickel Corp. 4 ddh logs, G. Dumont, 1962.
GM 19362	Dumont Nickel Corp. 2 ddh logs. G.Dumont, 1966.
GM 23921	Dumont Nickel Corp. 22 ddh logs, G.Dumont, 1969
GM 25793	Dumont Nickel Corp. 6 ddh logs. G.Dumont, 1969.
GM 31536	Trans Canada Copper Mines. 5 ddh logs 1975, G. Dumont.

TABLE III

ORE RESERVE CALCULATION SHEETS

DC AG ANI PPEI NES). LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: Total

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
	2.3	0.30	25,821	1.9	0.31	144,194	1.9	0.26	61,30
		uncut 0.27			uncut 0.30			uncut 0.26	
		cut			cut			cut	
units	ft	oz/ton Au	tons	ft	oz/ton Au	tons	ft.	oz/ton Au	tons

D C/ A G AND PPER IES LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: "A"

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7100 E				1.0	0.84	104			
7200 E	1.0	0.84	625						
7250 E	1.0	0.93	208	1.0	0.93	416	1.0	0.93	208
7300 E	1.0	0.93	208	1.0	0.93	208			
7400 E	0.8	0.92	333	1.0	0.92	750	1.0	0.92	166
7500 E	0.8	0.92	166	1.6	0.30	1666			
7600 E				0.4	0.49	333	0.4	0.49	66
7700 E	0.4	0.49	166	0.4	0.49	166	0.4	0.49	100
7800 E				1.7	0.84	2125			
7900 E				3.8	0.10	3483	3.8	0.10	1108

BUFFADISON ORE RESERVES

1986.

VEIN: "A" Average + Total

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
	0.9	0.85 uncut	1706	1.5	0.46 uncut	9251	1.4	0.33 uncut	1648
		0.63 cut			0.34 cut			0.24 cut	
note: x 75% for cut assays									

BUFFADISON ORE RESERVES

1986.

VEIN: "B"

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6200 E	0.9	0.81	525	0.9	0.81	375			
6300 E	0.9	0.81	562	0.9	0.28	1181			
6450 E	1.0	0.79	870	1.0	0.79	208	1.0	0.79	312
6600 E	1.0	0.45	675	1.0	0.26	375	1.4	0.19	892
6700 E				1.7	0.12	903	1.7	0.12	425
6800 E				1.0	0.17	625	1.0	0.17	625
Average +	0.9	0.63 uncut	2632	1.1	0.30 uncut	3667	1.2	0.25 uncut	2254
Total		0.47 cut			0.22 cut			0.19 cut	

BUFFADISON ORE RESERVES

1986.

VEIN: D

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7800E				8.0	0.46	9666			
7900E				5.5	0.27	3895	5.5	0.27	1145
8000E				1.8	0.12	1462			
Average +	Total			5.2	0.38	15,023	5.5	0.27	1145

D C. A G AND PEF NES. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: E

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7700 E				1.0	1.00	406			
7800E				3.3	0.14	2200			
7900E				3.8	0.12	2612	3.8	0.12	593
Average + Total				2.9	0.14	5218	3.8	0.12	593

BUFFADISON ORE RESERVES

1986.

VEIN: F

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6450 E				1.0	1.00	389			
6520E				1.0	0.42	875			
6600E				1.0	0.45	352	1.0	0.26	677
6800E				1.0	0.34	562	1.2	0.16	175
6900E				1.2	0.16	675	0.9	0.20	300
7200E				0.9	0.20	375			
Average + Total				1.0	0.40 cut	3228	1.0	0.23	1152

BUFFADISON ORE RESERVES

1986.

VEIN: G

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6300 E				1.3	0.17	1083			
6450 E	4.5	0.21	6600						
6520 E				1.3	0.42	1056			
6600 E				1.3	0.32	1852			
6700 E				1.3	0.30	4647	1.0	0.30	469
Average	4.5	0.21	6600	1.2	0.30	4647	1.0	0.30	469

+ Total

BUFFADISON ORE RESERVES

1986.

VEIN: H

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6450 E				3.0	0.71	687	3.0	0.71	618
6520 E				1.7	0.22	1147			
Average +	Total			2.0	0.30	1834	3.0	0.71	618

BUFFADISON ORE RESERVES

1986.

VEIN: J

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6450 E	1.0	1.00	229	1.0	1.00	229	1.0		
6520 E				1.2	0.23	937			
6600 E				2.5	0.25	3187			
6700 E				4.1	0.21	3758			
6800 E				1.0	0.12	833	1.0		
6900 E				5.6	0.53	3733	5.6		
7000 E				1.0	0.16	833	1.0		
7100 E				4.2	0.11	787			
Average + Total	1.0	1.00 cut	229	2.4	0.30 cut	14,297	1.8	0.38 cut	3773

BUFFADISON ORE RESERVES

1986.

VEIN: K

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6600 E				2.1	1.00	612	2.1	1.00	262
6800 E				4.5	0.09	2812	4.5	0.09	843
6900 E				1.0	0.10	833	1.0	0.10	666
7000 E				1.3	0.45	812	1.3	0.45	528
Average + Total				2.2	0.26 cut	5069	1.8	0.28 cut	2299

BUFFADISON ORE RESERVES

1986.

VEIN: M

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6300 E				2.0	0.12	1416			
6450 E				1.0	0.19	389			
6600 E				1.4	0.25	1662			
Average + Total				1.4	0.19	3467			

BUFFADISON ORE RESERVES

1986.

VEIN: N

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6300E				0.5	0.12	416	0.5	0.12	62
6450E				1.0	1.00	916	1.0	1.00	250
6520E				1.3	0.47	1300			
6600E	1.0	0.26	352	1.2	0.14	650			
6800E				0.9	0.25	375			
Average + Total	1.0	0.26	352	1.0	0.48 cut	3657	0.75	0.71 cut	312

BUFFADISON ORE RESERVES

1986.

VEIN: lower 22

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7200 E	1.5	0.16	312	1.5	0.16	1187	1.5	0.16	687
7250 E	4.9	0.21	1020	4.9	0.21	5920	4.9	0.21	3470
7300 E	4.9	0.21	7554	4.9	0.21	1020	4.9	0.21	1531
7500 E				1.6	0.55	3750			
Average + Total	4.5	0.21	8886	2.8	0.31	11,877	3.8	0.20	5688

BUFFADISON ORE RESERVES

1986.

VEIN: upper 22

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7300E				1.1	1.00	458	1.1	1.00	687
7400E	1.0	0.53	750	1.0	0.53	1250	1.0	0.53	833
7500E				5.0	0.29	6562			
7800E				6.0	0.55	2750			
Average + Total	1.0	0.53	750	3.4	0.41 cut	11,020	1.0	0.70 cut	1520

BUFFADISON ORE RESERVES

1986.

VEIN: 22

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7200 E	1.0	0.52	208	1.0	0.52	416			
7250 E	1.0	0.25	208				1.5	0.30	312
7300 E				1.5	0.30	1437			
Average + Total	1.0	0.38	416	1.3	0.35	1853	1.5	0.30	312

BUFFADISON ORE RESERVES

1986.

VEIN: 74-P-2

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7400 E				1.6	0.43	966			
7500 E	4.8	0.14	2000	4.8	0.14	4000			
7600 E				1.0	0.24	1031			
Average + Total	4.8	0.14	2000	2.1	0.20	5997			

BUFFADISON ORE RESERVES

1986.

VEIN: L

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6300 E				1.0	0.45	687			
6520 E				0.7	0.49	379	0.7	0.49	360
6600 E				1.2	0.33	585	1.1	0.20	804
Average + Total				1.0	0.42	1651	0.9	0.29	1164

CAN GOL ND ER S L. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: B-1

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6450 E				1.3	0.13	595	1.3	0.13	216
6520 E				6.6	0.16	3000			
6700E				1.7	0.31	690	1.7	0.31	797
Average + Total				2.9	0.18	4285	1.6	0.27	1013

MID CANADA GOLD AND COPPER MINES LTD. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: upper L

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6520 E				0.8	0.14	433	0.8	0.14	541
6600 E				1.0	0.52	541	1.1	0.22	774
Average + Total				0.9	0.35	974	0.9	0.19	1315
Vein: Upper G									
6520 E				1.5	0.62	531			
vein: lower J									
6520 E				1.8	0.43	341			
6600 E				1.9	0.24	1865			
Average + Total				1.9	0.27	2206			

MID CANADA GOLD AND COPPER MINES LTD. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: 64-3-1

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6450E				1.0	0.12	208			
Vein: 64-3-2									
6450E				1.0	0.10	208			

BUFFADISON ORE RESERVES

1986.

VEIN: upper J

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6520 E				3.5	0.27	947			
6600 E				2.4	0.11	1300			
6800 E				4.7	0.10	1762	4.7	0.10	979
Average + Total				3.5	0.14	4009	4.7	0.10	979
Vein: Upper B									
6600E				1.4	0.24	583	1.4	0.24	87
Vein: 66-3-1									
6600E				1.0	0.34	208			

MID CANADA GOLD AND COPPER MINES LTD. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: 66-3-2

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6600 E				2.1	0.62	1604			
6800 E							1.0	0.29	270
Vein: Upper K									
6600 E				1.5	0.15	375	1.5	0.11	687
6800 E				1.0	0.10	208			
6900 E				3.0	0.33	1875	3.0	0.33	468
Average + Total				2.1	0.28	2458	1.8	0.20	1155
Vein: 69-B-1									
6900 E				1.0	0.11	270	1.0	0.11	333

BUFFADISON ORE RESERVES

1986.

VEIN: 69-B-2

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6900 E				1.0	0.19	229	1.0	0.19	270
Vein: upper F									
6900 E				5.0	0.10	2812	5.0	0.10	2343
7000 E				1.0	0.16	833	1.0	0.16	958
7100 E				1.0	0.40	1031	1.2	0.18	350
7200 E				1.2	0.18	500			
Average + Total				1.8	0.17	5176	2.2	0.12	3651
Vein: 69-K-1									
6900E				1.0	0.10	416	1.0	0.10	62

BUFFADISON ORE RESERVES

1986.

VEIN: lower K

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7000 E				5.0	0.34	3125	5.0	0.34	2343
7100 E				1.0	0.20	468	1.0	0.20	562
Average + TOTAL				3.3	0.32	3593	2.8	0.28	2905
Vein: 71-J-1									
7100 E				1.2	0.11	225	1.2	0.11	525
Vein: 71-J-2									
7100 E				1.0	0.16	416			
Vein: 71-J-3									
7100 E				1.0	0.98	125			

BUFFADISON ORE RESERVES

1986.

VEIN: 71-J-4

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7100E				1.0	0.74	270			
Vein: 71-J-5									
7100E				2.3	0.13	623			
Vein: 22-1									
7100E				2.3	0.21	1437			
7200E				2.2	0.30	916			
Average + Total				2.2	0.24	2353			
Vein: 74-A-1									
7400E				2.0	0.16	833	2.0	0.16	791

MID CANADA GOLD AND COPPER MINES LTD. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: 74-P-1

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7400E				1.2	0.16	750			
7500E				1.2	0.16	1000			
7600E							1.0	0.68	625
Average + Total				1.2	0.16	1750	1.0	0.68	625
Vein: 75-A-1									
7500E				1.0	0.12	395			
Vein: 75-A-2									
7500E				1.0	0.12	656			
vein: 76-S-1									
7600E				2.0	0.48	1750			

MID CANADA GOLD AND COPPER MINES LTD. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: 77-A-1

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7700E				1.2	0.58	325			
Vein: upper D									
7800E				2.0	0.17	500			
Vein: upper D1									
7800E				4.4	0.12	916			
8000E				16.5	0.24	1375			
Average + Total				7.8	0.19	2291			
Vein: lower E									
7800E				1.1	0.66	297			

BUFFADISON ORE RESERVES

1986.

VEIN: 78-E-1

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7800 E				2.6	0.50	1300			
8000 E				1.0	1.00	625			
8100 E				1.4	0.12	656			
Average + Total				1.6	0.52 cut	2581			
Vein: upper M									
6300 E							1.0	0.15	312
Vein: 63-S-1									
6300 E							2.2	0.67	1375
vein: G-1									
6520 E							1.0	1.00	166

MID CANADA GOLD AND COPPER MINES LTD.

LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: 66-S-2

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
6600E							2.1	0.11	1312
vein: 66-S-3									
6600E							1.2	0.15	500
vein: 68-S-1									
6800E							1.0	0.23	625
vein: 68-S-2									
6800E							6.5	0.21	4062
vein: 70-S-1									
7000E							1.0	0.11	625

MID JANAL GOLD AND COPPER MINES LTD. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: 71-S-1

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7100E							1.5	0.31	500
vein: 71-S-2									
7100E							1.0	0.13	333
vein: 74-1-1									
7400E							1.0	0.24	416
vein: 74-P-2									
7500E							4.8	0.14	6000
vein: 75-S-1									
7500E							2.5	0.19	1562

MID CANADA GOLD AND COPPER MINES LTD. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: 75-S-2

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
7500E							2.0	0.57	1250
Vein: 76-S-2									
7600E							1.9	1.00	712
vein: 78-S-1									
7800 E							2.5	0.10	1562
vein: 78-S-2									
7800 E							2.0	0.10	1250
vein: 78-S-3									
7800 E							1.0	1.00	625

MID CANADA GOLD AND COPPER MINES LTD. LOUVICOURT TWP.

BUFFADISON ORE RESERVES

1986.

VEIN: 81-3-1

SECTION	PROVEN			PROBABLE			INFERRED		
	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TONNAGE	WIDTH	ASSAY	TON.
8100 E							1.0	0.11	666

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 6200 E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
B	70	100	0.9	0.81	525	50	100	0.9	0.81	375					

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 6300E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
B	60	125	0.9'	0.81 uncut	562	105	150	0.9	0.28	1181					
L						110	75	1.0	0.45	687					
N						100	100	0.5	0.12	416	15	100	0.5	0.12	62
G						100	100	1.3	0.17	1083					
M						85	100	2.0	0.12	1416					
upper M											75	50	1.0	0.15	312
63-S-1											150	50	2.2	0.67	1375

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 6450 E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
B	95	110	1.0	0.79 uncut	870	50	50	1.0	0.79 uncut	208	75	50	1.0	0.79 uncut	
B-1						100	55	1.3	0.13	595	40	50	1.3	0.13	
N						100	110	1.0	1.00 cut	916	60	50	1.0	1.00 cut	
F						85	55	1.0	1.00 cut	389					
G	160	110	4.5	0.21 cut	6600										
M						85	55	1.0	0.19	389					
H						50	55	3.0	0.71	687	45	55	3.0	0.71	618
J	50	55	1.0	1.00 cut	229	50	55	1.0	1.00 cut	229	20	55	1.0	1.00 cut	91
64-3-1						50	50	1.0	0.12	208					
64-3-2						50	50	1.0	0.10	208					

MID CANADA GOLD AND COPPER MINES LTD.
ABITIBI RESOURCES LTD - JOINT VENTURE
SECTION: 6520E

LOUVICOURT TWP

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
L						100	65	0.7	0.49	379	95	65	0.7	0.49	360
upper L						100	65	0.8	0.14	433	125	65	0.8	0.14	541
B-1						80	75	6.0	0.16	3000					
N						160	75	1.3	0.47 cut	1300					
F						140	75	1.0	0.42	875					
G						130	75	1.3	0.42 cut	1056					
G-1											40	50	1.0	1.00 cut	166
upper G						85	50	1.5	0.62	531					
lower J						35	65	1.8	0.43	341					
H						135	60	1.7	0.22	1147					
J						125	75	1.2	0.23	937					
upper J						50	65	3.5	0.27 cut	947					

MID CANADA GOLD AND COPPER MINES LTD.
ABITIBI RESOURCES LTD - JOINT VENTURE
SECTION: 6600 E

LOUVICOURT TWP

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
L						90	65	1.2	0.33	585	135	65	1.1	0.20	804
upper L						100	65	1.0	0.52	541	30	65	1.1	0.22	774
B	90	90	1.0	0.45	675	50	90	1.0	0.26	375	85	90	1.4	0.19	892
upper B						100	50	1.4	0.24	583	15	50	1.4	0.24	87
B1	50	90	6.0	0.16	2250										
N	65	65	1.0	0.26	352	100	65	1.2	0.14	650	15	65	1.1	0.11	89
F						65	65	1.0	0.45	352	125	65	1.0	0.26	677
G						190	90	1.3	0.32	1852					
M						190	75	1.4	0.25	1662					
lower J						190	65	1.9	0.24	1955					
J						170	90	2.5	0.25	3187					
upper J						100	65	2.4	0.11	1300					

MID CANADA GOLD AND COPPER MINES LTD. LOUVICOURT TWP

ABITIBI RESOURCES LTD - JOINT VENTURE

SECTION: 6600 E (cont) BUFFADISON ORE RESERVES 1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
66-3-2						100	50	3.0	0.72	1250					
66-3-1						50	50	1.0	0.34	208	30	50	2.1	1.00	262
K						70	50	2.1	1.00 cut	612					
upper K						60	50	1.5	0.15	375					
66-S-1											110	50	1.5	0.11	687
66-S-2											150	50	2.1	0.11	1312
66-S-3											100	50	1.2	0.15	500

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 6700 E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
B						85	75	1.7	0.12	903	40	75	1.7	0.12	425
B-1						65	75	1.7	0.31	690	75	75	1.7	0.31	797
G						105	75	1.0	0.30	656	75	75	1.0	0.30	469
J						110	100	4.1	0.21	3758					

MID CANADA GOLD AND COPPER MINES LTD.
ABITIBI RESOURCES LTD - JOINT VENTURE
SECTION: 6800E

LOUVICOURT TWP

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
B						100	75	1.0	0.17	625	100	75	1.0	0.17	625
N						100	50	0.9	0.25	375	115	50	0.9	0.25	431
F						90	75	1.0	0.34	562					
J						100	100	1.0	0.12	833	80	100	1.0	0.12	666
upper J						90	50	4.7	0.10	1762	50	50	4.7	0.10	979
66-3-2						85	50	1.0	0.29	354	65	50	1.0	0.29	270
K						100	75	4.5	0.09	2812	30	75	4.5	0.09	843
upper K						50	50	1.0	0.10	208					
68-S-1											150	50	1.0	0.23	625
68-S-2											150	50	6.5	0.21	4062

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 6900 E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
69-B-1						65	50	1.0	0.11	270	80	50	1.0	0.11	333
69-B-2						55	50	1.0	0.19	229	65	50	1.0	0.19	270
F						90	75	1.2	0.16	675	35	50	1.2	0.16	175
upper F						90	75	5.0	0.10	2812	75	75	5.0	0.10	2343
J						80	100	5.6	0.53	3733	45	100	5.6	0.53	2100
K						100	100	1.0	0.10	833	80	100	1.0	0.10	666
upper K						100	75	3.0	0.33	1875	25	75	3.0	0.33	468
69-K-1						100	50	1.0	0.10	416	15	50	1.0	0.10	62

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 7000 E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
upper F						100	100	1.0	0.16	833	115	100	1.0	0.16	958
J						100	100	1.0	0.16	833	110	100	1.0	0.16	916
lower K						100	75	5.0	0.34	3125	75	75	5.0	0.34	2343
K						100	75	1.3	0.45	812	65	75	1.3	0.45	528
70-S-1											150	50	1.0	0.11	625

MID CANADA GOLD AND COPPER MINES LTD.
ABITIBI RESOURCES LTD - JOINT VENTURE
SECTION: 7100 E

LOUVICOURT TWP

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
upper F						165	75	1.0	0.40	1031					
J						30	75	4.2	0.11	787					
71-J-1						45	50	1.2	0.11	225	105	50	1.2	0.11	525
71-J-2						100	50	1.0	0.16	416					
71-J-3						30	50	1.0	0.98	125					
71-J-4						65	50	1.0	0.74	270					
71-J-5						65	50	2.3	0.13	623					
lower K						75	75	1.0	0.20	468	90	75	1.0	0.20	562
22-1						100	75	2.3	0.21	1437					
71-S-1											80	50	1.5	0.31	500
71-S-2											80	50	1.0	0.13	333

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 7200E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
A	150	50	1.0	0.84 uncut	625	25	50	1.0	0.84	104					
F						100	50	0.9	0.20	375	80	50	0.9	0.20	300
upper F						100	50	1.2	0.18	500	70	50	1.2	0.18	350
lower 22	50	50	1.5	0.16	312	190	50	1.5	0.16	1187	110	50	1.5	0.16	687
22	50	50	1.0	0.52	208	100	50	1.0	0.52	416					
22-1						100	50	2.2	0.30	916					

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 7250 E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
A	50	50	1.0	0.93 uncut	208	100	50	1.0	0.93	416	50	50	1.0	0.93	208
lower 22	50	50	4.9	0.21	1020	290	50	4.9	0.21	5920	170	50	4.9	0.21	3470
22	50	50	1.0	0.25	208	230	50	1.5	0.30	1437	50	50	1.5	0.30	312

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 7300E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
A	50	50	1.0	0.93 uncut	208	50	50	1.0	0.93 uncut	208					
lower 22	370	50	4.9	0.21	7554	50	50	4.9	0.21	1020	75	50	4.9	0.21	1531
upper 22						100	50	1.1	1.00 cut	458	150	50	1.1	1.00 cut	687

MID CANADA GOLD AND COPPER MINES LTD.
ABITIBI RESOURCES LTD - JOINT VENTURE
SECTION: 7400E

LOUVICOURT TWP

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
A	50	100	0.8	0.92 uncut	333	90	100	1.0	0.92	750	20	100	1.0	0.92	166
74-A-1						100	50	2.0	0.16	833	95	50	2.0	0.16	791
upper 22	90	100	1.0	0.53	750	150	100	1.0	0.53	1250	100	100	1.0	0.53	833
74-P-2						145	50	1.6	0.43	966					
74-1-1											100	50	1.0	0.24	416
74-P-1						100	75	1.2	0.16	750					

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 7500E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
74A-2						105	75	1.0	0.12	656					
A	25	100	0.8	0.92 uncut	166	125	100	1.6	0.30	1666					
75-A-1						95	50	1.0	0.12	395					
Lower 22						375	75	1.6	0.55	3750					
74-P-1						100	100	1.2	0.16	1000					
74-P-2	50	100	4.8	0.14	2000	100	100	4.8	0.14	4000	150	100	4.8	0.14	6000
upper 22						210	75	5.0	0.29	6562					
75-S-1											150	50	2.5	0.19	1562
75-S2											150	50	2.0	0.57	1250

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 7600E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
A						100	100	0.4	0.49	333	20	100	0.4	0.49	66
76-S-2											90	50	1.9	1.0	712
76-S-1						210	50	2.0	0.48	1750					
74-P-1											100	75	1.0	0.68	625
74-P-2						165	75	1.0	0.24	1031					

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 7700E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
A	50	100	0.4	0.49	166	50	100	0.4	0.49	166	30	100	0.4	0.49	100
77-A1						65	50	1.2	0.58	325					
E						65	75	1.0	1.00	406					

MID CANADA GOLD AND COPPER MINES LTD.
ABITIBI RESOURCES LTD - JOINT VENTURE
SECTION: 7800 E

LOUVICOURT TWP

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
D						145	100	8.0	0.46	9666					
upper D						60	50	2.0	0.17	500					
upper D1						50	50	4.4	0.12	916					
A						150	100	1.7	0.84	2125					
lower E						65	50	1.1	0.66	297					
E						80	100	3.3	0.14	2200					
78-E-1						80	75	2.6	0.50	1300					
upper 22						110	50	6.0	0.55	2750					
78-S-1											150	50	2.5	0.10	1562
78-S-2											150	50	2.0	0.10	1250
78-S-3											150	50	1.0	1.00	625

MID CANADA GOLD AND COPPER MINES LTD.
ABITIBI RESOURCES LTD - JOINT VENTURE
SECTION: 7900 E

LOUVICOURT TWP

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
D						85	100	5.5	0.27	3895	25	100	5.5	0.27	1145
A						110	100	3.8	0.10	3483	35	100	3.8	0.10	1108
E						110	75	3.8	0.12	2612	25	75	3.8	0.12	593

MID CANADA GOLD AND COPPER MINES LTD.
ABITIBI RESOURCES LTD - JOINT VENTURE
SECTION: 8000 E

LOUVICOURT TWP

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
D						30	75	1.8	0.12	1462					
upper D1						20	50	16.5	0.24	1375					
78-E-1						100	75	1.0	1.00	625					

MID CANADA GOLD AND COPPER MINES LTD.

ABITIBI RESOURCES LTD - JOINT VENTURE

LOUVICOURT TWP

SECTION: 8100 E

BUFFADISON ORE RESERVES

1986

VEIN	PROVEN					PROBABLE					INFERRED				
	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE	DIP	STRIKE	WIDTH	ASSAY	TONNAGE
78-E-1						75	75	1.4	0.12	656					
81-3-1											160	50	1.0	0.11	666

APPENDIX A

1985 DRILLING RESULTS

LIST OF ASSAYS OVER 0.10 OZ/TON AU/FT

BUFFADISON SHAFT AREA

MA-85-1B	NIL		
MA-85-2	NIL		
MA-85-3	NIL		
MA-85-4	2.68 oz/ton Au / 1.0'	(399.0 - 400.0)	
	0.17 oz/ton Au / 1.0'	(453.0 - 454.0)	
	0.19 oz/ton Au / 2.0'	(533.0 - 535.0)>	
	1.34 oz/ton Au / 1.0'	(535.0 - 536.0)>	1.96/4.6 ft
	4.58 oz/ton Au / 1.6'	(536.0 - 537.6)>	
MA-85-5B	0.24 oz/ton Au / 1.0'	(458.0 - 459.0)	
	0.80 oz/ton Au / 1.5'	(482.0 - 483.5)>	0.42/4.0 ft
	0.20 oz/ton Au / 2.5'	(483.5 - 486.0)>	
	0.16 oz/ton Au / 1.0'	(575.0 - 576.0)	
	0.16 oz/ton Au / 1.0'	(597.2 - 598.2)	
MA-85-6	NIL		
MA-85-7	0.10 oz/ton Au / 1.0'	(469.3 - 470.3)	
	0.21 oz/ton Au / 2.5'	(614.5 - 617.0)	
MA-85-8	0.24 oz/ton Au / 1.0'	(116.5 - 117.5)	
MA-85-9	0.24 oz/ton Au / 1.0'	(391.0 - 392.0)	
	0.19 oz/ton Au / 1.0'	(474.5 - 475.5)	
MA-85-10B	NIL		
MA-85-11	NIL		
MA-85-12	0.14 oz/ton Au / 2.0'	(115.0 - 117.0)>	0.32/4.0 ft
	1.43 oz/ton Au / 1.0'	(118.0 - 119.0)>	
	0.13 oz/ton Au / 1.0'	(234.0 - 235.0)	
MA-85-13	NIL		
MA-85-14	0.12 oz/ton Au / 3.0'	(541.6 - 544.6)	
	0.56 oz/ton Au / 1.0'	(623.0 - 624.0)>	0.25/4.0 ft
	0.43 oz/ton Au / 1.0'	(626.0 - 627.0)>	

MA-85-15	0.11 oz/ton Au	/ 1.0'	(530.0 - 531.0)
	0.12 oz/ton Au	/ 1.4'	(578.2 - 579.6)
	0.11 oz/ton Au	/ 1.5'	(1602.5 - 1604.0)
MA-85-18	0.23 oz/ton Au	/ 1.0'	(78.0 - 79.0)
	0.15 oz/ton Au	/ 2.0'	(217.5 - 219.5)
	0.54 oz/ton Au	/ 1.1'	(252.8 - 253.9)> 0.18/4.2 ft
	0.13 oz/ton Au	/ 1.0'	(256.5 - 257.5)>
	0.51 oz/ton Au	/ 1.0'	(338.0 - 339.0)
	0.16 oz/ton Au	/ 1.5'	(379.5 - 381.0)
MA-85-19	0.10 oz/ton Au	/ 2.5'	(107.2 - 109.7)
	0.13 oz/ton Au	/ 1.0'	(131.0 - 132.0)
	0.16 oz/ton Au	/ 2.5'	(162.5 - 165.0)
	0.11 oz/ton Au	/ 1.5'	(226.0 - 227.5)
MA-85-20	0.29 oz/ton Au	/ 1.0'	(430.0 - 431.0)
	1.06 oz/ton Au	/ 1.0'	(453.0 - 454.0)
	0.21 oz/ton Au	/ 1.8'	(485.2 - 487.0)
	0.56 oz/ton Au	/ 1.0'	(504.0 - 505.0)
	3.39 oz/ton Au	/ 1.5'	(520.0 - 521.5)
MA-85-21	0.11 oz/ton Au	/ 1.0'	(366.0 - 367.0)
	0.31 oz/ton Au	/ 1.0'	(406.5 - 407.5)
	0.21 oz/ton Au	/ 1.0'	(433.7 - 434.7)
	0.14 oz/ton Au	/ 1.5'	(533.0 - 534.5)

EXPLORATION DRILLING

"New Louvre" Area

MA-85-16B	NIL
MA-85-17B2	NIL

"North Shear"

MA-85-22	0.12 oz/ton Au / 3.0' (2275.0 - 2278.0)
MA-85-23	NIL

SW Rhyolite Zone

MA-85-24	0.31 oz/ton Au / 3.0' (450.0 - 453.0) 0.13 oz/ton Au / 1.0' (467.0 - 468.0) 0.30 oz/ton Au / 1.0' (1036.0 - 1037.0)

"North Shear"

MA-85-25	1.86 oz/ton Au / 3.5' (278.5 - 282.0)
MA-85-26	NIL
MA-85-27	NIL
MA-85-28	NIL
MA-85-29	NIL
MA-85-30	NIL

GEOLOGICA INC.

APPENDIX B

Buffadison
Shaft Area

TECHNICAL DATA FOR DIAMOND DRILLING

ABITIBI RESOURCES - MID-CANADA JOINT VENTURE

HOLE #	CO-ORDINATES	AZIMUTH	DIP	LENGTH(ft)	CUMULATIVE(ft)	OVERBURDEN	
MA-85-1A	14850N-6450E	T.North	-85°	136.0	136.0	136.0	LOST
MA-85-1B	14800N-6450E	T.North	-82°	692.0	828.0	138.0	
MA-85-2	14700N-6200E	T.North	-80°	775.0	1603.0	184.0	
MA-85-3	14825N-6800E	T.North	-80°	1001.0	2604.0	123.6	
MA-85-4	14880N-6900E	T.North	-85°	1001.0	3605.0	122.0	
MA-85-5A	14850N-7000E	T.North	-85°	100.0	3705.0	100.0	LOST
MA-85-5B	14845N-7000E	T.North	-85°	997.0	4702.0	110.0	
MA-85-6	14820N-7200E	T.North	-83°	797.0	5499.0	110.0	
MA-85-7	14600N-7250E	180°	-85°	1007.0	6506.0	62.0	
MA-85-8	14700N-7400E	180°	-80°	1007.0	7513.0	72.0	
MA-85-9	14600N-7600E	180°	-85°	1006.0	8519.0	73.0	
MA-85-10A	14800N-7600E	T.North	-85°	62.0	8581.0	62.0	LOST
MA-85-10B	14800N-7600E	T.North	-85°	603.0	9184.0	145.0	
MA-85-11	14800N-6600E	T.North	-80°	837.0	10,021.0	128.0	
MA-85-12	14600N-7800E	180°	-85°	1167.0	11,188.0	91.0	
MA-85-13	14725N-7800E	T.North	-80°	604.0	11,792.0	123.0	
MA-85-14	14840N-7900E	T.North	-85°	691.0	12,483.0	182.0	
MA-85-15	14800N-8100E	T.North	-85°	2243.0	14,726.0	165.0	
MA-85-18	14500N-7550E	180°	-87°	512.0	15,238.0	77.0	
MA-85-19	14500N-7450E	180°	-87°	607.0	15,845.0	59.0	
MA-85-20	14880N-6950E	T.North	-85°	641.0	16,486.0	114.0	
MA-85-21	14880N-6850E	T.North	-85°	707.0	17,193.0	141.0	
TOTAL: 22 holes - 3 lost = 19 holes					17,193.0		

APPENDIX B

GEOLOGICA INC.

TECHNICAL DATA FOR DIAMOND DRILLING

ABITIBI RESOURCES - MID-CANADA JOINT VENTURE

Exploration Holes

HOLE #	CO-ORDINATES	AZIMUTH	DIP	LENGTH(ft)	CUMULATIVE(ft)	OVERBURDEN	
MA-85-16A	1+00S - L118W	360°	-55°	197.0	197.0	197.0	LOST
MA-85-16B	1+00S - 117+95W	360°	-55°	992.0	1189.0	187.0	
MA-85-17A	5+00N - L124W	180°	-55°	255.0	1444.0	255.0	LOST
MA-85-17B1	5+05N - L124W	180°	-65°	325.0	1769.0	130.0	LOST
MA-85-17B2	5+05N - L124W	180°	-65°	1177.0	2946.0	165.0	
MA-85-22	12+50N - L100W	180°	-65°	1187.0	4133.0	132.0	
MA-85-23	20+00N - L100W	180°	-75°	1017.0	5150.0	116.0	
MA-85-24	45+00S - L108W	180°	-70°	1117.0	6267.0	12.0	
MA-85-25	12+50N - L100W	180°	-83°	1087.0	7374.0	120.0	
MA-85-26	0+55S - L56W	360°	-75°	1001.0	8355.0	50.0	
MA-85-27	7+00N - L96W	360°	-76°	393.0	8748.0	214.0	LOST
MA-85-28	7+00N - L100W	360°	-76°	997.0	9745.0	213.0	
MA-85-29	7+00N - L104W	360°	-76°	1003.0	10,748.0	187.0	
MA-85-30	5+00N - L88W	360°	-55°	1067.0	11,815.0	213.0	
			TOTAL		11,815.0		
			PLUS BUFFADISON		17,193.0		
			TOTAL		29,008.0		

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOUT 1986
VAL D'OR
MINES

RESSOURCES ABITIBI RESOURCES LTÉE LTD

JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID-CANADA JOINT VENTURE

SONDAGE No:
HOLE No: MA-85-1A

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 6450E LONGITUDE: 14850N

ÉLÉVATION: AZIMUTH: 360°

INCLINAISON/DIP: -85° TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR Forages J.P. Bérubé

LONGUEUR/LENGTH: 136.0' DIMENSION DE LA CAROTTE/CORE SIZE: BQ

OBJECTIF/PURPOSE: SYSTEME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS

PROPRIETÉ / PROPERTY Bevcon-Buffadison
RANGE VII Lot 41 Louvicourt Twp
CLAIM NO: A87953
SECTION: 6450E
DECRIT PAR/LOGGED BY: Diana Sullivan, B.Sc.
DATE: November 1985
COMMENCE/STARTED: November 1985
TERMINÉ/COMPLETED: November 1985

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au	Ag	Cu %	Zn %		
0	136.0	OVERBURDEN										
		HOLE ABANDONED AT 136' IN OVERBURDEN - CASING BROKEN IN HOLE.										

Ministère de l'Énergie et des Ressources
Service de la Géoinformation
1 OCT. 1986
Date
13273
Code

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
1986
VAL D'OR
MINES

RESSOURCES ABITIBI RESOURCES LTÉE LTD

JOURNAL DE SONDAGE / DRILL HOLE RECORD

SONDAGE No: / HOLE No: MA-85-1B

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES

LATITUDE: 6450E LONGITUDE: 14800N

ÉLÉVATION: AZIMUTH: 360°

INCLINAISON/DIP: -82°

LONGUEUR/LENGTH: 692'

MID CANADA JOINT-VENTURE

PROPRIETÉ / PROPERTY: Bevcon-Buffadison

Louvicourt Twp RANGE: VII LOT: 41

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR : Forage J.P. Bérubé

DIMENSION DE LA CAROTTE/CORE SIZE: BQ

CLAIM NO: A 87953

SECTION: 6450E

DÉCRIT PAR/LOGGED BY: Diana Sullivan,B.Sc.

DATE: November 1985

COMMENCE/STARTED: November 1985

TERMINÉ/COMPLETED: November 1985

OBJECTIF/PURPOSE: Intersect veins #H,G,F, J,K,B.

SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS acid: 200': -83°; -89° (?); 600': -85°; Tropari @ 692' : Azimuth 267°(?) : Dip : -87°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au	Ag	Cu %	Zn %		
0	138,0	OVERBURDEN										
138,0	142,0	Sericite Schist Pale green, appears to be mixture of fine grained mafic tuff and silicified quartz - feldspar porphyry; schistosity at 20° to CA; talcose in places; one small QV (5mm) cross-cutting schistosity; several small pyrite blebs; (<1%).										
142,0	145,0	Quartz - Feldspar porphyry; silicified; pale green to grey, felsic fragments 2-3mm; 5% mafic minerals; 1% pyrite blebs; schistose (schistosity at 40° to CA), lower contact at 40° to CA;										
145,0	153,0	Mafic Tuff Fine grained, pale green; schistose (schistosity at 25° to CA); some small (1mm or less) fragments elongated along direction of schistosity; chloritized; well banded; some pyrite blebs close to contact with porphyry; lower contact at 35° to CA.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-1B
PAGE: 2 DE/OF 5

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
153,0	186,0	Granodiorite				FT						
		Dark grey, (70% mafic, 30% felsics) chloritized; sheared at 17° to CA; not mineralized; several quartz stringers (<5mm) along direction of schistosity.										
		156,5 - 162,5 - Quartz vein; milky, some tourmaline; unmineralized, contact at 20° to CA (°% along schistosity).	2101	156.5	159.0	2.5	Tr					
			2102	159.0	162.5	3.5	Tr					
		162.5 - 186.0 - 1% pyrite blebs.										
		177.0 - 177.6 - Shear zone at 26°to CA; 5% quartz stringers; granite silicified to 179.0	2103	177.0	178.0	1.0	Tr					
186.0	195.0	Quartz Porphyry										
		Pale green; silicified; quartz fragments 2-3mm; sheared contacts with granodiorite; 1% disseminated pyrite, contacts gradational.	2104	187.0	190.0	3.0	0.01					
195,0	267,0	Granodiorite										
		homogeneous, as described 153.0 - 186.0										
267,0	277,0	Contact Zone between granodiorite and quartz - feldspar porphyry.										
		Sheared (20° to CA); weathered.										
		268.0 - 269.2 - Quartz veining; small veins 10mm - 20mm; varying angles, some cross - cutting & some along schistosity.	2105	268.8	269.8	1.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-1B
PAGE: 3 DE/OF 5

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
						FT						
277.0	595.0	Quartz - Feldspar Porphyry										
		Green to grey; large (3-5) feslic fragments; rounded with various directions i.e. not aligned along a common plane; schistosity at 15° to CA; locally mineralized with blebs of pyrite; further down hole, large (5mm) feldspar phenocripts become predominant & occupy 60% of rock in finer grained mafic matrix; fragments sometimes pink in color.										
		334.7 - 336.0 - Quartz vein, upper contact 15° to CA; tourmaline veinlet along contact; several blebs of pyrite in milky quartz; 1' chill margin (333.7 - 334.7) at upper contact (silicified); sheared at lower contact along CA.	2106	334.0	336.0	2.0	Tr					
		397.0 - 402.0 - Granodiorite as above contacts at 30° to CA.										
		402.0 - 407.0 - Silicified porphyry; 1% pyrite blebs.	2107	402.0	407.0	5.0	0.01					
		467.2 - 467.7 - Quartz vein; 90° to CA; tourmaline & blebs pyrite concentrated at margins.	2108	467.0	468.0	1.0	Tr					
		476.0 - 482.0 - Granodiorite as above contacts at 15° to CA.										
		483.0 - 489.0 - Granodiorite as above contacts not well defined, not clean.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-1B
PAGE: 4 DE/OF 5

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH FT	Au oz/ton	Ag oz/ton	Cu %	Zn %		
		566.4 - 567.0 - Quartz vein at 90° to CA; blebs pyrite throughout; tourmaline concentrated at upper contact, cross-cutting schistosity; chill margins.	2109	566.0	567.0	1.0	0.01					
		572.0 - 595.0 - Silicified porphyry; 6 small (20mm or less). Quartz veins at 90° to CA, average 1% disseminated pyrite	2110	572.0	577.0	5.0	Tr	0.01				
			2111	577.0	582.0	5.0	Tr					
			2112	582.0	587.0	5.0	Tr					
		581.0 - 581.4 - Quartz vein at 90° to CA; tourmaline at margins, specks pyrite.	2113	587.0	592.0	5.0	Tr					
			2114	592.0	595.0	3.0	Tr					
595.0	620.0	Granodiorite - Sheared Contact at 20° to CA; sheared at 25° to CA; same composition as previously described.										
		604.0 - 1" Quartz vein with pyrite & tourmaline; 90° to CA; 6" chill margin on either side with dissemination pyrite (4%).	2115	603.7	604.7	1.0	0.02					
620.0	692.0	Quartz feldspar porphyry As above Contact at 30° to CA; schistosity at 35° to CA.										
		621.5 - 621.9 - Quartz vein at 90° to CA; barren, porphyry silicified for 1" on either side:	2116	621.0	622.0	1.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-1B
PAGE: 5 DE/OF 5

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag oz/ton	Cu %	Zn %		
						FT						
		648.0 - 653.0 - Silicified porphyry 2%	2117	648.0	653.0	5.0	Tr					
		disseminated pyrite.										
		663.7 - 664.7 - Quartz vein, 1/2" wide	2118	663.7	664.7	1.0	Tr					
		along CA; tourmaline at margins.										
		676.5 - 678.7 - Quartz vein; upper con-	2119	676.5	678.7	2.2	0.01					
		tact at 30° to CA; flattens along CA to										
		1/2" wide. Tourmaline at margins, occa-										
		sional bleb pyrite.										
	692.0	END OF HOLE										
		Core stored at Abitibi Resources										
		Val d'Or										
		Hole cemented.										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: HOLE No: MA-85-2

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 6200E LONGITUDE: 14700N
ELEVATION: AZIMUTH: 360°
INCLINAISON/DIP: -80°
LONGUEUR/LENGTH: 775'
OBJECTIF/PURPOSE: Intersect veins # G,H, J,K,B.

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR: Forages J.P. Bérubé
DIMENSION DE LA CAROTTE/CORE SIZE: BQ
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY: Bevcon-Buffadison
Louvicourt Twp. RANGE VII LOT: 41
CLAIM NO: A 87953
SECTION: 6200E
DÉCRIT PAR/LOGGED BY: Diana Sullivan, B.Sc.
DATE: November 1985
COMMENCE/STARTED: November 1985
TERMINÉ/COMPLETED: November 1985

TESTS 200' : -78°; 400': -85°; 600' : -88° Tropari @ 767' : Az: 333°(?)Dip: -84°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH FT	Au oz/ton	Ag	Cu %	Zn %		
0	184.0	OVERBURDEN										
184.0	775.0	Granodiorite Dark grey; (70% mafic, 30% felsic); medium grained; schistosity at 40° to CA; 5-10% quartz veinlets (5mm or less) generally oriented along schistosity; locally up to 5% fine disseminated pyrite; some hairline fractures at 20° to CA, involving slight (5mm) displacement of fine quartz veins.										
		189.0 - 190.4 - Mafic tuff; green fine grained; contact at 27° to CA; granodiorite mineralized below contact (5% pyrite diss.).	2120	190.0	195.0	5.0	Tr					
		243.0 - 245.5 - Quartz veining at 27° to CA; ~ 30% fine QV (10mm); interfingering vein material at 244.7 - 245.1	2121	243.0	245.5	2.5	Tr					
		260.0 - 268.7 - Basic dyke @ 13° to CA; Clean contacts; 2mm pale fragments elongated along CA; dark green; 10% felsic fragments.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-2
PAGE: 2 DE/OF 5

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH FT	Au oz/ton	Ag	Cu %	Zn %		
		269.5 - 272.2 - Quartz - carbonate veining at 23° to CA.										
		271.4 - 271.9 - Quartz vein, blue; lower contact at 40° to CA, cross-cutting at low angle (10-15°); unmineralized	2122	269.5	272.2	2.7	Tr					
		280.5 - 289.0 - Brecciated zone; 10% quartz & carbonate veinlets in random directions; some fine grained dark inclusions; sometimes at 12° to CA, but often interfingered; some fracturing at 10-15° to CA as well as along CA.										
		296.0 - 301.0 - Basic dyke; dark green, fine grained; clean contacts at 20° to CA.										
		324.3 - 325.2 - Quartz veins up to 2" wide at 27° to CA (25% QV).	2123	323.4	327.0	3.6	Tr					
		326.0 - Blebs cubic pyrite.										
		332.8 - Quartz vein, 1" at 90° to CA, 1 blebs cubic pyrite.	2124	332.4	333.4	1.0	0.01					
		341.4 - 343.8 - Basic dyke, as previously described; 43° to CA.										
		346.4 - 347.2 - Quartz vein, milky quartz with tourmaline & blebs cubic pyrite at 90° to CA; schistosity of grano = 27° to CA.	2125	345.0	347.5	2.5	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-2
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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
						FT						
		364.0 - 369.0 - Up to 5% coarse pyrite 2 small (2") Quartz veins (angle undertermineable).	2126	364.0	369.0	5.0	Tr					
		380.0 - 385.0 - Core weathered & broken.										
		385.0 - 390.0 - Chloritized zone.										
		403.3 - 403.7 - Quartz vein at 80° to CA; tourmaline bands, pyrite (cubic) blebs.	2127	403.0	404.0	1.0	Tr					
		412.0 - 420.3 - Quartz - porphyry dyke at 45° to CA, pale green; 20% round quartz phenocryst (2-4mm), 1-5% cubic pyrite.	2128	412.0	417.0	5.0	Tr					
		420.3 - 420.9 - Quartz vein cross-cutting core at varying angles; tourmaline; several blebs pyrite; vein at lower contact between porphyry and granodiorite.	2129	420.0	421.0	1.0	Tr					
		457.0 - 460.0 - Dark green, fine-grained rock (tuff?) gradational contact with granodiorite.										
		484.3 - 1" Quartz vein 90° to CA.										
		484.7 - 485.5 - Quartz vein at 90° to CA; tourmaline at upper contact, sheared at lower contact (30° to CA); silicified margins.	2130	484.5	486.0	1.5	0.02					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-2
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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag oz/ton	Cu %	Zn %		
						FT						
		562.0 - Quartz vein - 2 1/2"wide at 43° to CA; barren.										
		562.0 - 567.0 - 4 small (1" or less) barren quartz veins at 80° - 85° to CA.										
		587.0 - Schistosity at 40° to CA.										
		637.0 - 638.0 - Quartz vein; barren, 2" wide or less, along core axis.	2131	637.0	638.0	1.0	Tr					
		631.5 - 633.0 - Ground core.										
		637.0 - 657.0 - Quartz veinlets 5% at 40° - 50° to CA; 1" or less; barren; some quartz - carbonate.										
		646.5 - 647.2 - Ground core.										
		702.5 - Quartz vein 6" long x 1/2" wide along core axis - barren to 707.0. Quartz veinlets, 1/2" along CA.										
		734.0 - 739.0 - Quartz - Carbonate veining along CA; tourmaline; 1% scattered fine pyrite.	2132	734.0	736.0	2.0	Tr	Tr				
			2133	736.0	739.0	3.0	0.05					
		741.0 - 742.5 - Quartz veining as above.	2134	741.0	742.5	1.5	0.01					
		745.0 - 747.6 - Quartz veining as above.	2135	745.0	747.6	2.6	0.03					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-2
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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
						FT						
		752.0 - 755.0 - Quartz veining as above.	2136	752.0	755.0	3.0	Tr					
		766.0 - 767.7 - Quartz veining as above.	2137	766.0	767.7	1.7	Tr					
	775.0	END OF HOLE.										
		180' of casing left in hole.										
		Core stored at Abitibi Resources Val d'Or										
		Hole cemented.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

SONDAGE No: MA-85-3
HOLE No:

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 6800E LONGITUDE: 14825N

ÉLÉVATION: AZIMUTH: 360°

INCLINAISON/DIP: -80°

LONGUEUR/LENGTH: 1001.0

MID-CANADA JOINT VENTURE

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR : Forages J.P. Bérubé

DIMENSION DE LA CAROTTE/CORE SIZE: B.Q.

PROPRIÉTÉ / PROPERTY: Bevcon-Buffadison
LOUVICOURT TWP RANGE VII LOT 42

CLAIM NO: CM 382

SECTION: 6800E

DÉCRIT PAR/LOGGED BY: Diana Sullivan, B.Sc.

DATE: November 1985

COMMENCE/STARTED: November 1985

TERMINÉ/COMPLETED: November 1985

OBJECTIF/PURPOSE: Intersect veins K,F,N, J,B.

SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS acid: 200' : -80° ; 400': -80°; 600' : -77 1/2°; 800' : -75°; 1000': -72 1/2°.

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
0	123.6	OVERBURDEN										
123.6	174.0	MAFIC TUFF Dark green, small (0.5mm or less) lapilli-size fragments; schistose (20° to CA) remnant bedding along schistosity, numerous quartz stringers (5mm wide). 126.5 - 217.0 Brecciated zone. 131.5 - 132.5 Three quartz stringers, 6" apart and 5mm wide - cross-cutting at 35°-40 to CA. 136.5 - 137.5 Quartz stringers (10mm wide along CA; following schistosity; barren. 147.0 - 149.0 Quartz stringers, 10mm wide along CA; follow schistosity. 167.0 - 171.5 Quartz veins at 15° to CA average 40mm wide; barren. 172.0 - 174.0 Quartz porphyry ? upper contact at 17° to CA; distinctive purple blebs concentrated along plane at 25° to CA; hairline tourmaline stringer. - Chill margin?	2138	167.0	171.5	4.5	Tr					
174.0	347.0	GREY GRANODIORITE Fine grained, chloritized; 70% mafics, 30% felsics; schistose (schistosity at 22° to CA).										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-3
PAGE: 2 DE/OF 6

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		183.7 - 188.3 Quartz vein - 10% tourmaline stringers; upper contact at 20° to CA; follows schistosity; rare speck pyrite.	2139	183.7	188.3	4.6	Tr					
		212.0 - 218.0 Quartz - feldspar porphyry dyke; pale greenish - grey, large phenocrysts, rounded (3-5mm); gradational contacts with granodiorite.										
		220.0 - 265.0 Granodiorite paler in color → lighter grey.										
		265.0 - 285.0 Granodiorite coarse grained.										
		287.0 - 301.0 Quartz - feldspar porphyry as described above.										
		303.0 - 308.0 Quartz, feldspar porphyry as above, lower contact at 15° to CA.										
		317.6 Quartz vein, 4" long; upper contact at 40° to CA ± slightly cross - cutting; barren.										
		337.0 - 347.0 Granodiorite silicified, pale color.										
347.0	357.0	CONTACT ZONE Between granodiorite & quartz - feldspar porphyry.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-3
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		348.7 - 349.2 Quartz vein milky; barren lower contact at 55° to CA.	2140	348.7	349.7	1.0	Tr					
		351.7 - 352.0 Quartz vein; milky, barren; lower contact at 35° to CA.										
357.0	510.2	QUARTZ - FELDSPAR PORPHYRY Pale green-grey; large phenocrysts (3-5mm), rounded; schistose at 35° to CA.										
		387.5 - 392.0 Quartz-tourmaline veining at 15° to CA, veinlets 20mm wide; several pyrite blebs at upper contact.	2141	387.5	392.0	4.5	Tr					
		392.5 - 394.5 Core sheared and broken along CA.										
		403.7 - 405.1 Quartz vein; 30% tourmaline; lower contact at 27° to CA; several specks pyrite; broken core.	2142	403.7	405.1	1.4	Tr					
		405.9 - 410.2 Quartz vein; 50% tourmaline (some needles) some 3mm large blebs pyrite (< 1%); upper contact at 17° to CA.	2143	405.9	410.2	4.3	Tr					
		417.0 - 447.0 Mineralized with 1% pyrite cubes.	2144	422.0	427.0	5.0	Tr					
		433.2 - 434.0 Quartz vein; 30% tourmaline, traces pyrite; lower contact at 90° to CA ∴ cross - cutting.	2145	433.2	434.2	1.0	0.01					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-3
PAGE: 4 DE/OF 6

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		447.0 - 510.2 Porphyry dark grey matrix with pink & cream phenocrysts.										
510.2	517.9	BASIC DYKE Dark green, fine grained; foliated at 16° to CA; upper contact at 22° to CA.										
517.9	1001.0	GREY GRANODIORITE Coarse grained; dark grey; chloritized; local traces of fine pyrite; schistosity at 42° to CA; fairly homogeneous; < 1% fine quartz stringers (10-15mm) oriented along schistosity direction.										
		611.0 - 615.0 Sheared at 42° to CA.										
		640.0 Quartz vein - 2" wide; vuggy - cross cutting.										
		647.0 Pink feldspars becoming evident.										
		703.8 - 705.0 Quartz - tourmaline veining at various degrees to CA; traces fine pyrite; 1" to 3" wide.	2146	703.8	705.0	1.2	Tr					
		743.5 - 744.1 Quartz-carbonate vein; 20% tourmaline, barren; lower contact at 35° to CA.	2147	743.5	744.5	1.0	Tr					
		752.8 - 753.2 Quartz vein, 10% tourmaline, bleb pyrite; cross - cutting at 48° to CA.	2148	752.6	753.6	1.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-3
PAGE: 5 DE/OF 6

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag ppm	Cu %	Zn %		
		772.0 - 777.0 Sheared at 43° to CA.										
		782.0 Carbonate vein - pink, 1.5" wide; slightly cross-cutting.										
		795.5 - 796.0 Quartz vein; 10% tourmaline, < 1% pyrite; vuggy quartz; upper contact at 20° to CA.	2149	795.5	796.5	1.0	Tr	1.0				
		812.0 Quartz vein with quartz crystals; 10mm wide; at 15° to CA.										
		835.0 - 837.0 Sheared at 38° to CA.										
		870.2 - 871.0 Quartz vein, 30% tourmaline; traces pyrite.	2150	870.0	872.0	2.0	Tr					
		884.0 - 886.2 Quartz vein; 30% tourmaline; blebs pyrite at upper & lower contacts (20° to CA); orange carbonate alteration.	2251	884.0	886.5	2.5	0.01					
		923.0 - 923.3 Quartz vein; pyrite seam at upper contact (70° to CA).	2252	923.0	924.0	1.0	Tr					
		937.0 Quartz vein - barren, cross-cutting 1 1/2" wide.										
		954.8 - 955.1 Quartz vein; cross cutting at 70° to CA (upper contact); 40% tourmaline in centre of vein; barren.	2253	954.5	955.5	1.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-3
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		961.4 - 961.7 Quartz vein 15mm wide with 15% pyrite seam at lower contact (26° to CA).	2254	961.3	962.3	1.0	0.08					
		967.0 Quartz vein, 2" wide; cross-cutting - barren.										
		986.3 1" quartz, carbonate vein with pyrite.										
		997.5 - 998.0 Quartz carbonate veining; cross-cutting, 10% tourmaline at edges, lower contact at 90° to CA; barren.	2255	997.4	998.4	1.0	Tr					
1001.0		END OF HOLE										
		Core stored at Abitibi Resources, Val d'Or.										
		Hole cemented.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

SONDAGE No:
HOLE No: MA-85-4

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 6900 E LONGITUDE: 14880 N

ÉLÉVATION: AZIMUTH: 360°

INCLINAISON/DIP: -85°

LONGUEUR/LENGTH: 1001'

OBJECTIF/PURPOSE: Intersect veins K,F,N, J,B.

TESTS Acid: 200' ; -85 1/2° ; 400' : -80 1/2° ; 800' : -77° ; Tropari à 977' ; Az: 7°; Dip : -73°

MID CANADA JOINT VENTURE

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR : Forages J.P. Bérubé

DIMENSION DE LA CAROTTE/CORE SIZE: BQ

SYSTEME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY Bevcon-Buffadison
Louvicourt Twp. Range VII Lot 42

CLAIM NO: CM382

SECTION: 6900E

DÉCRIT PAR/LOGGED BY: Diana Sullivan,BSc.

DATE: November 1985

COMMENCE/STARTED: November 1985

TERMINÉ/COMPLETED: November 1985

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag ppm	Cu %	Zn %		
0	122.0	OVERBURDEN										
122.0	252.0	MAFIC TUFF Dark green, fine-grained; schistose(schistosity at 30° to CA), quartz stringers (5-10mm wide) generally oriented along schistosity; specks pyrite.										
		122.0 - 130.0 Oxidized; sheared; talcose along sheared ends, sericitized; several cubes pyrite; sheared at 30° to CA.	2266	127.0	130.0	3.0	Tr					
		156.2 - 157.2 Quartz vein; speck VG; orange carbonate alteration; upper contact at 24° to CA, sheared lower contact along CA; chloritic inclusions; trace fine pyrite.	2267	156.2	157.2	1.0	Tr					
		167.0 - 252.0 Numerous granodiorite intrusions generally cross-cutting schistosity (1' & less wide).										
		247.0 - 250.0 Quartz vein; upper contact at 26° to CA; upper contact oxidized; 3" chill margin at upper contact; 10% fine tourmaline veinlets; barren.	2268	247.0	250.0	3.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag ppm	Cu %	Zn %		
		252.0 3" quartz vein - cross-cutting at 80° to CA; barren.										
252.0	665.0	GREY GRANODIORITE										
		Blue - grey in color, chloritized; 60% mafic; 40% felsics (30% blue quartz); slightly schistose at 26° to CA;										
		255.0 - 267.0 1% fine pyrite.										
		261.0 3" shear zone, oxidized.										
		1% cross-cutting, mineralized quartz veins (5mm wide).	2269	255.0	260.0	5.0	Tr	Tr				
			2270	260.0	265.0	5.0	Tr		10.0'			
		280.2 - 280.4 Quartz vein - cross-cutting at 85° to CA; 50% pyrite; 10% tourmaline.										
		281.0 & 282.0 1 1/2" Quartz veins at 90° to CA; 5% pyrite; 5% tourmaline, 3-5% pyrite in granodiorite in between.	2271	280.0	283.0	3.0	0.01					
		285.0 Quartz vein; 1 1/2" wide; oxidized on either side; 45° to CA; tourmaline stringers & specks pyrite at lower contact.	2272	284.6	286.0	1.4	0.06					
		310.0 - 320.0 1% specks pyrite	2273	312.0	317.0	5.0	Tr					
		320.2 - 320.5 Quartz veining, 10-20mm wide at 25° to CA; 5% tourmaline; 1% pyrite specks.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-4
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag ppm	Cu %	Zn %		
		320.5 - 324.0 Basic dyke; or tuff inclusion at 30° to CA; trace pyrite.										
		343.4 - 344.0 Quartz vein cross-cutting at 90° to CA; milky with granodiorittic inclusions; traces pyrite at upper contact; 4" chill margin at upper contact.	2274	343.0	344.0	1.0	0.02					
		358.7 - 359.2 Quartz vein; oxidized; lower contact at 50° to CA.										
		Tourmaline veinlet (10mm) with 10% pyrite at lower contact; 2" chill margin as upper contact; sheared lower contact.	2275	358.0	359.0	1.0	0.10					
		372.0 - 377.0 Silicified granodiorite.										
		399.6 - 399.9 Quartz vein milky, 3% pyrite in large blebs (5-10mm), tourmaline specks concentrated at either extremity; 3" silicified chill margin on either side; granodiorite mineralized with 1% pyrite cubes on either side for 2"; upper contact at 43° to CA.	2256	397.0	398.0	1.0	Tr		> 0.33/3.0'		(cut)	
			2257	398.0	399.0	1.0	Tr					
			2258	399.0	400.0	1.0	2.68 (cut to 1oz)	2				
		430.6 - 430.9 Quartz vein cross-cutting at 80° to CA; 20% tourmaline, 1% pyrite.	2276	430.5	431.5	1.0	Tr					
		430.9 - 442.5 Basic dyke; dark green, fine grained; homogeneous.										
		447.0 - 447.3 Quartz vein; upper contact → ground core lower contact at 60° to CA; 6" chill margin at lower contact										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-4
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag ppm	Cu %	Zn %		
		449.4 - 452.0 Basic dyke as described above.										
		452.4 - 454.6 Quartz vein, milky with 3-5% tourmaline; 5% large (10mm) pyrite blebs; upper contact at 80° to CA; upper contact clean; lower contact gradational										
		→QV; 3 blebs pyrite; several needles tourmaline.	2259	452.0	453.0	1.0	0.02					
		→QV; 5% tourmaline, 5% pyrite	2260	453.0	454.0	1.0	0.17	0.07 / 3.0'				
		→QV; 5", rest granodiorite, 1% pyrite (QV has 5% tourmaline, 5% pyrite).	2261	454.0	455.0	1.0	0.02					
		462.8 Quartz veining (5mm) with tourmaline stringers & 10% coarse pyrite, lower contact at 90° to CA.	2277	462.0	463.0	1.0	0.01					
		466.0 - 469.0 3 - 5% pyrite in granodiorite.	2278	466.0	469.0	3.0	0.01					
		468.5 - 471.5 Oxidized 3" - 5"										
		473.4 - 473.9 Quartz vein, 10% carbonate; 2% tourmaline, 1% fine pyrite along contacts (at 40°to CA); sheared lower contact.	2279	473.0	474.8	1.8	0.01					
		482.0 2" Quartz vein at 80°to CA oxidized.										
		486.2 - 487.0 Quartz vein at 40° to CA; 10mm blebs tourmaline, one 1 1/2" long bleb pyrite; 6" chill margin at lower contact; 15% pyrite in granodiorite at upper contact.	2280	485.0	487.5	2.5	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-4
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag ppm	Cu %	Zn %		
		502.4 - 503.8 Quartz vein; upper contact at 50° to CA; traces fine pyrite; 30% tourmaline along bottom 1/2" of core, orange carbonate alteration.	2281	502.0	504.0	2.0	Tr					
		507.0 - 512.0 Schistose at 25° to CA.										
		515.4 - 515.6 Quartz vein at 80° to CA, several blebs pyrite, 10% tourmaline.										
		528.0, 528.6, 529.3 1 1/2" Quartz - Carbonate veins at 80° to CA; 3" chill margins on either side; 1-5% pyrite in granodiorite.	2282	527.5	532.0	4.5	Tr					
		532.0 - 537.6 Quartz vein, large (5 - 10mm) blebs pyrite, tourmaline concentrated at lower contact; upper contact at 90° to CA; granodiorite inclusions at 532.5; 6" chill margin at lower contact.										
		→ 6" QV; 6" silicified granodiorite with 3-5% pyrite cubes; QV has 3% tourmaline, traces pyrite.	2262	532.0	533.0	1.0	0.02					
		→ QV; 10% granodiorite inclusions; traces pyrite broken core.	2263	533.0	535.0	2.0	0.19					
		→ QV; white; 3% pyrite blebs 5 - 10mm in size; several tourmaline needles	2264	535.0	536.0	1.0	1.34 ← (cut to 1 oz)					
	*	→ QV; 15% large pyrite blebs & cubes (10mm); trace chalco pyrite in fine veinlets; 10% tourmaline.	2265	536.0	537.6	1.6	4.58	45	0.310			

0.53 / 5.6

JOURNAL DE SONDAGE/DRILL HOLE RECORD

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag ppm	Cu %	Zn %		
		539.4 - 540.0 Quartz vein at 90° to CA tourmaline (1") at lower contact; 5 - 10% pyrite in granodiorite for 1' on either side.	2283	537.6	541.0	4.0	0.01					
		543.2 Quartz vein; 15mm wide; 10% cubic pyrite on either side (8"); 90° to CA.	2284	541.6	543.5	1.9	Tr					
		578.0 Quartz vein; 1 1/2" wide; 10% pyrite in chill margins (3" each side) vein at 90° to CA.	2285	577.5	578.5	1.0	0.02					
		582.0 - 605.0 Sheared granodiorite sheared at 27° to CA; silicified; quartz veinlets stretched along shear direction (5mm wide).										
		605.0 - 617.0 Quartz - feldspar porphyry; pale greenish - grey; large (3 - 5mm) phenocrysts, blue quartz eyes; 1 % pyrite; sheared at 30° to CA.										
		647.0 - 657.0 Sheared granodiorite										
665.0	720.0	QUARTZ - FELDSPAR - PORPHYRY Dark grey matrix with large (3-5mm) felsic fragments; homogeneous but schistose at upper & lower contacts; upper contact at 24° to CA. 707.0 Pink carbonate vein (10mm) at 32° to CA.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-4
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag ppm	Cu %	Zn %	
		708.0 - 710.5 Mafic tuff basic dyke??; dark green with small white fragments.									
720.0	865.2	GREY GRANODIORITE as described above.									
		742.4 - 742.7 Quartz vein; concordant 30° tourmaline; trace pyrite.									
		754.3 - 755.3 Quartz vein; 15mm wide at 16° to CA; tourmaline veinlet & 5% pyrite at upper contact; sheared & silicified at lower contact.	2286	754.3	755.5	1.2	0.01				
		778.0 - 784.0 Four Quartz veins, 10-30mm wide; barren; at 47°to CA.									
		815.0 - 817.0 Sheared granodiorite at 40° to CA.									
865.2	902.0	QUARTZ - FELDSPAR - PORPHYRY as previously described except numerous pink phenocrysts; several 5mm carbonate veins, some along CA & some cross-cutting; upper contact at 26° to CA.									
		889.2 - 894.5 Sheared granodiorite at 27° to CA.									

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag ppm	Cu %	Zn %		
902.0	1001.0	GREY GRANODIORITE										
		As described above; upper contact at 35° to CA.										
		902.0 - 903.0 5% pyrite	2287	902.0	904.0	2.0	Tr					
		902.7 Shear zone → talcose.										
		937.0 - 942.0 Oxidized granodiorite.										
		961.6 - 962.5 Quartz vein; cross-cutting at 80° to CA; 5% tourmaline, barren.	2288	961.0	963.0	2.0	Tr					
		987.0 Broken core.										
1001.0		END OF HOLE.										
		Hole cemented										
		Core stored at Abitibi Resources, Val d'Or										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
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VAL D'OR
MINES

RESSOURCES ABITIBI RESOURCES LTÉE LTD

JOURNAL DE SONDAGE / DRILL HOLE RECORD

SONDAGE No: / HOLE No: MA-85-5A

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES

LATITUDE: 14850N LONGITUDE: 7000E

ÉLÉVATION: AZIMUTH: 360

INCLINAISON/DIP: -85

LONGUEUR/LENGTH: 100'

OBJECTIF/PURPOSE:

MID CANADA JOINT VENTURE

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR: Forages J.P. Bérubé

DIMENSION DE LA CAROTTE/CORE SIZE: BQ

SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY Bevcon-Buffadison
Range VIII Lot 42 Louvicourt Twp

CLAIM NO: CM382

SECTION: 7000E

DÉCRIT PAR/LOGGED BY: Diana Sullivan,B.Sc.

DATE: November 1985

COMMENCE/STARTED: November 1985

TERMINÉ/COMPLETED: November 1985

TESTS

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au	Ag	Cu %	Zn %		
0	100.0	OVERBURDEN										
		Hole abandoned at 100' because slipped off bedrock ledge.										

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MINES

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

SONDAGE No: HOLE No: MA-85-5B

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14845N LONGITUDE: 7000E
ÉLÉVATION: AZIMUTH: 360°
INCLINAISON/DIP: -85°
LONGUEUR/LENGTH: 997.0'

MID-CANADA JOINT VENTURE

PROPRIÉTÉ / PROPERTY: Bevcon-Buffadison
TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR: Forages J.P. Bérubé
DIMENSION DE LA CAROTTE/CORE SIZE: BQ
CLAIM NO: CM382
SECTION: 7000E
DÉCRIT PAR/LOGGED BY: Diana Sullivan, B.Sc.
DATE: November 1985
COMMENCE/STARTED: November 1985
TERMINÉ/COMPLETED: November 1985
OBJECTIF/PURPOSE: Intersect veins F,H,J, L,N,A.
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS acid: 200': -79° ; 400': -83°; 800': -83°; 800': -83 1/2°; 1000': -87° Tropari at 957': Az: 14 1/2°; Dip -88°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
0	110.0	OVERBURDEN										
110.0	182.0	MAFIC TUFF										
		Dark green, fine grained; schistose at 35° to CA; remnants of small felsic fragments chloritized; numerous fine quartz veinlets.										
		100.0 - 132.7 Altered zone with numerous quartz veins in various directions, silicified, generally "chewed up" looking.										
		110.0 - 112.0; 3 small (5mm - 40mm wide) quartz veins some cross-cutting, some concordant, pyrite blebs at 111.0 some tourmaline stringers.	2289	110.0	112.0	2.0	0.01					
		112.7 Broken, oxidized core.										
		112.0 - 114.0 25% quartz veinlets; traces fine pyrite and tourmaline; various angles to CA.	2290	112.0	114.0	2.0	Tr					

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		120.3 - 121.6 Quartz vein, 15mm wide along CA; barren.										
		124.2 - 126.6 Granodiorite with quartz veins at 80° to CA; lower granodiorite contact at 15° to CA.	2291	124.2	126.6	2.4	Tr					
		132.7 - 139.1 Porphyry dyke; pale greenish - grey; quartz eyes; 1-5% fine pyrite; sheared at 37° to CA.										
		133.0 - 134.5 133.0 - 134.0 Porphyry with 3-5% fine pyrite; 134.0 - 134.5. Quartz vein at 90° to CA; trace pyrite; 30% tourmaline at contacts.	2292	133.0	134.5	1.5	Tr					
		138.4 - 139.4 138.4 - 138.6 Sheared porphyry; 138.6 - 139.0 Quartz - carbonate vein; 45° to CA; vuggy quartz; trace fine pyrite; 139.0 - 139.4; sheared tuff; trace pyrite.	2293	138.4	139.4	1.0	Tr					
		140.0 Ground core										
		157.0 Quartz vein; 40mm wide at 22° to CA; barren.										
		166.0 Quartz veining at 30° to CA; 5-10mm wide, oxidized.										

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SONDAGE no:
HOLE no: MA-85-5B
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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		179.3 - 180.3 Quartz veining at 15°-35° to CA, 10% tourmaline, traces pyrite	2294	179.3	180.3	1.0	Tr					
182.0	192.0	CONTACT ZONE										
		Becomes evident that are drilling along contact between tuffs and granodiorite as half the core is granodiorite and half is tuff.										
192.0	222.0	SHEARED GRANODIORITE										
		Fine grained; dark grey-green, chloritized often mixed with portions of tuff; sheared at 23° to CA.										
		209.0 Oxidized zone; talcose along slips										
222.0	830.2	GREY GRANODIORITE										
		Greenish grey in color, blue quartz; chloritized; fairly homogeneous, 70% mafics, 30% felsics.										
		221.0 - 222.0	2295	221.0	222.0	1.0	Tr					
		Includes quartz vein at 90° to CA (221.2 - 221.4); vuggy quartz; carbonate, tourmaline, trace pyrite; granodiorite on either side mineralized with 1% pyrite cubes.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		233.0 - 234.0	2296	233.0	234.0	1.0	0.02					
		233.0 - 233.4 Granodiorite; 1% pyrite										
		233.4 - 233.9 Quartz veining at 27° to CA; 1% fine pyrite; 3% tourmaline; silicified.										
		233.9 - 234.0 Granodiorite; 1% pyrite										
		260.5 - 261.5	2297	260.5	261.5	1.0	0.04					
		260.5 - 261.5 Silicified granodiorite, 1% pyrite										
		261.0 - 261.5 Quartz vein at 50° to CA carbonate; 1% fine pyrite.										
		247.0 - 257.0 1% fine pyrite in grano.										
		265.3 - 266.3 Quartz vein (265.5-265.9) at 90° to CA; tourmaline seam at lower contact; barren; rest of split is granodiorite with 1-3% pyrite cubes & blebs.	2298	265.3	266.3	1.0	Tr					
		273.7 - 274.4 Quartz-carbonate vein; 15% tourmaline; barren at 23° to CA.										
		279.0 - 281.0 Quartz vein, 1" wide at 279.6; cross-cutting at 90° to CA, barren at 280.5, 1/2" pyrite seam with tourmaline rest mineralized (1% pyrite) granodiorite.	2299	279.0	281.0	2.0	0.01					
		284.4 - 287.9 Quartz veins, 3" wide; cross-cutting at 90° to CA; barren.										

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		288.6 - 288.9 Quartz vein, concordant at 21° to CA; carbonate; several blebs pyrite, 15mm wide.										
		317.0 Mafic inclusion										
		336.5 - 337.5	2300	336.5	337.5	1.0	Tr					
		336.5 - 337.2 Granodiorite, 1% pyrite										
		337.2 OV; 1/2"; 5mm bleb pyrite, 90° to CA.										
		337.2 - 337.5; silicified granodiorite; 3-5% pyrite. 90° to CA										
		352.0 Two quartz veins 1/2" & 1 1/2" at 40% to CA; barren.										
		365.0 - 372.0 Sheared granodiorite; sheared at 27° to CA; trace pyrite.										
		404.0 - 405.0	2301	404.0	405.0	1.0	0.01					
		404.0 - 404.5 Granodiroite; 404.5 - 405.0 Quartz vein; 90° to CA, tourmaline seam at lower contact; blebs pyrite (3mm) in granodiorite at upper contact; silicified lower contact (4")										
		433.5 - 434.5 Quartz vein at 65° to CA 15% tourmaline, 3% pyrite; silicified margins.	2302	433.5	434.5	1.0	0.09					
		434.5 - 435.8 20% quartz veining; 15-20mm wide at 70° to CA; silicified granodiorite in between with up to 10% fine pyrite.	2303	434.5	435.8	1.3	0.02					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		451.3 - 451.6 Quartz vein at 50° to CA; barren.										
		455.0 - 456.0	2304	455.0	456.0	1.0	0.04					
		455.0 - 455.3 Silicified granodiorite, 5% blebs pyrite; 455.3 - 455.6 Quartz vein; 90° to CA; tourmaline; 1% pyrite, 455.6 - 456.0 Silicified granodiorite, 3-5% pyrite.										
		456.0 - 458.0	2305	456.0	458.0	2.0	0.01	0.07	4.0'			
		456.0 - 457.0 Silicified granodiorite, 5% pyrite; 457.0 QV at 90° to CA; ground core; 457.0 - 458.0; granodiorite; 5% pyrite cubes.										
		458.0 - 459.0 Granodiorite, 5% pyrite	2306	458.0	459.0	1.0	0.24					
		458.6, 1/2" QV with 10mm blebs pyrite; 90° to CA.										
		460.0 - 462.0 QV, 10mm wide along CA										
		463.0 - 464.0	2307	463.0	464.0	1.0	0.08					
		463.0 - 463.3 Silicified granodiorite, 5% fine pyrite, 463.3 - 463.4 QV; 70% pyrite, 10% tourmaline; 90° to CA, 463.4 - 464.0 Silicified granodiorite 5% pyrite blebs.										
		475.0 - 477.0 Silicified granodiorite, 2 small (10mm) quartz veins at 50° to CA										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %	
		479.0 - 480.0	2308	479.0	480.0	1.0	0.04				
		479.0 - 479.2 Silicified granodiorite; tourmaline veinlets; 10% pyrite; 479.2 - 479.5 QV at 90° to CA; milky; 4% pyrite; 479.5 - 480.0 Granodiorite; 5% pyrite.									
		480.0 - 481.0 Granodiorite, 1-5% pyrite	2309	480.0	481.0	1.0	Tr				
		481.0 - 482.0 Quartz vein (481.2-481.9) at 28° to CA; tourmaline at lower contact trace pyrite; rest granodiorite 1-5% pyrite.	2310	481.0	482.0	1.0	0.01				
		482.0 - 483.5 Quartz vein (482.3-483.2) at 56° to CA; 5% large blebs pyrite, 15% tourmaline, rest silicified granodiorite 5% pyrite.	2311	482.0	483.5	1.5	0.80		0.34	5.0'	
		483.5 - 486.0 Silicified granodiorite with 5% pyrite & two small (10-20mm) tourmaline veins, cross-cutting & mineralized with blebs pyrite (5%).	2312	483.5	486.0	2.5	0.20				
		488.5 - 493.1 Basic dyke; dark green-grey; fine grained; QV at upper contact, 36° to CA.									
		488.0 - 489.0 Mafic inclusion.									
		522.5 - 556.5 Basic dyke; dark green, fine grained; sheared upper contact at 35° to CA; numerous quartz stringers at varying angles to CA									

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		526.5 Quartz - tourmaline vein, 10mm wide at 90° to CA; 15% pyrite.										
		549.5 - 550.5 Quartz vein (549.7 - 550.1) as varying degrees to CA; pyrite blebs (5%); tourmaline blebs; rest of split is mineralized (1% pyrite) basic dyke.	2313	549.5	550.5	1.0	0.01					
		560.4 - 567.5 Basic dyke with QV.										
		560.0 - 561.0	2314	560.0	561.0	1.0	0.02					
		560.0 - 560.3 Granodiorite 5% pyrite										
		560.3 - 560.9 Quartz vein at 60° to CA one pyrite bleb (5mm) at lower contact										
		560.9 - 561.0 Silicified basic dyke										
		561.0 - 562.5	2315	561.0	562.5	1.5	0.05					
		561.0 - 561.6 Silicified basic dyke										
		561.6 - 562.1 Quartz-Carbonate vein at 65° to CA; tourmaline needles; barren.										
		562.1 - 562.5 Basic dyke.										
		563.0 - 565.0 Scattered pyrite cubes										
		564.6 - 564.9 QV at 60° to CA; barren										
		575.0 - 576.0	2316	575.0	576.0	1.0	0.16					
		575.0 - 575.3 Silicified granodiorite										
		575.3 - 575.6 QV; 90° to CA; heavy pyrite 15%; tourmaline at lower contact.										
		575.6 - 576.0 Silicified granodiorite										
		586.3 - 586.6 QV at 90° to CA; barren.										

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SONDAGE no:
HOLE no: MA-85-5B
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		587.2 - 587.4 QV at 42° to CA; barren.										
		589.2 - 589.8 QV at 15° to CA; barren.										
		592.6 - 592.9 QV at 35° to CA, barren.										
	*	597.2 - 598.2 QV at 80° to CA; carbonate at upper & lower contacts; tourmaline veinlets & needles; 1 1/2" - 2" massive pyrite in middle of vein.	2317	597.2	598.2	1.0	0.16					
		596.0 - 610.0 1% fine pyrite in granodiorite.										
		602.6 QV (1 1/2" wide) at 90° to CA; barren.										
		632.0 QV carbonate; 1" at 45° to CA; blebs pyrite at lower contact.										
		664.0 - 665.0	2318	664.0	665.0	1.0	Tr					
		664.0 - 664.3 Granodiroite										
		664.3 - 665.0 Quartz - tourmaline veining at 38° to CA; 1% fine pyrite.										
		680.0 - 695.0 Granodiorite; pink feldspar.										
		701.4 - 703.0	2319	701.4	703.0	1.6	Tr					
		701.4 - 701.8 QV at 80° to CA; barren.										
		701.8 - 702.9 Silicified granodiorite; 1-5% pyrite										
		702.9 - 703.0 QV at 80° to CA; barren.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-5B
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		730.0 - 731.7 Silicified granodiorite with tourmaline veinlet at 731.0 (5mm) with large blebs pyrite; average 3-5% pyrite and specks tourmaline.	2320	730.0	731.7	1.7	Tr					
		757.5 - 777.0 Granodiorite sheared at 33° to CA.										
		773.0 Fracture zone.										
		822.5 - 823.5	2321	822.5	823.5	1.0	Tr					
		822.5 - 823.2 Quartz - tourmaline veining at 22°to CA; carbonate; specks pyrite.										
		823.2 - 823.5 Granodiorite										
830.2	858.0	QUARTZ - FELDSPAR PORPHYRY										
		Dark grey with large (5mm) quartz & felsic fragments.										
		845.0 - 847.0 Sheared at 23°to CA										
		852.0 - 855.0 Basic dyke, dark green, fine grained, lower contact at 34° to CA with 1" OV at lower contact in same direction as contact.										
858.0	997.0	GREY GRANODIORITE										
		As described above.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		858.0 - 870.0 Sheared granodiorite at 29°to CA										
		897.0 - 982.0 Pinkish colored granodiorite.										
		932.0 Mafic inclusion, 6"										
		920.6 QV at 80°to CA; 2" wide; barren.										
		939.0 QV at 90 to CA; 1 1/2" wide; barren.										
		959.5 QV at 90°to CA, ¾" wide; barren										
		963.5 QV at 55°to CA; 1/2"-1" wide,; barren.										
		982.0 - 982.8 Silicified zone; pink colored veinlets.										
		995.3 - 997.0 Altered zone; chloritized original textures obscured.										
997.0		END OF HOLE.										
		Hole cemented.										
		Core stored at Abitibi Resources, Val d'Or										
		90.0 feet casing left in hole.										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE *

SONDAGE No: / HOLE No: MA-85-6

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14820N LONGITUDE: 7200E

ÉLÉVATION: AZIMUTH: True North

INCLINAISON/DIP: -83° TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTORS: Forages J.P. Bérubé Ltée

LONGUEUR/LENGTH: 797.0 DIMENSION DE LA CAROTTE/CORE SIZE: BQ

OBJECTIF/PURPOSE: Test veins A & N SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY Beacon-Buffadison
Louvicourt Twp. Rg. 7 Lot 42
CLAIM NO: CM 382
SECTION: 7200E
DÉCRIT PAR/LOGGED BY: Diana Sullivan B.Sc.
DATE: November 1985
COMMENCE/STARTED: November 1985
TERMINÉ/COMPLETED: November 1985

TESTS Acid: 200' : -88 1/2°; 400' : -88 1/2°; 600' : -85 1/2°; Tropari: 797' ; Az: 5 1/2°; Dip: -85°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	110.0	OVERBURDEN										
110.0	112.0	CONTACT ZONE Resembles contact zone between mafic tuffs and granodiorite intersected in previous holes; chloritized "cooked" granodiorite; original textures obscured. 112.0 4" of rusty, weathered core.										
112.0	536.0	GREY GRANODIORITE Dark grey; medium grained; chloritized; 70% mafics; 30% felsics including blue quartz; homogeneous. 135.0 - 136.3 Quartz - tourmaline vein lower contact at 22°to CA; 3-5% pyrite concentrated along contacts. 137.0 Ground core. 160.4 Quartz vein; 20mm wide at 37° to CA; trace pyrite.	2322	135.0	136.3	1.3	0.06					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		183.2 - 183.4 Fracture zone Rusty core fractured at 45° to CA.										
		185.0 - 186.0	2323	185.0	186.0	1.0	0.01					
		185.0 - 185.3 Silicified granodiorite 5% pyrite;										
		185.3 10mm Quartz vein at 72° to CA; 50% pyrite; 20% tourmaline.										
		185.3 - 185.6 (same as 184.0-184.3)										
		185.6 - 186.0 Granodiorite.										
		186.0 - 187.0	2324	186.0	187.0	1.0	Tr					
		186.0 - 186.4 Granodiorite, 5% fine pyrite.										
		186.4 Quartz vein; 10mm wide at 72° to CA; 20% pyrite; 5% tourmaline.										
		186.4 - 187.0 Granodiorite, 1% pyrite.										
		201.4 ; Quartz vein, 10mm wide at 90° to CA; barren.										
		203.5 ; Quartz vein, 30mm wide at 80° to CA; barren.										
		204.5 ;Quartz vein, 30mm wide at 33° to CA; traces pyrite, rusty zone.										
		187.0 - 207.0 Granodiorite schistose at 35° to CA										
		219.9 - 220.1 Quartz vein; 90° to CA; tourmaline, carbonate, barren;										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		220.5 - 220.7 Quartz vein along Ca; carbonate, tourmaline; barren;										
		221.4 Shear zone at 33° to CA; rusty zone.										
		224.8 - 225.0 Quartz vein at 90° to CA; tourmaline; barren.										
		228.0 - 229.0 Quartz vein, along CA; carbonate; minor tourmaline - barren.										
		229.5 - 229.9 Quartz vein at 20° to CA; milky; trace pyrite.										
		231.0 Quartz vein; 2" wide; 90° to CA; barren.										
		232.0 - Quartz vein; 1 1/2" wide; 90° to CA; barren.										
		232.8 - 233.5 Quartz vein; carbonate, tourmaline; barren; 80° to CA at upper contact.										
		238.0 Quartz vein, 1" wide at 80° to CA; barren.										
		238.5 - 238.7 Quartz vein at 65° to CA; tourmaline; orange carbonate alteration; barren.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		251.0 - 254.0 Schistose along CA;										
		253.8 - 255.6 Quartz veining at various degrees to CA; traces fine pyrite; tourmaline, carbonate. Ground core at 254.2	2325	253.8	255.6	1.8	Tr					
		258.5 - 264.0 Granodiorite sheared at 34° to CA.										
		274.4 Rusty shear zone at 28° to CA.										
		275.8 - 277.3	2326	275.8	277.3	1.5	0.01					
		275.8 - 276.5 Silicified granodiorite; 3% pyrite.										
		276.5 - 277.0 Quartz vein; at 48° to CA; carbonate, trace fine pyrite.										
		277.0 - 277.3 Silicified granodiorite 5% pyrite.										
		282.0 - 282.7 Quartz veining at various angles to CA; barren.										
		288.0 - 291.0 Granodiorite sheared at 30° to CA.										
		341.2 - 344.4 Quartz vein at 80° to CA; milky; barren.										
		342.1 - 342.2 Quartz vein at 80° to CA; tourmaline, carbonate, trace pyrite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au Oz/ton	Ag	Cu %	Zn %		
		375.5 - 382.3 Basic dyke, dark grey-green; fine grained; tiny white phenocrysts, upper contact at 32°to CA.										
		399.0 - 340.5 Granodiorite sheared at 40°to CA.										
		426.3 - 428.4 Quartz vein; contacts obscured due to shearing at each end; broken core; tourmaline; carbonate, rusty patches; orange carbonate alteration.	2327	426.3	428.4	2.1	Tr					
		444.9 - 445.1 Quartz vein at 80°to CA; carbonate; trace tourmaline; trace fine pyrite.										
		463.5 - 463.6 Quartz vein at 80°to CA; barren; 5% pyrite in granodiorite for 3" on either side.										
		465.4 - 467.0	2328	465.4	467.0	1.6	Tr					
		465.4 - 466.6 Granodiorite; 3-5% pyrite; slightly sheared at 25°to CA.										
		466.6 - 466.7 Quartz vein at 60°to CA tourmaline; barren.										
		466.7 - 467.0 Granodiorite, 1% pyrite										
		482.6 - 483.4 Quartz veining; tourmaline; carbonate, along CA; barren.										
		496.0 - 505.0 Granodiorite sheared at 43°to CA.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		517.0 - 533.2 Granodiorite sheared at 30° to CA.										
		517.7 - 517.8 Quartz vein at 40° to CA carbonate, tourmaline, barren.										
		525.4 Quartz vein, 1/2" wide at 90° to CA; barren.										
		533.2 - 535.7	2329	533.2	535.7	2.5	Tr					
		Silicified granodiorite and quartz porphyry, 3 small (1" or less) quartz vein concordant (35° to CA); tourmaline veinlets; 1% disseminated pyrite.										
536.0	556.0	QUARTZ - FELDSPAR PORPHYRY										
		Dark grey matrix with large (5mm) pale phenocrysts; some rounded, some angular; several small (5mm) carbonate veinlets at an average of 45° to CA; blue quartz phenocrysts.										
556.0	610.0	SHEARED GRANODIORITE at 30° to CA. (as described above)										
		557.0 - 558.0	2330	557.0	558.0	1.0	Tr					
		557.0 - 557.4 Sheared granodiorite.										
		557.4 - 557.5 Quartz vein at 23° to CA several blebs pyrite.										
		557.5 - 558.0 Sheared granodiorite.										
		563.4 - 567.1 Basic dyke; dark green; very fine grained, upper contact at 31° to CA;										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		570.0 - 577.4 Basic dyke.										
		577.5 - Quartz vein at 20° to CA; 1 1/2" wide; carbonate; tourmaline; barren.										
		579.5 Quartz vein at 80° to CA; carbonate barren; 1 1/2" wide.										
		581.0 Quartz vein at 80° to CA; 1" wide; barren.										
		582.1 - 582.4 Quartz vein at 90° to CA; tourmaline; barren.										
		583.2 - 603.4 Basic dyke. (as previously described) lower contact at 32° to CA .										
		609.6 - 609.8 Quartz vein at 30° to CA; highly sheared contacts; orange carbonate alteration; trace pyrite; split includes sheared granodiorite on either side of vein.	2331	609.0	610.0	1.0	0.03					
610.0	677.6	QUARTZ - FELDSPAR PORPHYRY (as previously described) homogeneous.										
		675.0 Fracture zone with quartz - carbonate stringer (20mm wide) at 25° to CA.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
677.6	797.0	GREY GRANODIORITE (as previously described but more felsic) 701.2 - 701.4 Quartz vein at 90° to CA, clear quartz, carbonate, tourmaline, barren. 703.3 - 703.8 Quartz vein at 90° to CA; tourmaline, barren. 712.0 - 717.0 Altered & more mafic granodiorite. 718.0 - 719.0	2332	718.0	719.0	1.0	Tr					
		718.0 - 718.6 Granodiorite - altered (chlorite). 718.6 - 718.7 Quartz vein, carbonate at 32° to CA. 718.7 - 719.0 Granodiorite 5% disseminated pyrite blebs. 721.0 - 722.0 Basic dyke, dark green, fine grained. 736.4 Quartz vein at 24° to CA; tourmaline; barren, 10-20mm wide. 746.0 - 747.3 Basic dyke; as above - inderfingering contact. 764.0 Milky quartz patches → faulted ?										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		776.3 - 777.5 Basic dyke at 55° to CA, dark green; small white phenocrysts.										
		796.2 - 796.3 Quartz - tourmaline veining at 90° to CA; barren.										
797.0		END OF HOLE.										
		Hole cemented → plugs to 30' below o/b										
		Core stored at Abitibi Resources, Val d'Or										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOUT 1986
VAL D'OR
MINES

RESSOURCES ABITIBI RESOURCES LTÉE LTD

JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: HOLE No: MA-85-7

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14600N LONGITUDE: 7250E

ÉLÉVATION: AZIMUTH: 180°

INCLINAISON/DIP: -85°

LONGUEUR/LENGTH: 1007.0

OBJECTIF/PURPOSE: To intersect lower & upper 22 veins

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé

DIMENSION DE LA CAROTTE/CORE SIZE: BQ

SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY: Bevcon-Buffadison
LOUVICOURT TWP. Rg. VII Lot 42

CLAIM NO: CM 382

SECTION: 72 + 50 E

DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.

DATE: November 1985

COMMENCÉ/STARTED: November 1985

TERMINÉ/COMPLETED: November 1985

TESTS Acid : 200' : -81 1/2° ; 400' : -77 1/2° ; 600' : -71° ; 1000' : -68 1/2°

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
0	62.0	OVERBURDEN										
62.0	82.0	GREY SHEARED GRANODIORITE Dark bluish grey, chloritized; 70% mafics, 30% felsics; sheared at 35° to CA; several small (20mm or less) quartz veinlets → rusty; some weathered & broken core.										
82.0	114.0	QUARTZ - FELDSPAR PORPHYRY Dark grey matrix with large (5mm) feldspar & blue quartz phenocrysts; lightly sheared in places; rusty.										
114.0	398.6	GREY GRANODIORITE As previously described but more homogeneous.										
		117.0 - 119.5 Altered zone; silicified; sheared; random quartz veining; trace fine pyrite.	2333	117.0	119.5	2.5	Tr					
		127.0 - 129.2 Basic dyke with silicified upper contact (at 35° to CA).										
		142.6 - 143.0 Quartz vein at 80° to CA; tourmaline, barren.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		145.6 - 148.0 Altered zone; random quartz veining; rusty; tourmaline; sheared; 147.0 - 148.0 ; silicified (?) "cooked" granodiorite with red colored blebs.	2334	145.6	148.0	2.4	Tr					
		158.2 - 158.4 Quartz vein at 80° to CA; tourmaline, carbonate; barren.										
		177.0 - 237.0 Feldspars pink in color. 217.0 Broken core.										
		237.0 - 238.5 Random quartz-tourmaline veining generally 40° to CA; rusty.	2335	237.0	238.5	1.5	0.03					
		279.7 - 280.3 Altered "cooked" zone; somewhat vitreous.										
		331.7 - 332.5 Silicified zone.										
		337.0 Quartz vein; 2" wide; at 80° to CA; tourmaline, barren.										
		352.0 Quartz vein; 2" wide, tourmaline at 30° to CA; barren.										
		356.3 - 357.5	2336	356.3	357.5	1.2	0.01					
		356.3 - 356.7 Silicified granodiorite. Trace fine pyrite.										
		356.7 - 357.2 Quartz vein at 80° to CA; tourmaline; 2 (5mm) chunks pyrite plus some other blebs.										
		357.2 - 357.5 Silicified granodiorite; trace fine pyrite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		358.3 - 358.5 Quartz vein at 80° to CA; barren.										
		364.5 - 364.7 Quartz vein at 20° to CA; tourmaline, barren.										
398.6	442.4	BASIC DYKE Dark greenish - grey; fine grained; homogeneous; upper contact has some quartz veining and "cooked" appeareance; upper contact at 35° to CA; contains random quartz & carbonate stringers; sheared lower contact → broken core.										
442.4	1004.0	GREY GRANODIORITE As previously described.										
		442.5 - 443.3 Sheared granodiorite and random quartz veining; trace pyrite; rusty.	2337	442.4	443.4	1.0	Tr					
		446.0 - 448.0 Altered granodiorite; "cooked" with red alteration.										
		456.0 Rusty zone → fracture zone at 46° to CA associated with 1 1/2" quartz vein → barren.										
		459.9 - 460.6 Quartz vein at 80° to CA; homogeneous milky quartz with carbonate at either extremity; silicified granodiorite margins for 1 1/2 - 3" either side with 1% pyrite; quartz vein is barren.										

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		462.0 - 441.5	2338	462.0	464.5	2.5	Tr					
		462.0 - 463.2 Granodiorite - silicified with 5% disseminated pyrite blebs.										
		463.2 - 463.3 Quartz vein at 90° to CA; several blebs & chunks pyrite (10%); tourmaline, carbonate.										
		463.3 - 463.6 Silicified granodiorite 10% disseminated pyrite.										
		463.6 - 464.5 Granodiorite with 10mm wide Quartz - tourmaline vein along CA with 10% pyrite.										
		469.3 - 470.3	2339	469.3	470.3	1.0	0.10					
		Silicified granodiorite with 30% tourmaline & 5% pyrite; tourmaline stringer with pyrite bleb at 470.0 (10mm wide, 80° to CA).										
		475.1 - 475.4 Quartz vein at 90° to CA; barren milky quartz with tourmaline at contacts.										
		481.3 - 482.3	2340	481.3	482.3	1.0	Tr					
		481.3 - 482.0 Highly silicified granodiorite with 5% fine pyrite; quartz tourmaline stringer (10mm wide) at 481.5 with blebs pyrite.							5.0' -	Tr		
		482.0 - 482.3 Grey granodiorite.										
		482.3 - 486.3	2341	482.3	486.3	4.0	Tr					
		Silicified granodiorite with 3 5% pyrite, 2 quartz vein at 90° to CA; 1 1/2"-2" wide; barren										
		495.5 - 496.5	2342	495.5	496.5	1.0	0.05					
		Quartz vein; tourmaline at 496.0, 10mm wide at 75° to CA; rest of split is granodiorite. with 5% pyrite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		497.0 Quartz vein at 90° to CA; carbonate, tourmaline, barren; 1 1/2" wide.										
		512.0 - 517.0	2343	512.0	517.0	5.0	0.03					
		512.0 - 513.3 Fine tourmaline vein with heavy pyrite, 10mm wide along CA; rest is silicified granodiorite.										
		513.3 - 515.0 Quartz vein; tourmaline, carbonate, 10-15% blebs pyrite; cross-cutting ~60° to CA.										
		515.0 - 516.1 Silicified granodiorite, 5% disseminated pyrite.										
		516.1 - 516.7 Quartz vein at 80° to CA; carbonate, tourmaline; trace pyrite.										
		516.7 - 517.0 Silicified granodiorite, 3% pyrite.										
		525.5 - 528.0	2344	525.5	528.0	2.5	0.01					
		Silicified granodiorite with random quartz veining (generally cross-cutting) tourmaline; 5% pyrite.						7.5'	- .01			
		528.0 - 533.0	2345	528.0	533.0	5.0	0.01					
		Similar to previous split except one distinct quartz vein at 80° to CA; (528.5 - 528.9); tourmaline barren. Rest has 3-5% disseminated pyrite.										
		535.0 - 537.5	2346	535.0	537.5	2.5	Tr					
		Silicified granodiorite with tourmaline and quartz veining; 5% pyrite.										
		567.0 - 575.0 Granodiorite fine grained and sheared at 37° to CA; chloritized.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		575.0 - 598.0 Pink feldspars in altered granodiorite.										
		598.0 - 614.5 Granodiorite sheared at 35° to CA.										
	**	614.5 - 617.0 Quartz vein at 90° to CA; milky quartz with tourmaline, 5% chunks & blebs pyrite.	2347	614.5	617.0	2.5	0.21					
		624.5 - 626.0 Quartz vein at 80° to CA; tourmaline; carbonate; traces pyrite in granodiorite.	2348	624.5	626.0	2.5	Tr					
		626.0 - 628.0 Sericitized granodiorite; pale green; sheared; trace fine pyrite; 20mm quartz veins at 626.3 & 626.4.	2349	626.0	628.0	2.0	Tr	5.5'	- Tr			
		628.0 - 629.0 Quartz vein at 90° to CA; tourmaline; carbonate; barren.	2350	628.0	629.0	1.0	Tr					
		629.0 - 643.0 Granodiorite sheared at 37° to CA.										
		652.0 - 667.0 Coarse grained granodiorite with pink feldspars.										
		667.0 - 670.7 Sheared granodiorite; quartz vein at 669.5, 2" barren; 45° to CA.										
		697.7 - 698.5 Random quartz vein; carbonate, tourmaline; trace fine pyrite in vug & in granodiorite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		713.5 - 714.5 Altered granodiorite; "cooked" random quartz with 1% fine pyrite.	2212	713.5	714.5	1.0	Tr					
		725.0 - 726.0 Altered granodiorite; random quartz & carbonate, vuggy; 5% disseminated pyrite blebs.	2213	725.0	726.0	1.0	Tr					
		736.5 - 738.0 Sheared granodiorite at 35° to CA.										
		750.3 - 750.9 Quartz vein at 20° to CA; carbonate, tourmaline; trace fine pyrite; lower contact sheared to 752.4										
		771.0 - 772.0 Quartz vein along half core; tourmaline, carbonate; trace fine pyrite.										
		774.0 - 774.3 Quartz vein at 80° to CA; tourmaline, barren.										
		788.2 - 788.6 Quartz vein at 80° to CA; Tourmaline, barren.										
		789.0 - 794.0 Fine grained granodiorite.										
		806.3 - 807.6 Random quartz vein; tourmaline; flourite; carbonate, trace fine pyrite.										
		823.9 - 824.0 Quartz vein at 90° to CA; tourmaline, carbonate; barren.										
		833.4 - 833.6 Quartz vein at 90° to CA; tourmaline, carbonate; barren.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		867.0 - 939.0 Fine grained sheared granodiorite.										
		939.0 - 957.0 Very fine grained altered zone; some silicification.										
		949.0 - 954.0 Silicified zone; pale grey; trace disseminated pyrite.	2214	949.0	954.0	5.0	Tr					
		949.5 - 950.5 949.5 - 949.9 Pink altered granodiorite, 1% disseminated pyrite. 949.9 - 950.2 Quartz vein, 90° to CA, tourmaline, carbonate, grano. inclusions; Trace pyrite. 950.2 - 950.5 Same as grano. above.	2215	949.5	950.5	1.0	0.01					
		995.9 - 996.1 Quartz vein at 40° to CA; tourmaline; carbonate, barren.										
		998.4 - 998.9 Quartz vein at 27° to CA; tourmaline, carbonate, barren.										
		1003.0 - 1004.0 Quartz veining in shear zone at 37° to CA; 1-5% disseminated pyrite, quartz vein 1" to 3" wide.	2216	1003.0	1004.0	1.0	0.02					
1007.0		END OF HOLE										
		Hole cemented.										
		Core stored at Abitibi Resources - Val d'Or.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

SONDAGE No: MA-85-8
HOLE No:

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14700 N LONGITUDE: 7400 E
ÉLÉVATION: AZIMUTH: 180°
INCLINAISON/DIP: -80°
LONGUEUR/LENGTH: 1007.0

MID CANADA JOINT VENTURE
TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé
DIMENSION DE LA CAROTTE/CORE SIZE: BQ

PROPRIÉTÉ / PROPERTY: Bevcon-Buffadison
Louvicourt Twp. Range VII Lot 42
CLAIM NO: CM 382
SECTION: 7400 E
DÉCRIT PAR/LOGGED BY: Diana L. Sullifan, B. Sc.
DATE: November 1985
COMMENCE/STARTED: November 1985
TERMINÉ/COMPLETED: November 1985

OBJECTIF/PURPOSE: Intersect lower & upper 22
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS Acid: 200' : -84 1/2° ; 400' : -75° ; 600' : -73 1/2° ; 800' : -68 1/2° ; Tropari : 937' ; Az : 182° ; Dip : -71°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
0	72.0	OVERBURDEN										
72.0	75.0	BOULDER FRAGMENTS.										
75.0	182.0	GREY GRANODIORITE.										
		Dark grey, bluish quartz; chloritized; 60% mafics, 40% felsics; homogeneous.										
		77.0 Ground Core.										
		82.0 - 87.0 Rusty, weathered core, broken.										
		87.0 - 92.0 Silicified granodiorite with random quartz vein, blebs & disseminated pyrite 5% quartz vein average 30mm wide.	2217	87.0	92.0	5.0	Tr					
		95.0 Ground core.										
		98.0 - 99.0	2218	98.0	99.0	1.0	0.01					
		98.0 - 98.6 Granodiorite; pyrite blebs near quartz vein.										
		98.6 - 98.7 Quartz vein at 90° to CA; rusty; tourmaline; carbonate, barren.										
		98.7 - 99.0 Granodiorite with 10mm bleb pyrite.										

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SONDAGE no:
HOLE no: MA-85-8
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		116.5 - 117.5	2219	116.5	117.5	1.0	0.24					
		116.5 - 116.7 Silicified granodiorite, 3% dissimenated pyrite.										
		116.7 - 117.5 Quartz vein at 80° to CA; tourmaline, carbonate, large (3/4") chunks pyrite; sheared & rusty lower contact.										
		119.4 - 120.4	2220	119.4	120.4	1.0	Tr					
		119.4 - 119.8 Granodiorite (last 1" silicified) 1% disseminated pyrite.										
		119.8 Quartz vein at 90° to CA; 20mm wide; chunks pyrite.										
		119.8 - 120.4 Granodiorite, 1% fine pyrite.										
		120.4 - 122.0	2221	120.4	122.0	1.4	Tr					
		120.4 - 121.1 Granodiorite, 1-3% fine pyrite.										
		121.1 Quartz vein at 90° to CA; 10mm wide; chunks pyrite.										
		121.1 - 121.9 Granodiorite, 1-5% fine pyrite.										
		121.9 Quartz vein at 90° to CA; 10mm wide; chunks pyrite.										
		132.9 Quartz vein at 90° to CA; 1 1/2" wide; tourmaline; trace pyrite.										
		137.5 - 137.7 Quartz vein at 80° to CA; barren.										
		139.3 Quartz vein at 80° to CA; 1 1/2" wide; tourmaline, carbonate, barren.										
		148.0 Quartz vein at 90° to CA; 1" wide, barren.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-8
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		149.0 - 152.0	2222	149.0	152.0	3.0	Tr					
		149.0 - 149.4 Granodiorite, 1% pyrite.										
		149.4 - 149.7 Quartz vein at 80° to CA; chunk pyrite at lower contact.										
		149.7 - 150.0 Granodiorite, 5% pyrite.										
		150.0 - 151.8 Quartz vein at random angles to CA; tourmaline, carbonate, trace pyrite.										
		151.8 - 152.0 Granodiorite - silicified; 3% fine pyrite.										
		159.4 Rusty quartz vein (10mm wide) at 90° to CA.										
		160.0 - 182.0 Granodiorite sheared at 37° to CA.										
		169.0 - 169.7 Rusty broken core.										
		182.0 Broken core, rusty quartz vein.										
182.0	187.0	QUARTZ - FELDSPAR PORPHYRY Dark grey matrix with large (5mm) fragments, rounded & angular blue quartz fragments.										
		182.0 - 187.0 Sheared at 40° to CA.										
187.0	204.8	SHEARED GRANODIORITE Same composition as previously described except highly sheared at 38° to CA. Fracture zones at 190.5 - 190.8 ; 195.4 - 195.8 ; 200.4 - 200.6; 204.5 - 204.8.										
		196.8 - 198.2 Basic dyke; dark green, fine grained; contact at 38° to CA.										

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SONDAGE no:
HOLE no: MA-85-8
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
204.8	247.8	QUARTZ - FELDSPAR PORPHYRY										
		As previously described.										
247.8	677.7	GREY GRANODIORITE										
		As previously described.										
		281.0 - 282.0	2223	281.0	282.0	1.0	0.01					
		281.0 - 281.7 Granodiorite.										
		281.7 - 281.9 Quartz vein at 80° to CA; carbonate, 1% fine pyrite.										
	**	296.8 - 298.5	2224	296.8	298.5	1.7	0.08					
		296.8 - 297.4 Quartz vein at 80° to CA; carbonate at contacts; tourmaline veinlets; large (up to 2" long) chunks pyrite (30%).										
		297.4 - 298.2 Silicified granodiorite; 5% pyrite disseminated.										
		298.2 Quartz vein, 1" wide; trace pyrite; tourmaline, carbonate.										
		298.2 - 298.5 Silicified granodiorite; 1% fine pyrite.										
		302.0 - 307.0 Sheared at 35° to CA.										
		304.4 - 305.6 Quartz-carbonate veining; rusty; trace fine pyrite.										
		307.0 MUD SEAM, 3" long.										
		310.0 - 311.0	2225	310.0	311.0	1.0	Tr					
		310.0 - 310.6 Random quartz vein, along CA & at low angles; carbonate, tourmaline veinlets, 1% fine pyrite.										
		310.6 - 311.0 Silicified granodiorite.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		315.0 - 316.5 Fine quartz vein, tourmaline (10-20mm wide) along CA; 1% pyrite blebs in "cooked" granodiorite.	2226	315.0	316.5	1.5	0.04					
		363.4 - 363.5 Quartz vein at 70° to CA; carbonate, tourmaline, barren.										
		364.3 - 364.6 Random quartz vein, barren.										
		366.0 - 367.2 Quartz vein, tourmaline, carbonate at 80° to CA, barren.										
		378.0 - 380.0 Sheared granodiorite (at 46° to CA); broken core at 379.4.										
		403.3 - 403.9 Quartz vein at 90° to CA; carbonate, tourmaline, barren.										
		405.7 - 406.0 quartz vein at 90° to CA; carbonate, barren; 2" chill margin at upper contact.										
		409.3 - 409.5 Quartz vein at 47° to CA; tourmaline, carbonate, barren.										
		423.6 - 424.4 Quartz vein at 17° to CA; tourmaline, carbonate, barren.										
		412.0 - 426.0 Green colored feldspars.										
		442.3 - 442.5 Quartz vein at 30° to CA; tourmaline, barren.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		453.4 - 453.8 Altered granodiorite; hematized; fine grained "cooked".										
		470.0 - 485.0 Granodiorite schistose (at 33° to CA).										
		511.0 - 513.5	2227	511.0	513.5	2.5	0.01					
		511.0 - 511.3 Silicified granodiorite with 10% disseminated pyrite.										
		511.3 - 511.5 Quartz vein at 90° to CA; tourmaline, carbonate, pyrite blebs at upper & lower contacts.										
		511.5 - 512.8 Silicified granodiorite with 3-5% disseminated pyrite.										
		512.8 Quartz vein at 90° to CA, 10mm wide; blebs pyrite (5%).										
		512,8 - 513.5 Silicified granodiorite, blebs pyrite in tourmaline veinlets.										
		518.6 Ground Core.										
		520.5 - 523.4	2228	520.5	523.4	2.9	Tr					
		520.5 - 521.7 Silicified granodiorite, 5-10% disseminated pyrite.										
		521.7 - 522.1 Quartz vein at 90° to CA; tourmaline, carbonate; barren.										
		522.1 - 523.4 Silicified granodiorite, 5-10% disseminated pyrite.										
		523.4 - 525.5	2229	523.4	524.9	2.1	Tr					
		Granodiorite with fine quartz vein (10mm) at low angles to CA (10-15°); blebs pyrite.										
		528.0 Ground Core.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		537.3 - 537.6 Quartz vein at 90° to CA; tourmaline, carbonate; fine pyrite at upper contact.										
		Altered zones at 567.0; 570.0; 580.0; 581.0; 584.4; 584.9; all hematized "cooked" associated with fine pyrite, barren, quartz vein.										
		Quartz vein, tourmaline, barren at 590.4 - 590.6 (90° to CA); 618.7 - 618.8 (70° to CA); 626.4 (1" wide, 70° to CA).										
		635.1 - 637.7 Altered zone; pink color; silicified random quartz vein; all barren.										
		640.3 - Quartz vein; 1" wide at 35° to CA; barren.										
		645.6 Quartz - tourmaline veining at 32° to CA; several blebs pyrite; 1/2" wide.										
		655.2 Small quartz vein (10mm) at 45° to CA; barren; silicified margins.										
		664.0 - 665.0	2230	664.0	665.0	1.0	Tr					
		664.0 - 664.4 Silicified granodiorite, 1% pyrite.										
		664.4 Quartz vein, 10mm wide at 70° to CA; blebs pyrite (15%).										
		664.4 - 665.0 Silicified granodiorite; 1% pyrite blebs.										
		666.0 - 667.0	2231	666.0	667.0	1.0	Tr					
		666.0 - 666.7 Silicified, sheared granodiorite; 5% disseminated pyrite.										

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SONDAGE no:
HOLE no: MA-85-8
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		666.7 - 666.8 Quartz vein at 90° to CA; tourmaline, carbonate; blebs (10%) pyrite at contacts.										
		666.8 - 667.0 Silicified granodiorite, 5% pyrite.										
		667.0 - 672.0 Sheared granodiorite.										
		669.9 - 670.2 Random quartz veining with pyrite along contacts.										
		672.0 Tourmaline veining with blebs pyrite at 45° to CA; pink chill margin at lower contact.										
677.7	721.0	BASIC DYKE Greenish - black; very fine grained; occasional blebs pyrite; fairly homogeneous; sheared upper contact.										
		682.0 - 683.5 Quartz vein at 90° to CA; 5% pyrite blebs, carbonate.	2232	682.0	683.5	1.5	Tr					
		690.9 - 691.2 Quartz vein at 50° to CA; carbonate, tourmaline; pyrite in dyke (1%) at either extremity.										
		693.0 - 694.0 693.0 - 693.3 Lightly silicified basic dyke. 693.3 - 693.8 Quartz vein at 90° to CA; tourmaline, carbonate, bleb pyrite (1" long). 693.8 - 694.0 Lightly silicified dyke.	2233	693.0	694.0	1.0	0.02					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-8
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %	
		695.4 - 695.8 Quartz vein at 80° to CA;tourmaline, carbonate, barren.									
		721.0 Lower contact gradational.									
721.0	817.0	ALTERED GRANODIORITE Often pale pink in color, fine grained; original textures often obscured.									
		722.5 - 724.5 Pale silicified granodiorite; fine grained; 5% fine pyrite, some in veinlets.	2234	722.5	724.5	2.0	Tr				
		745.0 - 747.5 Quartz vein along CA; occupies 3/4 of core width; grano inclusions pink in color; orange carbonate alteration; tourmaline; trace pyrite.	2235	745.0	747.5	2.5	0.02				
		748.5 - 749.0 Quartz vein at 15° to CA; barren; 1" wide.									
		768.8 - 769.8 768.8 - 769.0 Quartz vein at 30° to CA; bleb pyrite. 769.0 - 769.2 Silicified granodiorite. 769.2 - 769.8 Quartz vein at 80° to CA; 2 blebs pyrite; tourmaline.	2236	768.8	769.8	1.0	Tr				
		777.0 - 785.0 Sericitized granodiorite; several low angle, barren quartz veins									
		787.0 - 817.0 Pink "cooked" granodiorite, trace fine pyrite.									

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-8
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
817.0	1007.0	PINK GRANODIORITE										
		Similar to units previously described.										
		877.0 - 878.0 Altered zone - fine grained; lightly sheared at 45° to CA, "cooked".										
		896.5 - 897.5 Quartz vein along CA; tourmaline, carbonate, barren, occupies 1/2 core width.										
		920.6 - 921.3 Same as above.										
		937.0 - 938.5 Altered zone; random quartz - tourmaline veining; fine grained; silicified; shcistose.										
		975.0 Broken core, lightly sheared.										
1007.0		END OF HOLE.										
		HOLE CEMENTED.										
		Core stored at Abitibi Resources - Val d'Or.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-9

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14600 N LONGITUDE: 7600 E
ÉLÉVATION: AZIMUTH: 180°
INCLINAISON/DIP: -85°
LONGUEUR/LENGTH: 1006.0

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé
DIMENSION DE LA CAROTTE/CORE SIZE: BQ

PROPRIÉTÉ / PROPERTY Bevcon Buffadison
Louvicourt Twp. Range VII Lot 43
CLAIM NO: CM 382
SECTION: 7600 E
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B. Sc.
DATE: November 1985
COMMENCÉ/STARTED: November 1985
TERMINÉ/COMPLETED: November 1985

OBJECTIF/PURPOSE: Intersect lower-upper "22" SYSTEME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS Acid L 200' : -83° ; 400' : -80° ; 600' : -79° ; 800' : -68 1/2° ; Tropari à 957' : Az : 180° : Dip : -68°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
0	73.0	OVERBURDEN										
73.0	79.5	QUARTZ - FELDSPAR PORPHYRY (?) Silicified, pale green, blue quartz eyes; generally broken & rusty core, difficult to determine lithology.										
79.5	708.4	GREY GRANODIORITE Grey, medium grained; blue quartz; 70% mafics, 30% felsics, generally homogeneous.										
		79.5 - 82.5 Quartz - tourmaline veining mostly along CA; occupies 1/2 core width; 10% pyrite (chunks up to 1" wide); granodiorite is silicified & mineralized (5% pyrite).	2237	79.5	82.5	3.0	0.05					
		82.5 - 85.0 Random quartz veining; carbonate, trace pyrite.	2238	82.5	85.0	2.5	Tr					
		94.0 - 105.0 Rusty, weathered & broken core.										
		138.5 - 142.5	2239	138.5	142.5	4.0	0.01					
		138.5 - 139.2 Silicified granodiorite, 5% pyrite.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		139.2 Quartz vein at 90° to CA; 1/2" wide; chunk pyrite.										
		139.2 - 140.0 Granodiorite.										
		140.0 - 140.4 Quartz vein at 90° to CA; carbonate, 5% pyrite.										
		140.4 - 141.6 Silicified granodiorite, 2% pyrite.										
		141.6 - 141.7 Quartz vein at 90° to CA; carbonate, small (5mm) chunk pyrite.										
		141.7 - 142.5 Silicified granodiorite, 2% pyrite.										
		142.5 - 144.0	2240	142.5	144.0	1.5	0.02					
		142.5 - 143.8 Granodiorite, somewhat silicified 1% pyrite.										
		143.8 - 144.0 Quartz vein at 90° to CA; tourmaline, 5% pyrite.										
		144.0 - 145.0 Broken, rusty core.										
		150.5 - 151.5	2241	150.5	151.5	1.0	Tr					
		Quartz vein at 90° to CA at 151.2 (1/2" wide) tourmaline, 10mm chunk pyrite; rest of split is silicified granodiorite with 2-5% pyrite.										
		158.0 - 161.0	2242	158.0	161.0	3.0	0.02					
		158.4 - 158.6 Quartz vein at 90° to CA; tourmaline, trace pyrite.										
		Rest of split is granodiorite with 3-5% pyrite.										
		177.0 - 179.5	2243	177.0	179.5	2.5	Tr					
		178.8 Quartz vein (angle obscured by broken core) tourmaline; 1% pyrite; 2" wide.										
		Rest of split is granodiorite with 2% pyrite.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		187.0 - 192.0	2244	187.0	192.0	5.0	Tr					
		Granodiorite with silicified sections; some fine quartz & tourmaline veining with blebs pyrite; over all average 2% pyrite.										
		192.0 - 193.5	2245	192.0	193.5	1.5	Tr					
		Silicified granodiorite 2% pyrite.										
		193.5 - 194.5	2246	193.5	194.5	1.0	0.02					
		193.5 - 194.2 Quartz vein at 70° to CA; tourmaline, trace pyrite.										
		194.2 - 194.5 Silicified granodiorite, 2% pyrite.										
		194.5 - 195.5	2247	194.5	195.5	1.0	0.07					
		Quartz vein at 194.9 - 195.2 at 80° to CA; tourmaline, 5% chunks pyrite; rest of split is silicified granodiorite with 3-5% pyrite.										
		195.5 - 197.0	2248	195.5	197.0	1.5	Tr					
		Granodiorite; 3% pyrite.										
		197.0 - 199.5	2249	197.0	199.5	2.5	Tr					
		Granodiorite; 2% pyrite.										
		199.5 - 200.5	2250	199.5	200.5	1.0	0.03					
		Quartz vein at 199.7 - 199.9, 90° to CA; tourmaline; blebs pyrite at contacts. Rest of split is silicified granodiorite with tourmaline veinlet with blebs pyrite.										
		200.5 - 204.0	2946	200.5	204.0	3.5	0.06					
		Highly tourmalinized zone with some quartz & carbonate; 5% pyrite chunks.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		207.0 - 209.0	2947	207.0	209.0	2.0	Tr					
		Quartz vein at 207.5, 1/2" wide at 17° to CA, tourmaline, blebs (2%) pyrite.										
		Rest of split is mineralized grano. 2% pyrite.										
		209.0 - 211.0 Sheared granodiorite; fine grained; at 211.0 - broken core.										
		246.0 - 248.0 Ground core.										
		277.5 - 278.5	2948	277.5	278.5	1.0	Tr					
		Quartz vein at 277.7 - 277.9, 80° to CA; carbonate, barren; rest of split is silicified granodiorite with 1% pyrite.										
		283.0 - 284.0	2949	283.0	284.0	1.0	Tr					
		Silicified granodiorite; 3% pyrite.										
		284.0 - 285.0	2950	284.0	285.0	1.0	Tr					
		Quartz vein at 284.0 - 284.8, 90° to CA; barren; pyrite blebs at upper contact.										
		284.8 - 285.0 Tourmalinized granodiorite.										
		286.0 - 287.0 Silicified zone.										
		301.0 - 302.0 Silicified zone.										
		303.8 - 306.2	2351	303.8	306.2	2.4	Tr					
		Quartz vein ; 70° to CA; tourmaline, carbonate; barren.										
		306.2 - 307.2	2352	306.2	307.2	1.0	Tr					
		Granodiorite; 3-5% pyrite; silicified.										

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		307.2 - 309.2	2353	307.2	309.2	2.0	Tr					
		Quartz vein at 307.4 - 307.6, 90° to CA; 3% pyrite.										
		308.3 - 308.9 Random quartz vein; carbonate, barren.										
		Rest of split is granodiorite with trace pyrite.										
		309.2 - 310.3	2354	309.2	310.3	1.1	Tr					
		Silicified granodiorite & fine tourmaline veinlets with 3% pyrite.										
		321.0 - 323.0	2355	321.0	323.0	2.0	0.01					
		Quartz vein along CA and at 10° to CA; tourmaline; carbonate (orange alteration) trace pyrite.										
		323.6 - 325.2 Similar type of quartz-tourmaline veining along CA; barren.										
		354.0 Rusty zone; quartz vein; broken core.										
		355.0 - 356.0	2356	355.0	356.0	1.0	0.03					
		Tourmaline veinlet with blebs pyrite at 355.5; rest of split is granodiorite.										
		359.0 - 360.0	2357	359.0	360.0	1.0	0.04					
		Quartz vein at 90° to CA, 359.0 - 359.9; milky some tourmaline; barren.										
		372.0 Broken core.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		391.0 - 392.0	2358	391.0	392.0	1.0	0.24					
		391.0 - 391.6 Silicified granodiorite; 3-5% pyrite.										
		391.6 - 391.8 Quartz - tourmaline vein at 90° to CA; carbonate 25% pyrite-chunks.										
		391.8 - 392.0 Silicified granodiorite; 10% pyrite.										
		418.7 - 418.9 Tourmaline quartz vein along CA; barren.										
		428.0 - 429.0	2359	428.0	429.0	1.0	Tr					
		428.0 - 428.3 Silicified granodiorite, 1% pyrite.										
		428.3 - 428.4 Quartz vein at 60° to CA; broken core; 5% fine pyrite; tourmaline.										
		428.4 - 429.0 Silicified granodiorite, 3-5% pyrite.										
		429.0 - 437.0 Silicified zone.										
		443.5 - 445.0	2360	443.5	445.0	1.5	0.03					
		Quartz vein at 443.6 - 443.7; 80° to CA; barren.										
		443.7 - 444.4 Silicified granodiorite; 3-5% pyrite.										
		444.4 - 445.0 Tourmaline & quartz veining at 90° to CA, 10% pyrite.										
		450.0 - 452.0 Highly silicified; trace pyrite	2361	450.0	452.0	2.0	Tr					
		458.0 - 459.5	2362	458.0	459.5	1.5	0.02					
		Quartz vein at 15° to CA (458.4 - 459.5) tourmaline; 1% pyrite, rest of split is silicified granodiorite.										

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SONDAGE no:
HOLE no: MA-85-9

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		459.5 - 462.0	2363	459.5	462.0	2.5	0.01					
		Highly silicified granodiorite with 3-5% pyrite; quartz vein at 60° to CA (460.6 - 461.0)										
		trace pyrite.										
		460.0 - 461.0 1% pyrite in granodiorite.										
		471.0 - 472.0	2364	471.0	472.0	1.0	Tr					
		Silicified granodiorite, 1% pyrite with fine (10mm) quartz vein at 471.4 with blebs pyrite at 80° to CA.										
		474.5 - 475.5	2365	474.5	475.5	1.0	0.19					
		Quartz vein at 474.8 - 475.1, 90° to CA; tourmaline; 10% pyrite blebs at contacts; rest of split is silicified granodiorite with 2% pyrite.										
		478.5 - 481.0 Silicified granodiorite, 3-5% pyrite.	2366	478.5	481.0	2.5	Tr					
		500.5 - 501.5	2367	500.5	501.5	1.5	0.06					
		Quartz vein at 501.0 (2" wide) at random angles to CA; 1% fine pyrite; rest of split is silicified granodiorite with 1% pyrite.										
		500.0 Granodiorite silicified with 1-5% pyrite.										
		511.0 - 514.0 Silicified granodiorite with random quartz vein (10mm - 3" wide) 3-5% pyrite	2368	511.0	514.0	3.0	0.05					
		514.0 - 516.0 Same as above.	2369	514.0	516.0	2.0	0.01					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		516.0 - 517.0 Quartz vein at 516.8 (20mm wide) tourmaline, 5% blebs pyrite; rest of split is silicified granodiorite with 5% pyrite.	2370	516.0	517.0	1.0	0.02					
		517.0 - 518.0 Granodiorite, 1% pyrite.	2371	517.0	518.0	1.0	Tr					
		518.0 - 519.0 Tourmaline vein at (518.4-518.6) quartz, carbonate; 45° to CA, 5% pyrite; rest of split is silicified granodiorite with 1-3% pyrite.	2372	518.0	519.0	1.0	0.03					
		519.5 Rusty zone.										
		519.0 - 521.0 Silicified granodiorite with 1-3% pyrite; two barren quartz vein at 519.7-519.9 & 520.8 - 521.0 at 90° to CA.	2373	519.0	521.0	1.0	0.01					
		521.0 - 524.0 Silicified granodiorite, 1-3% pyrite; tourmaline veinlet with 1% pyrite at end of split.	2374	521.0	524.0	3.0	0.02					
		524.0 - 526.0 Tourmaline, quartz, carbonate at 80° to CA at lower contact; rusty, broken upper contact; 5% pyrite blebs.	2375	524.0	526.0	2.0	0.04					
		526.0 - 527.0 Silicified granodiorite, 1-3% pyrite.	2376	526.0	527.0	1.0	0.01					
		527.0 - 530.0 Tourmaline, quartz, carbonate, random angles 5% cubic & blebs pyrite.	2377	527.0	530.0	3.0	0.05					
		530.0 - 532.0 Tourmaline (less than previous split) quartz & carbonate veining; 3-5% pyrite.	2378	530.0	532.0	2.0	0.02					

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		532.0 - 533.0 Silicified granodiorite.										
		539.5 - 540.5 Random quartz vein & silicified granodiorite, 1-3% pyrite.	2379	539.5	540.5	1.0	0.08					
		547.0 Broken core.										
		549.0 - 550.0 Silicified granodiorite, 3-5% pyrite.	2380	549.0	550.0	1.0	Tr					
		550.0 - 553.0 Tourmaline, quartz & carbonate at random angles to CA; 10% blebs & chunks pyrite.	2381	550.0	553.0	3.0	0.05					
		553.0 - 554.5 Altered granodiorite, tourmaline, silicified; 3-5% pyrite.	2382	553.0	554.5	1.5	Tr					
		Barren quartz vein at : 562.2 - 562.4 - 23° to CA. 575.7 - 575.9 - 90° to CA. 576.8 - 577.0 - 30° to CA.										
		590.5 - 592.0 Tourmaline veining at 45° to CA trace pyrite, silicified granodiorite, quartz vein at 591.5 - 591.8 , 90° to CA, 1% pyrite blebs.	2383	590.5	592.0	1.5	Tr					
		592.0 - 593.5 Silicified granodiorite, 1-3% pyrite.	2384	592.0	593.5	1.5	0.01					
		604.0 - 606.0 Silicified granodiorite, pale color, tourmaline, quartz, 3-5% pyrite.	2385	604.0	606.0	2.0	Tr					

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		606.0 - 617.0 Highly chloritized, black color, fine grained, several (< 1%) pyrite cubes at upper contact.										
		618.5 - 619.5 Quartz vein at 618.8 - 619.4, cross-cutting but with some inderfingering, pyrite blebs at upper contact.	2386	618.5	619.5	1.0	Tr					
		Sections of basic dyke at 637.7 - 638.7; 639.8 - 640.0; 647.0 - 651.0; 651.4 - 652.0.										
		Granodiorite sheared at 35° to CA; 655.0 - 667.0 Broken core at 657.0, 667.0										
		Diorite at 674.0 - 677.0 mafic & fine grained. at 688.7 - 698.0 mafic & fine grained.										
		698.0 - 706.0 Quartz-tourmaline veining at random angles to CA; barren.										
		706.0 - 708.4 Dioritic phase, chloritized.										
708.4	904.7	PINK GRANODIORITE Similar in texture to previous unit but more pronounced pink feldspars.										
		720.2 - 721.0 Quartz-tourmaline veining; cross-cutting & interfingering; barren.										
		726.5 - 727.0 Vuggy quartz vein along CA; barren.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		759.0 - 765.0 Altered zone; fine grained, hematized; "cooked", 5% fine quartz & carbonate & tourmaline veinlets.										
		788.7 - 791.5 Basic dyke; dark green, fine grained.										
		812.0 - 818.5 Sheared granodiorite at 35° to CA.										
		818.5 - 820.0 Quartz vein at 20° to CA; tourmaline, carbonate trace fine pyrite.	2387	818.5	820.5	1.5	0.02					
		835.6 - 836.6 Altered zone; fine grained, hematized, "cooked".										
		837.0 - 840.0 Sheared granodiorite.										
		840.0 - 845.0 Altered zone similar to above.										
		852.0 - 860.0 Sheared granodiorite.										
		860.0 - 904.7 Sheared and altered granodiorite.										
		904.5 - 904.7 Quartz-tourmaline veining at contact with basic dyke at 30° to CA; 1% pyrite blebs.	2388	904.0	905.0	1.0	Tr					
904.7	916.0	BASIC DYKE Dark greenish black; fine grained lightly sheared at 28° to CA; 5% very fine carbonate veinlets.										
		911.0 - 913.0 Broken core. Quartz & carbonate veining at lower contact.										

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SONDAGE no:
HOLE no: MA-85-9

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
916.0	1006.0	GREY GRANODIORITE										
		As previously described.										
		916.0 - 926.0 Lightly sheared.										
		932.0 - 935.0 Sheared at 45° to CA.										
		936.6 - 936.8 Quartz vein at 80° to CA; barren.										
		937.1 - 937.6 Random quartz vein; orange carbonate alteration; barren.										
		940.0 - 949.0 Sheared granodiorite.										
		955.7 - 956.7 Quartz vein at 42° to CA; carbonate, tourmaline, 1% fine pyrite mostly in granodiorite inclusions.	2389	955.7	956.7	1.0	Tr					
		956.7 - 958.7 Random quartz vein, tourmaline; 1-3% pyrite, some fine grained, some cubic, mostly in granodiorite inclusions.	2390	956.7	958.7	2.0	Tr					
		958.7 - 960.7 Sheared & silicified granodiorite, 1% fine disseminated pyrite.	2391	958.7	960.7	2.0	Tr					
		960.7 - 964.0 Quartz vein at 45° to CA; carbonate, tourmaline, 1% fine pyrite, mostly in granodiorite inclusions.	2392	960.7	964.0	3.3	Tr					

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		964.0 - 969.0	2393	964.0	969.0	5.0	Tr					
		Highly silicified granodiorite - pale green in color; < 1% fine pyrite.										
		976.0 - 1006.0 Fairly homogeneous granodiorite.										
1006.0		END OF HOLE.										
		HOLE CEMENTED.										
		Core stored at Abitibi Resources, Val d'Or.										
		From this point the Tropari tests will no longer be taken as in the previous holes due to the very slight azimuth deviation.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-10A

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES			
LATITUDE: 14800 N	LONGITUDE: 7600 E		
ÉLÉVATION:	AZIMUTH: 360°	PROPRIÉTÉ / PROPERTY	Bevcon-Buffadison
			LOUVICOURT TWP. Range VII Lot 43
INCLINAISON/DIP: -85°	TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE	CLAIM NO:	CM 382
	CONTRACTOR : Forages J.P. Bérubé Inc.	SECTION:	76 + 00 E
LONGUEUR/LENGTH: 62'	DIMENSION DE LA CAROTTE/CORE SIZE: BQ	DÉCRIT PAR/LOGGED BY:	Diana L. Sullivan, B.Sc.
		DATE:	November 1985
OBJECTIF/PURPOSE:	SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL	COMMENCE/STARTED:	November 1985
		TERMINÉ/COMPLETED:	November 1985

TESTS

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au	Ag	Cu %	Zn %		
0	62.0	OVERBURDEN										
		HOLE ABANDONED IN 62' OVERBURDEN.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

SONDAGE No: / HOLE No: MA-85-10B

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14800 N LONGITUDE: 7600 E

PROPRIÉTÉ / PROPERTY Bevcon-Buffadison

ÉLÉVATION: AZIMUTH: 360° true north — MID CANADA JOINT VENTURE — Range VII Lot 43 Louvicourt Twp

INCLINAISON/DIP: -85° — TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE — CLAIM NO: CM 382

CONTRACTOR: Forage J.P. Bérubé Inc. — SECTION: 7600 E

LONGUEUR/LENGTH: 603.0 — DIMENSION DE LA CAROTTE/CORE SIZE: BQ — DECRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.

DATE: November 1985

OBJECTIF/PURPOSE: Intersect "A" & "D" veins — SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL — COMMENCE/STARTED: November 1985

TERMINÉ/COMPLETED: November 1985

TESTS Acid : 200' : -84 1/2° ; 400' : -85 1/2° ; 600' : -85 1/2°

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
0	145.0	OVERBURDEN										
145.0	187.0	MAFIC TUFF Dark greenish - grey fine grained; chloritized; quartz - carbonate veining; Boulder fragments at beginning of hole. 155.0 - 162.0 Silicified quartz carbonate along or at 10-15° to CA; trace fine pyrite. 162.0 - 163.5 Ground core. 177.0 - 184.7 Sheared at 15° to CA. 184.7 - 185.7 Shear zone → ground core.										
187.0	603.0	GREY GRANODIORITE Dark grey, medium grained; 60% mafic, 20% blue quartz, 20% felsics; homogeneous. 187.0 - 197.5 Highly sheared at 25° to CA.										
		205.1 - 205.4 Quartz vein at 90° to CA;barren	2396	205.0	206.0	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag oz/ton	Cu %	Zn %		
		224.8 - 226.2 Quartz vein at 90° to CA; tourmaline, rusty spots at upper contact; carbonate at lower contact.	2397	224.8	226.2	1.4	Tr					
		234.5 - 235.0 Quartz vein at 90° to CA; tourmaline last 2 1/2"; barren.	2398	234.0	235.0	1.0	Tr					
		247.0 - 247.5 Quartz vein at 90° to CA; sheared upper & lower contacts; barren.	2409	247.0	248.0	1.0	Tr					
		257.0 - 259.0 Quartz vein at 90° to CA; silicified granodiorite inclusions; tourmaline; flakes of silver mineral near upper contact.	2394	257.0	259.0	2.0	Tr	Tr				
		262.0 - 263.0 Silicified zone, two small (10mm - 30mm) quartz stringers; 1% pyrite in granodiorite.	2399	262.0	263.0	1.0	Tr					
		278.0 - 279.0 Quartz vein at 90° to CA; at 278.9 (1" wide) barren.	2400	278.0	279.0	1.0	Tr					
		266.5 Ground core.										
		380.0 - 401.0 Sheared at 25° to CA.										
		401.3 - 401.5 Quartz vein at 90° to CA; barren; sheared upper contact.	2401	401.0	402.0	1.0	Tr					
		416.6 - 417.6 Quartz vein at 80° to CA; tourmaline, sheared contacts, granodiorite inclusions, barren.	2402	416.0	417.6	1.6	Tr					

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag oz/ton	Cu %	Zn %	
		453.5 - 453.7 Quartz-tourmaline veining at 45° to CA; barren.	2403	453.0	454.0	1.0	Tr				
		456.0 - 457.2 Basic dyke, dark green; fine grained.	2404	456.0	457.0	1.0	Tr				
		456.0 - 457.0 Basic dyke; <1% pyrite.									
		457.0 - 458.0 Basic dyke to 457.2; rest of split is granodiorite with trace pyrite.	2405	457.0	458.0	1.0	Tr				
		458.0 - 459.0 Quartz vein at 90° to CA; 2, 10mm wide, quartz veins with trace fine pyrite.	2406	458.0	459.0	1.0	Tr				
		476.0 - 476.6 Quartz vein at 80° to CA; tourmaline , carbonate, barren.	2407	476.0	477.0	1.0	Tr				
		491.0 - 494.0 Sheared granodiorite.									
		527.0 - 532.0 Sheared granodiorite.									
		553.2 - 554.7 Quartz vein at 90° to CA; (553.9 - 554.2) tourmaline, barren; rest of split is silicified granodiorite with 1-3% disseminated pyrite.	2395	553.2	554.7	1.5	Tr				
		564.0 - 603.0 Sheared granodiorite.									
		576.5 - 577.5 Quartz vein at 45° to CA (576.7 - 577.1) carbonate; barren.	2408	576.5	577.5	1.0	Tr				
	603.0	END OF HOLE									
		HOLE CEMENTED									
		Core stored at Abitibi Resources, Val d'Or.									

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES	SONDAGE No:
LATITUDE: 14800 N LONGITUDE: 6600E	HOLE No: MA-85-11
ÉLÉVATION: AZIMUTH: 360° true North	PROPRIÉTÉ / PROPERTY: BEVCON-BUFFADISON
INCLINAISON/DIP: -80° TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE	LOUVICOURT TWP. Ragne VII Lot
CONTRACTOR: Forages J.P. Bérubé Inc.	CLAIM NO:
LONGUEUR/LENGTH: 837.0' DIMENSION DE LA CAROTTE/CORE SIZE: BQ	SECTION: 6600E
	DÉCRIT PAR/LOGGED BY: Diana L.Sullivan, B.Sc.
	DATE: December 1985
OBJECTIF/PURPOSE: Intersect new zones at depth. SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL	COMMENCE/STARTED: December 1985
	TERMINÉ/COMPLETED: December 1985

TESTS 200' : -78° ; 400' : -80 1/2° ; 600' : -81 1/2° ; 800' : -80 1/2°

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
0	128.0	OVERBURDEN										
128.0	214.7	GREY GRANODIORITE Dark grey, medium to coarse grained, 50% mafics, 30% quartz; 20% felsics; often sheared along CA, often rusty sections; trace fine pyrite.										
		128.0 - 139.0 Silicified, "bleached" core, pale in color, some fine quartz-tourmaline veining; barren.										
		128.0 - 133.0 Silicified granodiorite.	4063	128.0	133.0	5.0	Tr					
		133.0 - 138.0 Ditto.	4064	133.0	138.0	5.0	Tr					
		144.0 - 145.0 Rusty zone.										
		147.0 - 162.0 Sheared along CA.										
		158.0 - 160.0 Silicified, sheared grano.	4065	158.0	160.0	2.0	Tr					
		169.4 - 170.3 Rusty, weathered zone.										
		179.0 - 182.0 Sheared along CA										
		207.0 - 214.7 Sheared along CA.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
214.7	305.5	QUARTZ-FELDSPAR PORPHYRY										
		Dark grey matrix with 60% large (5mm) quartz & feldspar phenocrysts which are generally rounded; homogeneous.										
		214.7 - 217.0 Silicified zone at upper contact; trace fine pyrite.	4066	214.7	217.0	2.3	Tr					
		227.0 - 256.0 Feldspars pinkinsh in color and more angular.										
		257.0 - 258.0 Rusty zone.										
		259.0 - 262.5 Silicified, "bleached" zone with trace disseminated pyrite.	4067	259.0	262.5	3.5	Tr					
		267.0 - 305.0 Sheared at 30° to CA.										
		303.5 - 305.5 Silicified, "bleached" zone at lower contact, trace disseminated pyrite.	4068	303.5	305.5	2.0	Tr					
305.5	325.5	SHEARED GRANODIORITE Pale grey, medium grained, sheared at 35° to CA; barren.										
325.5	405.5	QUARTZ-FELDSPAR PORPHYRY As previously described.										

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		327.0 - 329.0 Silicified porphyry with random quartz vein from 328.0 - 328.8; fine pyrite associated with quartz vein; some tourmaline; rest of split contains trace fine pyrite.	4069	327.0	329.0	2.0	0.02					
		337.0 - 376.0 Pink angular phenocrysts.										
		376.0 - 381.3 Basic dyke; very dark grey with 40% small angular phenocrysts; lower contact at 35° to CA.										
		381.3 - 405.5 10% carbonate veining in porphyry.										
405.5	412.5	SHEARED-GRANODIORITE As previously described.										
		405.5 - 409.5 10% random fine quartz vein with trace pyrite in sheared, silicified granodiorite.	4070	405.5	409.5	4.0	Tr					
412.5	712.0	QUARTZ - FELDSPAR PORPHYRY As previously described.										
		424.3 - 424.5 Tourmaline vein - barren, porphyry lightly sheared at upper contact.										
		445.0 - 455.0 Silicified porphyry; trace pyrite.										
		460.0 - 472.0 Silicified porphyry, trace pyrite.										
		464.5 - 465.5 Quartz vein at 80° to CA (465.0 - 465.2) tourmaline, trace pyrite.	4071	464.5	465.5	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		469.5 - 470.5 Quartz vein at 80° to CA (469.7 - 470.1) tourmaline, barren; porphyry has 5% disseminated pyrite.	4072	469.5	470.5	1.0	Tr					
		487.0 - 488.0 Fine quartz-tourmaline veining at 20° to CA; barren.										
		505.0 - 510.0 Silicified porphyry.										
		507.0 - 508.0 Quartz vein at 70° to CA (507.7-507.8) trace pyrite; porphyry has trace pyrite.	4073	507.0	508.0	1.0	Tr					
		519.5 - 520.5 Silicified zone due to rusty quartz vein at 519.7 (1" wide) with tourmaline, barren.	4074	519.5	520.5	1.0	Tr					
		526.0 - 527.0 Quartz vein at 50° to CA (526.1 - 526.3) vuggy, tourmaline, barren.	4075	526.0	527.0	1.0	Tr					
		532.0 - 537.0 20% small (2" or less) quartz vein at random angles to CA, barren.	4076	532.0	537.0	5.0	Tr					
		544.0 - 545.0 Quartz vein at 80° to CA (544.2 - 544.3) barren; barren silicified porphyry.	4077	544.0	545.0	1.0	Tr					
		570.0 - 573.0 20% fine quartz vein (< 1") with blebs pyrite at 70° to CA; porphyry has trace pyrite.	4078	570.0	573.0	3.0	Tr					
		580.0 - 581.0 Quartz vein at 90° to CA (580.3-580.9) sericitized porphyry; barren.	4079	580.0	581.0	1.0	Tr					
		606.0 - 607.0 Sheared granodiorite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		607.0 - 647.0 Pink phenocrysts.										
		610.0 - 613.0 Sheared granodiorite.										
		692.0 - 696.0 Basic dyke; dark greenish-grey, fine grained; upper contact at 17° to CA.										
712.0	837.0	GREY GRANODIORITE Dark grey, medium grained; fairly homogeneous; upper contact at 35° to CA.										
		712.0 - 714.0 Sheared granodiorite (at 35° to CA).										
		768.0 - 769.5 Quartz vein at 23° to CA (∠1" wide) at 769.0, tourmaline, 5% pyrite blebs, granodiorite sheared on either side.	4080	768.5	769.5	1.0	Tr					
		815.5 - 816,5 Sheared granodiorite.										
837.0		END OF HOLE										
		Core stored at Abitibi Resources, Val d'Or.										
		This hole was planned to a depth of 2000' to intersect new veins but the zones intersected to this depth were not favourable so it was considered counter-productive to continue.										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 Août 1986
VAL D'OR
MINES

RESSOURCES ABITIBI RESOURCES LTÉE LTD

JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-12

PROPRIÉTÉ / PROPERTY: Bevcon-Buffadison

Louvicourt Township Range VII Lot 43

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14600 N LONGITUDE: 7800 E

ÉLÉVATION: AZIMUTH: 180°

INCLINAISON/DIP: -85°

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR : Forages J.P. Bérubé Inc.

LONGUEUR/LENGTH: 1167.0'

DIMENSION DE LA CAROTTE/CORE SIZE: BQ

CLAIM NO: CM 382

SECTION: 7800

DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.

DATE: November 1985

OBJECTIF/PURPOSE: Intersect New veins

SYSTEME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

COMMENCE/STARTED: November 1985

TERMINÉ/COMPLETED: November 1985

TESTS 200' :-75° ; 400' : -75° ; 600' : -72 1/2° ; 800' : -71° ; 1000' : -66° ; 1167' : -65°

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	91.0	OVERBURDEN										
91.0	1167.0	GREY GRANODIORITE Pale grey, blue quartz 30% , felsics 20%, mafics 50%; medium grained; homogeneous.										
		95.8 - 96.8 Quartz vein at 90° to CA (96.0-96.3) tourmaline, carbonate, rusty at lower contact; rest of split is silicified granodiorite with trace pyrite.	2410	95.8	96.8	1.0	Tr					
		96.8 - 97.8 Quartz vein at 90° to CA (97.3-97.5) carbonate, tourmaline, pyrite blebs at upper contact, rest of split is silicified granodiorite with 1% pyrite.	2411	96.8	97.8	1.0	Tr					
		101.3 - 102.3 Quartz vein at 50° to CA (101.5 - 101.9) tourmaline, carbonate, 1% pyrite blebs; rest of split is silicified granodiorite with<1% pyrite.	2412	101.3	102.3	1.0	0.09					
		102.3 - 103.3 Silicified granodiorite with fine tourmaline veinlets <1% pyrite.	2413	102.3	103.3	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
						(ft)						
		103.3 - 105.3	2414	103.3	105.3	2.0	Tr					
		Silicified granodiorite with < 1% quartz										
		veinlets & < 1% pyrite.										
		108.7 - 110.3	2415	108.7	110.3	1.6	0.01					
		Silicified & tourmalinized granodiorite with										
		1-3% pyrite, 10mm quartz vein at 80° to CA										
		at 109.3.										
		110.3 - 112.3	2416	110.3	112.3	2.0	Tr					
		Silicified granodiorite, 1% pyrite.										
		112.3 - 115.0	2417	112.3	115.0	2.7	Tr					
		Same as # 2416.										
	***	115.0 - 117.0	2418	115.0	117.0	2.0	0.14					
		Quartz - tourmaline veining (115.0 - 115.8) at										
		random angles to CA; rest of split is tourma-										
		linized & silicified granodiorite with 1%								0.32/4.0' cut		
		pyrite.										
		117.0 - 118.0	2419	117.0	118.0	1.0	0.01					
		Silicified & tourmalinized granodiorite; 1%										
		pyrite.										
	***	118.0 - 119.0	2420	118.0	119.0	1.0	1.43					
		Quartz vein + tourmaline at random angles to										
		CA; 20% pyrite chunks.										
		119.0 - 120.0	2421	119.0	120.0	1.0	0.01					
		Same as sample # 2419.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		120.0 - 122.0	2422	120.0	122.0	2.0	Tr					
		Granodiorite.										
		122.0 - 124.0	2423	122.0	124.0	2.0	Tr					
		Granodiorite, trace pyrite, quartz vein (15mm) at 123.6										
		124.0 - 126.0	2424	124.0	126.0	2.0	Tr					
		Granodiorite, 1% disseminated pyrite; quartz vein at 35° to CA (15mm wide at 125.1).										
		126.0 - 127.0	2425	126.0	127.0	1.0	0.01					
		Silicified granodiorite 1% pyrite, some in fine veinlets, quartz vein at 126.5 at 25° to CA; 20mm wide; barren.										
		127.0 - 129.3	2426	127.0	129.3	2.3	0.02					
		Quartz vein at 45° to CA (127.9 - 128.7) chunks pyrite at lower contact; tourmaline.										
		128.7 - 129.0 1-3% pyrite; quartz vein (129.0 - 129.1) at 90° to CA; blebs pyrite at contacts rest of split is silicified granodiorite with 1% pyrite.										
		129.3 - 130.3	2427	129.3	130.3	1.0	0.03					
		Silicified granodiorite, 1-3% pyrite, some cubic. Quartz vein at 70° to CA at 123.8 (1" wide) trace pyrite, tourmaline.										
		133.5 - 134.5	2428	133.5	134.5	1.0	Tr					
		Quartz vein at 45° to CA (140.0 - 140.2) trace pyrite; rest of split is silicified granodiorite with 3% pyrite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		134.5 - 136.0 Ground Core.										
		136.0 - 162.0 Diorite composition; chloritized, sheared at 32° to CA.										
		136.5 - 137.5										
		137.0 - 139.5 Sheared & altered granodiorite, 1-3% disseminated pyrite.	2429	137.0	139.5	2.5	Tr					
		139.5 - 144.5 Sheared granodiorite, 3-5% pyrite.	2430	139.5	144.5	5.0	0.01					
		144.5 - 146.0 Same as above.	2431	144.5	146.0	1.5	Tr					
		165.0 - 168.5 Granodiorite, 1% pyrite cubes.	2432	165.0	168.5	2.5	Tr					
		170.8 - 172.8 Sheared granodiorite, 1% pyrite.	2433	170.8	172.8	2.0	Tr					
		189.0 - 191.0 Altered granodiorite, 20% small (20mm or less) quartz vein at random angles to CA; 1% pyrite locally.	2434	189.0	191.0	2.0	Tr					
		213.4 - 214.4 40% quartz vein at 40° to CA (5mm-30mm) tourmaline, barren.	2435	213.4	214.4	1.0	Tr					
		232.0 - 233.0 Granodiorite, fine tourmaline veinlets with pyrite blebs along CA.	2436	232.0	233.0	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
	***	233.0 - 234.0	2437	233.0	234.0	1.0	0.08					
		Quartz vein at 90° to CA (lower contact).										
		233.4-233.8; tourmaline, blebs pyrite at										
		contacts, rest of split is silicified grano-						0.10 /	2.0'			
		diorite with 1% pyrite.										
	***	234.0 - 235.0	2438	234.0	235.0	1.0	0.13					
		Quartz vein at 40° to CA at 234.5, 15mm wide;										
		chunks pyrite (50%); quartz vein at 234.7 at										
		40° to CA; blebs pyrite at contacts; rest of										
		split is silicified granodiorite.										
		235.0 - 236.0	2439	235.0	236.0	1.0	Tr					
		Granodiorite, 1% pyrite.										
		236.0 - 239.5	2440	236.0	239.5	3.5	Tr					
		same as above but with three 5mm wide quartz										
		veins at 45° to CA - 70° to CA.										
		241.5 - 242.5	2441	241.5	242.5	1.0	Tr					
		Granodiorite, 3% pyrite.										
		245.0 - 246.0	2442	245.0	246.0	1.0	0.01					
		Quartz vein at 90° to CA (245.0 - 245.2),										
		Tourmaline, pyrite blebs at contacts.										
		252.0 - 254.5	2443	252.0	254.5	2.5	Tr					
		Quartz vein (3 small, 10mm or less) at 80° to										
		CA; trace pyrite; granodiorite <1% pyrite.										
		265.5 - 266.5	2444	265.5	266.5	1.0	0.05					
		Quartz vein at 80° to CA (265.8 - 266.0)										
		tourmaline, 5% pyrite; silicified granodiorite										
		has 1% pyrite.										

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		272.2 - 273.3	2445	272.2	272.3	1.1	Tr					
		Quartz vein at 22° to CA (272.8 - 273.2) tourmaline, barren; trace pyrite in granodiorite.										
		305.3 - 306.7 Basic dyke; green, fine grained; lower contact at 80° to CA.										
		308.0 - 309.0	2446	308.0	309.0	1.0	Tr					
		Quartz vein (308.2 - 308.5) at 90° to CA; tourmaline, trace pyrite; rest of split is granodiorite.										
		312.7 - 315.1 Basic dyke as previously described, rusty lower contact.										
		315.0 - 317.0	2447	315.0	317.0	2.0	Tr					
		Granodiorite. 1% pyrite.										
		317.0 - 318.0	2448	317.0	318.0	1.0	0.01					
		As above but rusty.										
		331.3 - 333.4 Basic dyke as above. Quartz vein at 332.5 barren (25mm wide).										
		343.2 - 344.2	2449	343.2	344.2	1.0	Tr					
		Quartz vein at 80° to CA (343.6, 1" wide), tourmaline, barren; rest of split is granodiorite with trace pyrite.										
		348.8 - 350.5	2450	348.8	350.5	1.7	Tr					
		Quartz vein at 45° to CA (348.9 - 349.3) tourmaline, barren; quartz vein at 80° to CA (350.0-350.2) barren; rest of split is granodiorite, silicified.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		364.0 - 365.0 Silicified granodiorite, hematite, trace pyrite.	2451	364.0	365.5	1.5	Tr					
		366.0 - 368.0 Silicified granodiorite.										
		377.5 - 379.5 20% quartz stringers (10mm wide or less) at steep angles to CA, trace pyrite.	2452	377.5	379.5	2.0	Tr					
		381.0 - 382.0 Same as sample #2452	2453	381.0	382.0	1.0	Tr					
		388.3 - 390.3 30% quartz veinlets (10-20mm wide) at random angles to CA; pyrite blebs at contacts, rest of split is granodiorite with 1% pyrite; some cubic.	2454	388.3	390.3	2.0	Tr					
		396.5 - 397.5 Quartz vein at 50° to CA (396.9 - 397.3) rusty; rest of split is granodiorite with 1% pyrite.	2455	396.5	397.5	1.0	Tr					
		397.5 - 399.5 Altered granodiorite, 1% pyrite.	2456	397.5	399.5	2.0	Tr					
		399.5 - 400.5 Quartz vein at 90° to CA (399.6 - 399.8) tourmaline, pyrite blebs at contacts; rest of split is granodiorite with 1% pyrite.	2457	399.5	400.5	1.0	0.01					
		407.7 - 408.7 Quartz vein at 80° to CA (408.0 - 408.1) tourmaline, barren; rest of split is silicified granodiorite with 1% pyrite.	2458	407.7	408.7	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		415.0 - 417.5	2459	415.0	417.5	2.0	0.01					
		Random quartz (60%) with 1% fine pyrite; sheared upper contact with 3% pyrite.										
		427.0 - 432.0 Silicified granodiorite.										
		437.0 - 438.0	2460	437.0	438.0	1.0	0.03					
		Quartz vein at 80° to CA (437.8 - 437.9) bleb pyrite at lower contact; rest of split is granodiorite.										
		444.0 - 447.0	2461	444.0	447.0	3.0	Tr					
		Granodiorite with 10% fine tourmaline veinlets carrying pyrite blebs.										
		451.0 - 452.0	2462	451.0	452.0	1.0	Tr					
		Quartz vein at 90° to CA (451.0 - 451.2); barren; rest of split is granodiorite with 1% pyrite.										
		455.5 - 457.0	2463	455.5	457.0	1.5	0.01					
		Quartz vein at 80° to CA (456.0, 10mm wide) tourmaline, large blebs pyrite; rest of split is granodiorite with 1% pyrite.										
		457.0 - 458.0	2464	457.0	458.0	1.0	Tr					
		Silicified granodiorite, 3-5% pyrite; fine quartz vein at 457.9 (10mm) pyrite & silver mineral.										
		458.0 - 459.0	2465	458.0	459.0	1.0	Tr					
		Granodiorite 1% pyrite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		459.0 - 460.0	2466	459.0	460.0	1.0	Tr					
		Quartz vein at 70° to CA (459.5 - 459.8) carbonate, tourmaline, pyrite blebs; rest of split is silicified granodiorite with 1% pyrite.										
		474.5 - 476.0	2467	474.5	476.0	1.5	Tr					
		Quartz vein at 45° to CA (474.9 - 475.6) tourmaline, carbonate, 1% pyrite, rest is silicified granodiorite with 1% pyrite.										
		476.0 - 478.0	2468	476.0	478.0	2.0	Tr					
		Silicified granodiorite, 1% pyrite, two small (10mm) quartz veinlets.										
		480.0 - 481.0	2469	480.0	481.0	1.0	Tr					
		Silicified granodiorite, 3% pyrite.										
		486.5 - 487.5	2470	486.5	487.5	1.0	0.02					
		Quartz vein at 90° to CA (487.1 - 487.2), 20% pyrite in large blebs; rest of split is silicified granodiorite with 1% pyrite.										
		493.0 - 494.5	2471	493.0	494.5	1.5	0.07					
		Quartz vein at 80° to CA (493.4 - 493.7) tourmaline, barren; rest of split is granodiorite with 5% pyrite.										
		496.0 - 497.0	2472	496.0	497.0	1.0	0.01					
		Quartz vein at 496.2 (20mm wide) at 80° to CA, large chunk pyrite (5mm) rest of split is granodiorite with 1% pyrite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		497.0 - 498.0	2473	497.0	498.0	1.0	Tr					
		Granodiorite < 1% pyrite.										
		498.0 - 499.0	2474	498.0	499.0	1.0	0.02					
		Quartz vein at 70° to CA (498.7 - 498.9) tourmaline, carbonate, barren; rest of split is granodiorite with 1-3% pyrite.										
		499.0 - 500.0	2475	499.0	500.0	1.0	0.02					
		Silicified granodiorite, 5% pyrite.										
		500.0 - 501.0	2476	500.0	501.0	1.0	0.01					
		Quartz vein at 80° to CA (500.0 - 500.6) tourmaline, barren; rest of split is silicified granodiorite with 1-5% pyrite.										
		515.0 - 516.0	2477	515.0	516.0	1.0	Tr					
		Silicified granodiorite, 3-5% pyrite, two small (10-20mm) quartz veins at 80° to CA, blebs pyrite.										
		516.0 - 517.0	2478	516.0	517.0	1.0	0.01					
		Silicified granodiorite, 5% pyrite.										
		525.7 - 527.7	2479	525.7	527.7	2.0	Tr					
		Silicified patches granodiorite (30% of split) with large (15mm or less) blebs pyrite.										
		533.5 - 534.5	2480	533.5	534.5	1.0	Tr					
		Quartz vein at 70° to CA (533.8 - 534.2) 5% large blebs pyrite, tourmaline, rest of split is silicified granodiorite with 1-3% pyrite.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

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HOLE no: MA-85-12
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		551.0 - 552.0	2481	551.0	552.0	1.0	Tr					
		Quartz vein at 90° to CA (551.1 - 551.4) tourmaline, barren; rest of split is silicified granodiorite with 1% pyrite.										
		552.0 - 553.0	2482	552.0	553.0	1.0	Tr					
		Granodiorite, 1% pyrite.										
		553.0 - 554.0	2483	553.0	554.0	1.0	Tr					
		Quartz vein at 553.1 - 553.3 at 80° to CA, blebs pyrite at contacts.										
		560.0 - 562.0 Mafic inclusion - basic dyke ?										
		562.3 - 563.3	2484	562.3	563.3	1.0	Tr					
		Quartz vein at 37° to CA (562.7 - 562.9) bleb pyrite.										
		563.3 - 564.3	2485	563.3	564.3	1.0	Tr					
		Granodiorite with barren carbonate - quartz vein at 564.0 (10mm)										
		564.3 - 565.3	2486	561.3	565.3	1.0	Tr					
		Quartz vein at 35° to CA (564.7 - 564.9) barren; rest of split is granodiorite.										
		572.0 - 573.0	2487	572.0	573.0	1.0	Tr					
		Silicified granodiorite, 5% pyrite.										
		573.0 - 574.0	2488	573.0	574.0	1.0	Tr					
		Quartz vein at 573.6 - 573.9 at 40° to CA; tourmaline, 1-3% pyrite; rest of split is granodiorite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		577.0 - 597.0 Pink granodiorite.									
		604.0 - 613.0 Basic dyke, dark green (chloritized) fine grained (diorite ?)									
		606.0 - 608.0 30% quartz - carbonate veining at 20-40° to CA; barren, rest of split is diorite.	2489	606.6	608.0	1.4	Tr				
		612.0 - 613.0 Quartz-tourmaline at 612.4 - 612.5 at 80° to CA; barren; rest of split is diorite.	2490	612.0	613.0	1.0	Tr				
		614.0 - 615.0 Quartz-tourmaline at random angles to CA (mostly along CA), barren; granodiorite inclusions.	2491	614.0	615.0	1.0	Tr				
		616.5 - 617.5 30% quartz veins (5mm - 10mm wide) at random angles to CA; carbonate, tourmaline, barren.	2492	616.5	617.5	1.0	Tr				
		617.5 - 618.5 Quartz vein, tourmaline at 47° to CA, (618.3 - 618.5); barren, rest of split is granodiorite.	2493	617.5	618.5	1.0	Tr				
		618.5 - 619.5 Quartz vein at 70° to CA (619.4 - 619.5); dioritic margins, barren, rest of split is granodiorite.	2494	618.5	619.5	1.0	Tr				
		624.0 - 633.0 Diorite.									

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		633.0 - 634.0	2495	633.0	634.0	1.0	Tr					
		20% quartz veins at 45° to CA, tourmaline, trace pyrite; rest of split is granodiorite.										
		635.0 - 643.0 Diorite.										
		648.3 - 649.3	2496	648.3	649.3	1.0	Tr					
		Quartz vein at 45° to CA (648.5 - 648.9) tourmaline, carbonate, barren, highly silicified granodiorite with hematite for rest of split.										
		649.3 - 650.3	2497	649.3	650.3	1.0	Tr					
		Highly altered (silicified, hematized) granodiorite with 10mm quartz & tourmaline at 649.9 at 65° to CA.										
		693.0 - 697.0 Silicified granodiorite.										
		717.0 - 718.0	2498	717.0	718.0	1.0	Tr					
		Quartz vein at 45° to CA (617.5 - 617.8); tourmaline, barren; rest of split is silicified granodiorite.										
		743.0 - 750.0 Sheared granodiorite at 30° to CA.										
		757.0 - 776.7 Same as above										
		776.7 - 779.8	2499	776.7	779.8	3.1	Tr					
		Quartz vein at 30° to CA; carbonate, tourmaline, trace fine pyrite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		779.8 - 781.0	2500	779.8	781.0	1.2	0.01					
		Silicified granodiorite, 1-3% pyrite.										
		781.0 - 787.0 Silicified granodiorite.										
		787.0 - 789.0	2651	787.0	789.0	2.0	Tr					
		40% quartz-carbonate veining 45° - 80° to CA, 1-3% pyrite, rest is silicified granodiorite.										
		789.0 - 791.0	2652	789.0	791.0	2.0	Tr					
		Similar to #2651.										
		791.0 - 793.0	2653	791.0	793.0	2.0	0.01					
		Similar to #2651.										
		793.0 - 795.0	2654	793.0	795.0	2.0	Tr					
		Silicified granodiorite with small (20mm) quartz vein at 794.6, barren; 1% pyrite in granodiorite.										
		799.0 - 800.0	2655	799.0	800.0	1.0	Tr					
		Silicified granodiorite with quartz-carbonate vein at 799.5 - 799.7 at 55° to CA; barren, trace pyrite in granodiorite.										
		801.0 End of silicified zone.										
		813.0 - 814.0	2656	813.0	814.0	1.0	Tr					
		Random quartz vein (813.3 - 813.6) several blebs pyrite, rest of split is granodiorite.										
		817.3 - 818.7	2657	817.3	818.7	1.4	Tr					
		Quartz-carbonate veining in sheared granodiorite at 25° to CA ;barren.										

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SONDAGE no:
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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		818.7 - 822.0	2658	818.7	822.0	3.3	Tr					
		Silicified granodiorite with random quartz & carbonate veinlets, trace fine pyrite.										
		840.0 - 841.0	2659	840.0	841.0	1.0	Tr					
		30% fine quartz vein with up to 1% pyrite at steep angles to CA; (5-10mm wide); rest of split is silicified granodiorite.										
		841.0 - 842.0	2660	841.0	842.0	1.0	Tr					
		Granodiorite, trace pyrite.										
		842.0 - 843.0	2661	842.0	843.0	1.0	Tr					
		Granodiorite with 5% quartz-carbonate veining with 1% pyrite at steep angles to CA, (< 5mm wide).										
		843.0 - 844.0	2662	843.0	844.0	1.0	Tr					
		Similar to # 2661.										
		844.0 - 845.0	2663	844.0	845.0	1.0	Tr					
		Granodiorite.										
		845.0 - 846.0	2664	845.0	846.0	1.0	Tr					
		Quartz vein at 90° to CA (845.1 - 845.3) tourmaline, barren; rest of split is granodiorite.										
		846.0 - 847.0	2665	846.0	847.0	1.0	Tr					
		15% quartz vein at 80° to CA; several blebs pyrite; rest is silicified granodiorite with trace pyrite.										

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		847.0 - 848.5	2666	847.0	848.5	1.5	Tr				
		Granodiorite.									
		848.5 - 850.0	2667	848.5	850.0	1.5	Tr				
		Quartz vein at 30° to CA (849.0 - 849.7) tourmaline, barren.									
		850.0 - 853.0	2668	850.0	853.0	3.0	Tr				
		Granodiorite; trace pyrite in fine carbonate, quartz veinlets (< 5mm).									
		853.0 - 854.0	2669	853.0	854.0	1.0	Tr				
		Quartz vein at 90° to CA (853.2 - 853.4) barren; rest of split is granodiorite.									
		854.0 - 855.7	2670	854.0	855.7	1.7	Tr				
		Granodiorite.									
		855.7 - 856.8	2671	855.7	856.8	1.1	Tr				
		Quartz, tourmaline vein at 90° to CA (855.7-855.9) barren; rest of split is silicified granodiorite with tourmaline veinlets.									
		856.8 - 858.2	2672	856.8	858.2	1.4	Tr				
		Quartz vein at 90° to CA (857.4 - 857.8, 858.0-858.2) tourmaline, trace pyrite, pyrite bleb at 857.2, rest of split is granodiorite.									
		858.2 - 860.5	2673	858.2	860.5	2.3	Tr				
		20% quartz veins at 80° to CA, (20mm wide or less) tourmaline, carbonate, barren; rest of split is granodiorite.									
		860.5 - 873.0 Sheared granodiorite.									

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		873.2 - 874.2	2674	873.2	874.2	1.0	Tr					
		Quartz-tourmaline veining at 50° to CA (873.3-873.7) tourmaline, trace pyrite; rest of split is granodiorite.										
		874.2 - 878.0 Sheared granodiorite.										
		909.0 - 910.0	2675	909.0	910.0	1.0	Tr					
		Quartz vein at 90° to CA (909.3 - 909.5). Tourmaline: barren; rest of split is granodiorite.										
		914.0 - 915.0	2676	914.0	915.0	1.0	Tr					
		Sheared granodiorite wity several quartz-carbonate stringers.										
		917.4 - 919.0	2677	917.4	919.0	1.6	Tr					
		Quartz vein at 27° to CA; tourmaline, carbonate trace pyrite.										
		919.0 - 921.0 Sheared granodiorite.										
		923.5 - 924.8	2678	923.5	924.8	1.3	Tr					
		40% quartz-carbonate, veinlets at 90° to CA; 10-20mm wide - barren.										
		936.8 - 939.3	2679	936.8	939.3	2.5	0.10					
		Quartz vein at 45° to CA; tourmaline, granodiorite inclusions, < 1% pyrite; carbonate.										
		939.3 - 995.0 Sheared granodiorite.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		953.0 - 954.0	2680	953.0	954.0	1.0	Tr					
		Sheared granodiorite with quartz-carbonate vein at 953.4 - 953.5 at 43° to CA; barren.										
		957.0 - 958.0	2681	957.0	958.0	1.0	Tr					
		Sheared granodiorite with quartz, carbonate vein at 957.6 - 957.7 at 25° to CA; barren.										
		967.0 - 968.4	2682	967.0	968.4	1.4	Tr					
		Quartz vein at 25° to CA; carbonate, tourmaline, trace fine pyrite.										
		995.0 - 996.5	2683	995.0	996.5	1.5	Tr					
		Sericitized zone, highly sheared, epidotized, 10-15% quartz, carbonate & tourmaline veining, trace pyrite.										
		997.0 - 998.0 Highly sheared & sericitized zone.										
		998.0 - 1016.0 Quartz-feldspar porphyry, pale to dark grey, medium size (5mm or less) phenocrysts, homogeneous, 10% quartz-carbonate veins.										
		1006.0 - 1029.0 Basic dyke, dark grey, fine grained, sheared, 30% quartz-carbonate veinlets.										
		1028.0 - 1029.0	2684	1028.0	1029.0	1.0	0.02					
		40° quartz veining, 1% pyrite lower contact at 43° to CA.										
		1045.0 - 1046.0	2685	1045.0	1046.0	1.0	Tr					
		Quartz vein at 15° to CA, 1" wide. (1045.0 - 1045.7) carbonate, tourmaline; barren.										

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		1049.0 - 1050.5	2686	1049.0	1050.5	1.5	Tr					
		50% random quartz-tourmaline veining, barren.										
		1060.7 - 1061.3 Basic dyke as previously described										
		1069.0 - 1073.0 Dark, chloritized granodiorite.										
		1078.0 - 1079.0	2687	1078.0	1079.0	1.0	Tr					
		Quartz vein at 90° to CA (1078.3, 20mm wide) chunk pyrite; rest of split is granodiorite.										
		1089.2 - 1090.2	2688	1089.2	1090.2	1.0	Tr					
		Random quartz veining (60%), tourmaline, barren rest of split is granodiorite.										
		1093.4 - 1095.0	2689	1093.4	1095.0	1.6	Tr					
		Granodiorite with 20% quartz veins at steep angle to CA (2" or less in width); barren.										
		1095.0 - 1096.0	2690	1095.0	1096.0	1.0	Tr					
		60% random quartz & tourmaline, barren, rest of split is granodiorite.										
		1105.7 - 1106.7	2691	1105.7	1106.7	1.0	Tr					
		Quartz vein at 90° to CA (1105.7 - 1106.0), barren; rest of split is granodiorite with 2 small (< 10mm) quartz veins at 90° to CA.										
		1108.0 - 1109.0	2692	1108.0	1109.0	1.0	Tr					
		50% quartz-tourmaline veining at 70°-80° to CA barren; rest of split is barren granodiorite.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		1123.6 - 1124.6	2693	1123.6	1124.6	1.0	Tr				
		Quartz-tourmaline vein at 90° to CA (1123.7 - 1124.5); barren.									
		1141.0 - 1142.0 Sheared granodiorite.									
		1146.0 - 1151.5 Sheared granodiorite.									
		1161.0 - 1162.0	2694	1161.0	1162.0	1.0	Tr				
		20% quartz-carbonate veining at random angles to CA, trace pyrite, rest of split is granodiorite.									
1167.0		END OF HOLE									
		HOLE CEMENTED.									
		Core stored at Abitibi Resources, Val d'Or.									

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOUT 1986
VAL D'OR MINES

RESSOURCES ABITIBI RESOURCES LTÉE LTD

JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-13

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14725 N LONGITUDE: 7800 E
ÉLÉVATION: AZIMUTH: 360°
INCLINAISON/DIP: -80°
LONGUEUR/LENGTH: 604.0'

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé Inc.
DIMENSION DE LA CAROTTE/CORE SIZE: BQ

PROPRIETE / PROPERTY: Bevcon-Buffadison
Louvicourt Twp. Range VII Lot 43
CLAIM NO: CM 382
SECTION: 7800 E
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
DATE: November 1985
COMMENCE/STARTED: November 1985
TERMINÉ/COMPLETED: November 1985

OBJECTIF/PURPOSE: Intersect E & D veins
SYSTEME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 200' : -87° ; 400' : -87° ; 600' : -81 1/2°

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
0	123.0	OVERBURDEN										
123.0	257.0	SHEARED GREY GRANODIORITE										
		Dark bluish grey; 60% mafics, 20% blue quartz,										
		20% felsics, sheared at 15° to CA.										
		123.0 - 132.0 Weathered, rusty core.										
		124.6 - 126.6	2851	124.6	126.6	2.0	Tr					
		40% quartz vein at 90° to CA; 1" - 2" wide;										
		tourmaline, trace pyrite, rest of split is										
		weathered granodiorite.										
		157.0 - 167.0 Weathered, rusty core.										
		168.0 - 169.0	2852	168.0	169.0	1.0	Tr					
		Quartz vein (168.3-168.7) contacts obscured										
		by broken core; barren; rest of split is										
		sheared barren granodiorite.										
		184.2 - 185.4	2853	184.2	185.4	1.2	Tr					
		30% fine (10mm or less) rusty quartz veins at										
		low angles to CA in sheared granodiorite.										
		190.0 - 191.0	2854	190.0	191.0	1.0	Tr					
		30% rusty quartz veins at 90° to CA (1" or										
		less) with trace pyrite in sheared granodiorite.										

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SONDAGE no:
HOLE no: MA-85-13
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %	
		200.5 - 201.5	2855	200.5	201.5	1.0	Tr				
		Quartz vein at 90° to CA (200.7-200.9) tourmaline, rusty, barren; rest of split is barren granodiorite.									
		211.0 - 212.0	2856	211.0	212.0	1.0	Tr				
		30% quartz veins (1" wide or less) at steep angles to CA; rusty weathered, trace pyrite; rest of split is sheared & rusty granodiorite.									
		239.5 - 242.5	2857	239.5	242.5	3.0	Tr				
		Altered granodiorite with 30% quartz-tourmaline & carbonate along half core width, trace pyrite									
257.0	313.0	GREY GRANODIORITE									
		Similar to previous unit except more massive i.e. shearing not as intense.									
		261.5 - 262.8 Basic dyke, dark green, fine grained, sheared, upper contact at 40° to CA.									
		288.5 - 289.5	2858	288.5	289.5	1.0	Tr				
		30% quartz veins at steep angles to CA, quartz vein (10mm wide or less) tourmaline, carbonate, chlorite; rest of split is barren granodiorite.									
		289.5 - 290.8	2859	289.5	290.8	1.4	Tr				
		Granodiorite - barren.									
		290.8 - 291.8	2860	290.8	291.8	1.0	Tr				
		Quartz vein at 291.0 - 291.2 at 30° to CA; tourmaline, barren.									

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
313.0	334.0	SHEARED GRANODIORITE										
		Sheared at 60° to CA.										
		316.0 - 317.0	2861	316.0	317.0	1.0	Tr					
		Quartz vein at 80° to CA (316.2-316.3) barren; rest of split is barren, sheared granodiorite.										
		325.0 - 326.5	2862	325.0	326.5	1.5	Tr					
		Quartz vein at 90° to CA; tourmaline, carbonate, rusty, barren.										
334.0	409.3	GREY GRANODIORITE										
		More massive than previous unit.										
		341.5 - 342.6	2863	341.5	342.6	1.1	Tr					
		Altered "cooked" granodiorite.										
		342.6 - 343.6	2864	342.6	343.6	1.0	Tr					
		Quartz vein at 90° to CA; tourmaline, carbonate, barren.										
		381.0 - 382.0	2865	381.0	382.0	1.0	Tr					
		Granodiorite with quartz-carbonate veining at random angles to CA (381.1-381.3) tourmaline, barren.										
409.3	413.5	DIORITE										
		Dark grey, fine grained, sheared contacts, homogeneous.										

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
413.5	433.8	SHEARED GRANODIORITE										
		432.5 - 433.3 Shear zone, ground, muddy core.										
433.8	457.0	QUARTZ - FELDSPAR PORPHYRY										
		Dark grey matrix with large (5mm) angular white phenocrysts, fairly homogeneous.										
457.0	468.4	SHEARED GRANODIORITE										
468.4	505.3	QUARTZ - FELDSPAR PORPHYRY										
		Similar to above unit except phenocrysts are more rounded and blue quartz phenocrysts are more numerous, occasional quartz-carbonate vein.										
505.3	604.0	GREY GRANODIORITE										
		As previously described.										
		Sheared upper contact with porphyry, trace pyrite.										
		561.5 - 562.5	2866	561.5	562.5	1.0	Tr					
		Granodiorite with quartz-carbonate-tourmaline vein at 80° to CA (561.6-561.7); trace pyrite.										
		566.5 - 567.5	2867	566.5	567.5	1.0	Tr					
		Granodiorite with quartz-carbonate-tourmaline veinlet at 30° to CA (10mm wide at 566.9); trace pyrite.										

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SONDAGE no:
HOLE no: MA-85-13
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
		569.5 - 570.5	2868	569.5	570.5	1.0	Tr					
		Quartz vein at 90° to CA (569.9 - 570.2), carbonate, tourmaline, barren; rest of split is barren granodiorite.										
604.0		END OF HOLE										
		HOLE CEMENTED										
		Core stored at Abitibi Resources, Val d'Or.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

SONDAGE No: / HOLE No: MA-85-14

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14840 N LONGITUDE: 7900 E
ÉLÉVATION: AZIMUTH: 360°
INCLINAISON/DIP: -85°
LONGUEUR/LENGTH: 691.0'

MID CANADA JOINT VENTURE
TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR: Forages J.P. Bérubé Inc.
DIMENSION DE LA CAROTTE/CORE SIZE: BQ

PROPRIÉTÉ / PROPERTY: BEVCON-BUFFADISON
LOUVICOURT TWP RANGE VII LOT 43
CLAIM NO: CM 382
SECTION: 7900 E
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B. Sc.
DATE: November 1985
COMMENCE/STARTED: November 1985
TERMINÉ/COMPLETED: November 1985

OBJECTIF/PURPOSE: Intersect E & D veins
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 200' : -83° ; 400' : -85 1/2° : 600' : -83° ; 690' : -84 1/2°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	182.0	OVERBURDEN										
182.0	197.0	FELDSPAR PORPHYRY (Fine) Medium grey, fine grained; 60% small white phenocrysts; fairly homogeneous.										
197.0	217.0	RHYOLITE (?) May perhaps be silicified phase of previous unit. Pale greenish grey, fine grained; some quartz veining.										
217.0	237.0	FELDSPAR PORPHYRY (Fine) Similar to unit previously described. N.B. Core badly broken & numerous sections of lost core from 203.0 - 242.0										
237.0	290.4	MAFIC TUFF Dark green, fine grained; sheared at 25° to CA; highly silicified at upper contact; trace pyrite.										
		242.7 - 244.7 Silicified zone several blebs pyrite & one carbonate veinlet.	2869	242.7	244.7	2.0	Tr					

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		At 257.0 individual fragments become noticeable in tuffs.										
		281.0 - 286.0 Sheared tuffs, 40% fine quartz & carbonate veinlets with traces pyrite.	2870	281.0	286.0	5.0	Tr					
	*	286.0 - 287.4 Random quartz veins(70%) with 1% pyrite & chalcopyrite blebs; several large (5mm) cubes pyrite.	2871	286.0	287.4	1.4	0.02		0.147			
		287.4 - 290.4 Sheared tuff; trace pyrite.	2872	287.4	290.4	3.0	Tr					
290.4	340.0	QUARTZ - FELDSPAR PORPHYRY Dark grey with 40% large (5mm) quartz & feldspar phenocrysts; some fine carbonate veinlets; homogeneous.										
		327.4 - 333.5 Sheared, silicified, chloritized granodiorite - blue quartz.										
340.0	348.0	CONTACT ZONE Contact between porphyry and grey granodiorite; highly sheared & often sericitized; broken core.										
		341.0 - 342.0 40% quartz veining at 20° to CA - barren; in sheared granodiorite.	2873	341.0	342.0	1.0	Tr					
348.0	427.0	SHEARED GRANODIORITE Pale to medium grey; medium grained; sheared at 25° to CA, silicified sections; some carbonate veinlets.										

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SONDAGE no: MA-85-14
HOLE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		357.0, 6" ground core.										
		404.5 - 407.0 40% quartz - carbonate veinlets along CA - barren; rest of split is silicified granodiorite.	2874	404.5	407.0	2.5	Tr					
427.0	691.0	GREY GRANODIORITE Dark grey, blue quartz, medium grained, massive; homogeneous.										
		439.0 - 442.0 Sheared granodiorite.										
		452.0 - 453.0 Quartz vein at 90° to CA (452.2 - 453.3) barren; rest of split is barren granodiorite.	2875	452.0	453.0	1.0	Tr					
		477.0 - 499.0 Sheared granodiorite.										
		499.0 - 509.5 Highly silicified, sheared zone; fine grained, pyrite blebs.										
		499.0 - 504.0 Silicified, sheared granodiorite, trace pyrite.	2876	499.0	504.0	5.0	Tr					
		504.0 - 506.4 Similar to sample #2876 except 1% pyrite cubes.	2877	504.0	506.4	2.4	Tr					
		506.4 - 507.4 Quartz vein at 35° to CA (cross cutting) (506.5 - 506.9); 3-5% pyrite in silicified granodiorite; vein is barren.	2878	506.4	507.4	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		507.4 - 509.5 Silicified sheared granodiorite with trace pyrite.	2879	507.4	509.5	2.1	0.01					
		533.0 - 534.7 Quartz vein at 90° to CA (534.1 - 534.2) plus veinlet along CA; tourmaline; barren, rest of split is silicified granodiorite.	2880	533.7	534.7	1.0	Tr					
	*	537.7 - 538.7 Quartz vein at 90° to CA (538.0, 15mm wide) 60% pyrite chunks; silicified margins with trace pyrite in granodiorite.	2881	537.7	538.7	1.0	Tr					
		538.7 - 541.6 Silicified granodiorite with trace pyrite.	2882	538.7	541.6	2.9	Tr					
	*	541.6 - 544.6 Silicified granodiorite with four quartz veins at 90° to CA (1" - 3" wide), tourmaline; blebs & chunks pyrite; granodiorite has 5% pyrite.	2883	541.6	544.6	3.0	0.12					
		544.6 - 549.0 Silicified & tourmalinized (locally) granodiorite, 1% pyrite.	2884	544.6	549.0	4.4	Tr					
		549.0 - 550.0 Silicified granodiorite, 1-3% pyrite.	2885	549.0	550.0	1.0	0.02					
		550.0 - 551.0 Quartz vein at 90° to CA (550.0 - 550.4) tourmaline; barren; rest of split is silicified granodiorite with 3% pyrite.	2886	550.0	551.0	1.0	0.02					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		551.0 - 556.0 Silicified granodiorite, trace pyrite.	2887	551.0	556.0	5.0	Tr					
	*	556.0 - 558.5 Highly silicified granodiorite with up to 10% pyrite; two small quartz veins (2" wide) with tourmaline & pyrite blebs at contacts.	2888	556.0	558.5	2.5	0.05					
		558.5 - 560.0 Granodiorite, trace pyrite.	2889	558.5	560.0	1.5	0.02					
		560.0 - 561.0 Quartz vein at 80° to CA (560.3 - 560.5, 560.8 - 560.9) tourmaline, blebs pyrite at contacts; trace pyrite in veins; rest of split is silicified granodiorite with 5-10% pyrite.	2890	560.0	561.0	1.0	0.02					
		561.0 - 563.0 Silicified granodiorite, 5% pyrite.	2891	561.0	563.0	2.0	0.01					
		563.0 - 568.0 Granodiorite, trace pyrite.	2892	563.0	568.0	5.0	Tr					
		574.0 - 575.4 Quartz vein at 90° to CA (574.3 - 574.6 ; 575.3, 10mm wide) tourmaline, barren, rest of split is barren granodiorite.	2893	574.0	575.4	1.4	Tr					
		584.0 - 585.0 30% random quartz veins, tourmaline, barren; rest of split is barren granodiorite.	2894	584.0	585.0	1.0	Tr					
		589.0 - 590.0 Lightly silicified granodiorite, 1% pyrite cubes.	2895	589.0	590.0	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		590.0 - 591.0 Quartz vein at 90° to CA (590.4, 10mm wide) pyrite blebs at contacts; rest of split is silicified granodiorite with 1-3% pyrite.	2896	590.0	591.0	1.0	Tr					
		591.0 - 595.0 Granodiorite, trace pyrite.	2897	591.0	595.0	4.0	Tr					
		595.0 - 597.0 Quartz vein at 80° to CA (595.8 - 596.4) tourmaline, barren; rest of split is silicified granodiorite with 5% pyrite.	2898	595.0	597.0	2.0	0.01					
		597.0 - 600.6 Granodiorite, trace pyrite.	2899	597.0	600.6	3.6	0.01					
		600.6 - 601.6 Quartz vein at 70° to CA (600.9 - 601.4) carbonate, tourmaline, barren; rest of split is silicified granodiorite with 5% pyrite.	2900	600.6	601.6	1.0	Tr					
		601.6 - 604.0 Silicified & tourmalinized granodiorite.	4001	601.6	604.0	2.4	0.01					
		604.0 - 608.8 Granodiorite, slightly sheared trace pyrite.	4002	604.0	608.8	4.8	Tr					
		608.8 - 611.0 Quartz vein at 80° to CA (609.4 - 610.2) carbonate, tourmaline (needles) barren; rest of split is silicified & tourmalinized granodiorite with 1-3% pyrite.	4003	608.8	611.0	2.2	0.02					
		611.0 - 613.0 Granodiorite, trace pyrpite.	4004	611.0	613.0	2.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		622.0 - 623.0 Lightly silicified granodiorite, <1% pyrite.	4005	622.0	623.0	1.0	Tr					
	*	623.0 - 624.0 Quartz vein at 90° to CA (623.4 - 623.6) 60% pyrite in chunks' s tourmaline; rest of split is silicified granodiorite with 5% pyrite.	4006	623.0	624.0	1.0	0.56					
		624.0 - 625.0 Quartz vein at 80° to CA (624.2 - 624.4) tourmaline, 5% fine pyrite; rest of split is silicified granodiorite with 1% pyrite.	4007	624.0	625.0	1.0	0.02					
		625.0 - 626.0 Granodiorite, trace pyrite.	4008	625.0	626.0	1.0	Tr					
	*	626.0 - 627.0 Quartz vein at 80° to CA (626.2 - 626.5) chunks pyrite at lower contact, tourmaline; rest of split is silicified granodiorite with 1-3% pyrite.	4009	626.0	627.0	1.0	0.43					
		627.0 - 629.0 Granodiorite, trace pyrite.	4010	627.0	629.0	2.0	Tr					
		642.0 - 643.0 Quartz vein at 70° to CA (642.3 - 642.4) tourmaline, barren; rest of split is barren granodiorite.	4011	642.0	643.0	1.0	Tr					
		643.0 - 647.0 Lightly sheared granodiorite, trace pyrite.	4012	643.0	647.0	4.0	Tr					
		647.0 - 651.3 Silicified granodiorite, 5-10% pyrite; side of quartz vein cut at 650.0 with chunk pyrite.	4013	647.0	651.0	4.3	Tr					

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SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		651.3 - 653.5 Quartz vein at 80° to CA, tourmaline (needles); barren.	4014	651.3	653.5	2.2	Tr					
		653.5 - 654.5 Silicified granodiorite, 5% pyrite.	4015	653.5	654.5	1.0	0.03					
		654.5 - 655.9 Granodiorite, trace pyrite.	4016	654.5	655.9	1.4	Tr					
		655.9 - 657.0 Quartz-tourmaline vein at 80° to CA (656.7 - 656.8) trace pyrite; rest of split is silicified & tourmalinized granodiorite with 5% pyrite.	4017	655.9	657.0	1.1	Tr					
		657.0 - 683.7 Sheared granodiorite.										
		683.7 - 685.2 Random quartz vein mostly at low angles to CA; tourmaline, 5-10% pyrite some in fine veinlets; granodiorite is silicified with 5% pyrite.	4018	683.7	685.2	1.5	0.05					
691.0		END OF HOLE										
		Hole cemented.										
		Core stored at Abitibi Resources, Val d'Or.										
		Hole terminated because intersected drift (from Bevcon mining).										

MINISTÈRE DE L'ENERGIE ET DES RESSOURCES
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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES	SONDAGE No: / HOLE No: MA-85-15
LATITUDE: 14800 N LONGITUDE: 8100 E	PROPRIÉTÉ / PROPERTY: BEVCON - BUFFADISON
ÉLÉVATION: AZIMUTH: 360° True North	LOUVICOURT TWP RANGE VII LOT 43
INCLINAISON/DIP: -85° TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE	CLAIM NO: CM 382
CONTRACTOR : Forages J.P. Bérubé Inc.	SECTION: 8100 E
LONGUEUR/LENGTH: 2243.0 feet DIMENSION DE LA CAROTTE/CORE SIZE: BQ	DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
	DATE: November 1985
OBJECTIF/PURPOSE: Intersect new veins at depth SYSTEME DE MESURES/SYSTEM OF MEASURES: IMPERIAL	COMMENCE/STARTED: November 1985
»»2000':-73 1/2° ; Tropari test at 2243' AZ: 187° Dip:-71°	TERMINE/COMPLETED: November 1985

TESTS 200':-83° ; 400 :-88° ; 600':-85° ; 800 :-88 1/2° ; 1000':-85 1/2° ; 1200':-80 1/2° ; 1400':-801/2° ; 1600':-76 1/2° ; 1800':-73 1/2° ;

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	165.0	OVERBURDEN										
165.0	175.7	FELDSPAR PORPHYRY Dark grey, medium grained, 70% small white phenocrysts, homogeneous, several quartz - carbonate veinlets, rusty zones.										
175.7	187.0	SILICIFIED FELDSPAR PORPHYRY Pale green, finer grained than unit above, "cooked" texture.										
187.0	190.0	CONTACT ZONE Drilling along contact between porphyry & mafic tuffs.										
190.0	212.0	MAFIC TUFFS Dark greenish black, fine grained; sheared at 40° to CA; often silicified & "cooked" in certain places.										
		194.4 - 196.0 Carbonated tuff with 20% pyrite blebs.	2695	194.4	196.0	1.6	Tr					
		196.0 - 197.0 Silicified, sheared tuff with < 5% fine pyrite.	2696	196.0	197.0	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		205.0 - 206.0 10% carbonate veinlets with several blebs pyrite in sheared tuffs.	2697	205.0	206.0	1.0	Tr					
212.0	216.0	CONTACT ZONE Between tuffs and quartz-feldspar porphyry; sheared, carbonate veinlets, silicified in places; fine disseminated pyrite throughout.										
		213.0 - 216.0 Sheared, 1% fine pyrite.	2698	213.0	216.0	3.0	Tr					
216.0	235.0	QUARTZ - FELDSPAR PORPHYRY Dark grey matrix with 50% large (5mm or greater) quartz & feldspar phenocrysts; fairly uniform.										
235.0	242.0	CONTACT ZONE Between porphyry & grey granodiorite highly sheared, carbonate veinlets numerous.										
		240.0 - 242.0 Shear zone, ground core.										
242.0	794.7	GREY GRANODIORITE Dark grey medium grained, 60% mafics, 20% felsics 20% quartz fairly homogeneous.										
		242.0 - 249.0 Sheared at 25° to CA										
		275.0 - 277.0 Sheared granodiorite.										
		313.8 - 315.0 Quartz vein at 90° to CA (313.8 - 313.9; 314.4 - 314.9); barren; trace tourmaline, rest of split is granodiorite.	2699	313.8	315.0	1.2	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		358.0 - 361.0 Dark green, chloritized zone. 360.0 - 360.3 Shear Zone.									
		410.0 - 416.0 Sheared granodiorite, 10% carbonate veinlets.									
		451.0 - 458.0 Sheared granodiorite.									
		454.0 - 455.0 Sheared granodiorite, small carbonate veinlet at 454.2 (1mm wide) at 20° to CA; barren.	2700	454.0	455.0	1.0	Tr				
		455.0 - 456.0 Sheared granodiorite, several blebs pyrite, fine quartz vein - tourmaline at 455.8 (10mm wide) at 15° to CA.	2701	455.0	456.0	1.0	Tr				
		456.0 - 457.0 Sheared granodiorite, 1% pyrite.	2702	456.0	457.0	1.0	Tr				
		457.0 - 458.0 Quartz vein at 90° to CA (457.1 - 457.5) one large (10mm) bleb pyrite at either contact; rest of split is granodiorite with 1% pyrite.	2703	457.0	458.0	1.0	0.02				
		458.0 - 459.5 Granodiorite, 1% pyrite.	2704	458.0	459.5	1.5	Tr				
		486.0 - 492.0 Sheared granodiorite.									
		496.0 - 508.0									
		499.5 - 500.5 Quartz carbonate veining at steep angles to CA (499.5 - 499.8); trace pyrite; rest of split is granodiorite with several blebs pyrite.	2705	499.5	500.5	1.0	Tr				

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		500.5 - 502.0 Sheared granodiorite, trace pyrite.	2706	500.5	502.0	1.5	Tr					
		502.0 - 504.0 Sheared granodiorite, 1% pyrite.	2707	502.0	504.0	2.0	Tr					
		504.0 - 505.0 Quartz vein at 90° to CA (504.1 - 504.5) trace pyrite; rest of split is granodiorite with 1% pyrite.	2708	504.0	505.0	1.0	Tr					
		505.0 - 508.0 Sheared granodiorite with < 1% scattered blebs pyrite.	2709	505.0	508.0	3.0	Tr					
		513.6 - 514.6 Silicified granodiorite, 1% pyrite in fine veinlets & blebs.	2710	513.6	514.6	1.0	Tr					
		514.6 - 516.6 Silicified & sericitized granodiorite, 10% random quartz veins, 1% pyrite.	2711	514.6	516.6	2.0	Tr					
		516.6 - 517.6 Quartz vein at 80° to CA (516.6 - 517.3) vuggy quartz, 5% pyrite; tourmaline, rest of split is silicified granodiorite.	2712	516.6	517.6	1.0	Tr					
		517.6 - 521.6 Lightly sheared granodiorite 1% pyrite locally.	2713	517.6	521.6	4.0	Tr					
		521.6 - 522.6 Quartz vein at 90° to CA (521.6 - 521.9), tourmaline, 10% pyrite blebs & chunks; rest of split is silicified granodiorite with 1% pyrite.	2714	521.6	522.6	1.0	0.08					

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SONDAGE no: MA-85-15
HOLE no:

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		522.6 - 524.0 Quartz-tourmaline veining at 50° to CA (523.0 - 523.9) 5% pyrite in granodiorite at contacts.	2715	522.6	524.0	1.4	Tr				
		524.0 - 525.0 Quartz vein at 80° to CA (524.2 - 524.9) barren; pyrite blebs in granodiorite on either side.	2716	524.0	525.0	1.0	Tr				
		525.0 - 526.0 Quartz vein at 80° to CA (525.2 - 525.9) same as above # 2716.	2717	525.0	526.0	1.0	Tr				
		526.0 - 530.0 Granodiorite < 1% pyrite.	2718	526.0	530.0	4.0	Tr				
	*	530.0 - 531.0 Random quartz-tourmaline veining with 10% pyrite blebs & chunks.	2719	530.0	531.0	1.0	0.11				
		531.0 - 532.0 Silicified granodiorite with 30% quartz vein at steep angles to CA (1/2" wide & 3" wide barren; upper 3" of split has 1% pyrite.	2710	531.0	532.0	1.0	0.01				
		532.0 - 534.0 Granodiorite, 1% pyrite.	2721	532.0	534.0	2.0	Tr				
		534.0 - 535.0 Quartz vein at 90° to CA (534.4 - 534.7) tourmaline, blebs pyrite at contacts, rest of split is granodiorite, < 1% pyrite.	2722	534.0	535.0	1.0	0.02				
		535.0 - 540.0 Granodiorite, trace pyrite.	2723	535.0	540.0	5.0	Tr				
		540.0 - 542.4 20% random quartz veins (10mm wide) barren in granodiorite.	2724	540.0	541.4	1.4	Tr				

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		541.4 - 542.7 Random quartz - tourmaline veining (50%) barren in granodiorite.	2725	541.4	542.7	1.3	Tr					
		542.7 - 543.7 Random quartz vein tourmaline chlorite (80% quartz vein in split) barren; rest of split is granodiorite.	2726	542.7	543.7	1.0	Tr					
		554.0 - 555.5 50% random quartz-tourmaline chlorite veining, trace pyrite.	2727	554.0	555.5	1.5	Tr					
		561.7 - 562.7 Granodiorite with small (20mm) Quartz vein at 561.7 - barren.	2728	561.7	562.7	1.0	Tr					
		576.0 - 578.2 Silicified granodiorite with carbonate veinlets, 1% pyrite.	2729	576.0	578.2	2.2	Tr					
	*	578.2 - 579.6 Quartz vein at 90° to CA; tourmaline, carbonate, 5% pyrite chunks & blebs.	2730	578.2	579.6	1.4	0.12					
		579.6 - 581.0 Silicified granodiorite, 1% pyrite.	2731	579.6	581.0	1.4	Tr					
		602.0 - 613.0 Sheared granodiorite. 603.0 Shear zone (1' long)										
		611.0 - 612.0 Quartz-tourmaline veining at 30° to CA, 50% of split, barren; rest of split is sheared granodiorite.	2732	611.0	612.0	1.0	Tr					
		617.0 - 621.0 Sheared granodiorite with 30% quartz-carbonate-tourmaline veining at 20° to CA; trace fine pyrite.	2733	617.0	621.0	4.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		648.5 - 650.5 Sheared granodiorite, 1% pyrite.	2734	648.5	650.5	2.0	Tr					
	*	650.5 - 651.5 Quartz vein, tourmaline at 90° to CA (650.6 - 650.7), chill margin to 651.0, 20% pyrite chunks & blebs in vein & on either side for 1" - 2"; rest of split is sheared granodiorite.	2735	650.5	651.5	1.0	Tr					
		651.5 - 653.5 Sheared granodiorite, trace pyrite.	2736	651.5	653.5	2.0	Tr					
		654.6 - 670.6 Highly silicified zone, sheared original textures obscured, "cooked".										
		669.6 - 670.6 30% quartz-carbonate veinlets at 20° to CA; barren; sheared at 20° to CA.	2737	669.6	670.6	1.0	Tr					
		670.0 - 671.6 Sheared granodiorite.	2738	670.6	671.6	1.0	0.01					
		671.6 - 673.6 50% quartz-tourmaline veining along CA; trace pyrite; rest of core width is sheared granodiorite.	2739	671.6	673.6	2.0	Tr					
		727.0 - 737.0 Sheared granodiorite.										
		737.0 - 738.0 Sheared granodiorite, trace pyrite.	2740	737.0	738.0	1.0	Tr					
		738.0 - 739.5 Quartz vein at 80° to CA; tourmaline, carbonate; barren.	2741	738.0	739.5	1.5	Tr					

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		739.5 - 740.5 Silicified granodiorite, trace pyrite.	2742	739.5	740.5	1.0	Tr					
		749.5 - 750.5 Quartz vein at 90° to CA (749.8 - 750.0), carbonate at margins, 2" chill margin with 1-5% pyrite; rest of split is granodiorite, vein is barren.	2743	749.5	750.5	1.0	Tr					
		754.8 - 755.8 Quartz vein at 80° to CA (755.3 - 755.6) tourmaline, carbonate, trace pyrite; 1-2" chill margins with 1% pyrite; rest of split is granodiorite with 1% pyrite.	2744	754.8	755.8	1.0	Tr					
	*	764.0 - 765.0 Quartz vein at 70° to CA (764.4 - 764.7) 50% pyrite chunks, tourmaline, carbonate, rest of split is silicified granodiorite.	2745	764.0	765.0	1.0	0.04					
		765.0 - 766.0 Quartz vein at 90° to CA (765.2 - 765.3) barren; rest of split is silicified granodiorite with 1% pyrite.	2746	765.0	766.0	1.0	Tr					
		770.0 - 772.0 Granodiorite, trace pyrite, quartz-carbonate veining at 90° to CA from 770.2 - 770.4; barren.	2747	770.0	772.0	2.0	Tr					
		772.0 - 773.0 Granodiorite, 1% pyrite; quartz vein at 90° to CA (772.9 - 773.0); tourmaline, barren.	2748	772.0	773.0	1.0	0.01					
		773.0 - 774.6 Quartz vein at 80° to CA (773.4 - 774.5) carbonate, tourmaline, barren; rest of split is silicified granodiorite with trace pyrite.	2749	773.0	774.6	1.6	Tr					

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		774.6 - 775.6 Silicified & tourmalinized granodiorite, trace pyrite.	2750	774.6	775.6	1.0	Tr					
		775.6 - 776.6 Silicified & tourmalinized granodiorite, random carbonate & quartz (20%) trace pyrite.	2772	775.6	776.6	1.0	Tr					
		777.6 - 779.0 Granodiorite, trace pyrite, fine quartz vein at 778.5	2773	776.6	779.0	2.4	Tr					
		781.7 - 782.7 Granodiorite with 10% mineralized quartz veinlets at steep angles to CA.	2774	781.7	782.7	1.0	Tr					
		782.7 - 784.6 Sheared & silicified granodiorite with 1-5% disseminated pyrite.	2775	782.7	784.6	1.9	Tr					
		784.6 - 785.6 Quartz vein at 90° to CA (784.6 - 785.2) tourmaline, carbonate, 1% pyrite, rest of split is sheared & silicified granodiorite with 5% pyrite.	2776	784.6	785.6	1.0	0.02					
		785.6 - 787.6 Silicified granodiorite 3-5% pyrite.	2777	785.6	787.6	2.0	Tr					
		787.6 - 789.6 Sheared, chloritized granodiorite, 1% pyrite.	2778	787.6	789.6	2.0	Tr					
794.7	807.2	QUARTZ - FELDSPAR PORPHYRY										
		As previously described.										
		794.0 - 795.0 Contact zone; silicified 1-5% pyrite.	2779	794.0	795.0	1.0	Tr					

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		795.0 - 797.0 Porphyry with 5% fine mineralized quartz veins.	2780	795.0	797.0	2.0	Tr					
807.2	817.4	SHEARED & ALTERED GRANODIORITE Highly sheared, original textures obscured.										
		816.0 - 817.0 Quartz veining at 20° to CA; 5% pyrite; in sheared granodiorite.	2781	816.0	817.0	1.0	0.09					
817.4	828.0	BASIC DYKE Dark green, fine grained; porphyritic; quartz-carbonate veining, lightly sheared; 5% small white phenocrysts.										
828.0	837.0	SHEARED GRANODIORITE As previously described.										
837.0	934.0	QUARTZ - FELDSPAR PORPHYRY As previously described.										
		863.7 - 867.0 Sheared granodiorite.										
		912.0 - 917.0 50% quartz veining; small veins (1" - 2") at steep angles to CA; large vein (913.7 - 915.7) along CA; tourmaline, barren.	2782	912.0	917.0	5.0	Tr					
934.4	1088.0	GREY GRANODIORITE As previously described.										

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		934.4 - 935.3 Sheared granodiorite.									
		935.4 - 936.4 Quartz veining at 20° to CA ; tourmaline, carbonate, 1% pyrite.	2783	935.4	936.4	1.0	Tr				
		942.0 - 943.0 Granodiorite with fine (10mm) quartz vein at 942.6 with several blebs pyrite.	2784	942.0	943.0	1.0	Tr				
		973.0 - 974.0 Quartz vein at 80° to CA (973.3 - 973.8) barren; rest of split is granodiorite.	2785	973.0	974.0	1.0	Tr				
		973.0 - 1088.0 Green feldspars.									
		1014.0 - 1015.0 Sheared granodiorite.									
		1050.0 - 1051.0 Broken core.									
		1056.0 - 1057.0 Altered granodiorite with 1% pyrite.	2786	1056.0	1057.0	1.0	Tr				
1088.0	1114.7	SHEARED GRANODIORITE Sheared at 30° to CA.									
		1113.6 - 1114.7 Sheared & sericitized granodiorite; < 1% pyrite.	2787	1113.6	1114.7	1.0	Tr				
1114.7	1954.5	GRANODIORITE Distinctive blue quartz & greenish feldspars.									

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		1150.0 - 1151.0 Quartz vein at 1150.6 - 1150.7 at 90° to CA, 50% pyrite chunks, rest of split is barren granodiorite.	2788	1150.0	1151.0	1.0	Tr					
		1179.0 - 1199.0 Sheared granodiorite.										
		1202.5 - 1206.5 Random quartz-tourmaline veining, 30%; trace pyrite; rest of split is sheared granodiorite.	2789	1202.5	1206.5	3.5	Tr					
		1252.0 - 1253.0 Quartz vein at 90° to CA (1252.4 - 1252.5) tourmaline, carbonate, barren; rest of split is barren granodiorite.	2790	1252.0	1253.0	1.0	Tr					
		1273.0 - 1274.0 Quartz vein at 90° to CA (1273.6 - 1273.7) tourmaline, carbonate, barren; rest of split is barren granodiorite.	2791	1273.0	1274.0	1.0	Tr					
		1274.0 - 1275.0 Quartz vein at 80° to CA (1274.8 - 1274.9) tourmaline, carbonate, 5% pyrite blebs; rest of split is barren granodiorite.	2792	1274.0	1275.0	1.0	Tr					
		1295.0 - 1296.0 Quartz vein at 80° to CA (1295.1 - 1295.4) tourmaline, carbonate, barren, rest of split is barren granodiorite.	2793	1295.0	1296.0	1.0	Tr					
		1298.0 - 1306.0 Sheared granodiorite.										
		1343.0 - 1344.4 Quartz vein at 70° to CA (1343.9 - 1344.0) tourmaline, carbonate, barren.	2797	1343.4	1344.4	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		1351.0 - 1353.0 Silicified granodiorite.										
		1366.0 - 1367.0 Quartz vein at random angles (1366.3 - 1366.9) tourmaline, carbonate, barren, rest of split is barren granodiorite.	2794	1366.0	1367.0	1.0	Tr					
		1368.5 - 1369.5 Random quartz vein at 1268.9-1269.3 tourmaline, carbonate, barren, rest of split is barren granodiorite.	2795	1368.5	1369.5	1.0	Tr					
		1370.0 - 1373.0 Broken core.										
		1373.3 - 1373.4 Quartz vein at 15° to CA (1373.3 - 1373.7) tourmaline, carbonate, barren, rest of split is barren granodiorite.	2796	1373.3	1374.3	1.0	Tr					
		1388.5 - 1389.5 Silicified granodiorite with fine (10mm) quartz-carbonate at 1389.3 in small shear zone, barren.	2798	1388.5	1389.5	1.0	Tr					
		1397.0 - 1398.0 Quartz vein at 90° to CA (1397.2 - 1397.5) hematite staining, tourmaline, barren, rest of split is chloritized granodiorite.	2799	1397.0	1398.0	1.0	Tr					
		1400.0 - 1401.0 Quartz vein at 90° to CA (1400.2 - 1400.5) barren, rest of split is barren granodiorite.	2800	1400.0	1401.0	1.0	Tr					
		1401.0 - 1402.0 Quartz vein at 90° to CA (1401.3 - 1401.4) barren; rest of split is barren granodiorite.	2801	1401.0	1402.0	1.0	Tr					

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		1403.0 - 1404.0 Quartz vein at 90° to CA (1403.1, 10mm wide) barren; rest of split is barren granodiorite.	2802	1403.0	1404.0	1.0	Tr					
		1404.0 - 1405.5 Quartz vein at 80° to CA (1404.9 - 1405.3) tourmaline, chlorite, barren, rest of split is barren granodiorite.	2803	1404.0	1405.5	1.5	Tr					
		1411.0 - 1412.0 Quartz vein at 80° to CA (1411.5 - 1411.6) tourmaline, carbonate, barren; rest of split is barren granodiorite.	2804	1411.0	1412.0	1.0	Tr					
		1414.5 - 1415.5 Quartz vein at 80° to CA (1414.8 - 1414.9) carbonate, trace pyrite, rest of split is barren granodiorite.	2805	1414.5	1415.5	1.0	Tr					
		1415.5 - 1416.5 Quartz vein at 50° to CA (1416.3 - 1416.5) tourmaline, carbonate, barren; rest of split is barren granodiorite.	2806	1415.5	1416.5	1.0	Tr					
		1425.7 - 1427.2 20% quartz vein at 70° to CA 10-30mm wide, tourmaline, barren; rest of split is slightly silicified granodiorite.	2807	1425.7	1427.2	1.5	Tr					
		1452.0 - 1453.0 Altered granodiorite, 10% quartz, < 1% pyrite.	2808	1452.0	1453.0	1.0	0.04					
		1487.0 - 1489.0 Altered granodiorite, 15% quartz & tourmaline, barren.	2809	1487.0	1489.0	2.0	0.01					
		1493.5 - 1494.5 Granodiorite with 10mm tourmaline veinlet at 30° to CA with 20% blebs pyrite (1494.0).	2810	1493.5	1494.5	1.0	Tr					

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		1494.5 - 1496.0 Granodiorite, trace pyrite	2811	1494.5	1496.0	1.5	Tr					
	*	1496.0 - 1497.0 Quartz vein at 40° to CA (1496.2 - 1496.4) tourmaline, 10% pyrite blebs; rest of split is barren granodiorite.	2812	1496.0	1497.0	1.0	Tr					
		1500.0 - 1550.0 Green feldspars remarkable.										
		1519.0 - 1520.0 Random quartz vein (1519.7 - 1519.9) tourmaline, barren; rest of split is barren granodiorite.	2813	1519.0	1520.0	1.0	Tr					
		1525.0 - 1526.0 Highly silicified zone "cooked" trace pyrite, hematite.	2814	1525.0	1526.0	1.0	Tr					
		1552.0 - 1552.0 Quartz vein at 80° to CA (1551.5 - 1551.6) barren; rest of split is barren granodiorite.	2815	1551.0	1552.0	1.0	Tr					
		1587.0 - 1588.0 Quartz vein at 80° to CA (1587.7 - 1587.8) barren; rest of split is barren granodiorite.	2816	1587.0	1588.0	1.0	Tr					
		1597.0 - 1602.5 Diorite - dark grey - fine grained.										
		1602.5 - 1604.0 Quartz vein at 30° to CA; tourmaline, trace cubic pyrite associated with tourmaline.	2817	1602.5	1604.0	1.5	0.11					
		1621.5 - 1622.5 10% random quartz veinlets (5-10mm wide) trace pyrite; rest of split is granodiorite with trace pyrite.	2818	1621.5	1622.5	1.0	Tr					

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		1654.0 - 1656.0 Altered, silicified granodiorite, 10% quartz veining, 1% pyrite.	2819	1654.0	1656.0	2.0	0.01					
		1656.0 - 1658.0 Silicified granodiorite with Quartz veining along CA (1/2 of core width) 1% pyrite in granodiorite, trace pyrite in quartz vein.	2820	1656.0	1658.0	2.0	0.04					
		1658.0 - 1659.7 Similar to sample #2820.	2821	1658.0	1659.7	1.7	0.02					
		1659.7 - 1660.7 Quartz vein at 45° to CA trace pyrite; tourmaline, mineralized granodiorite inclusions.	2822	1659.7	1660.7	1.0	Tr					
		1660.7 - 1663.2 Silicified granodiorite with 20% random quartz veinlets (10mm) trace pyrite	2823	1660.7	1663.2	2.5	Tr					
		1663.2 - 1665.2 50% random quartz veins (drilling along vein); 1% pyrite mostly in sheared granodiorite.	2824	1663.2	1665.2	2.0	0.01					
		1665.2 - 1666.2 70% quartz - tourmaline veining at 30° to CA; 1% pyrite mostly in sheared granodiorite.	2825	1665.2	1666.2	1.0	Tr					
		1666.2 - 1667.2 Sheared granodiorite with 20% barren quartz-tourmaline veining.	2826	1666.2	1667.2	1.0	Tr					
		1679.5 - 1680.5 Silicified granodiorite 10% fine quartz veinlets, 1% pyrite.	2827	1679.5	1680.5	1.0	Tr					
		1705.0 - 1706.0 Quartz vein at 55% to CA (1705.2 - 1705.7) blebs pyrite at contacts; rest of split is granodiorite.	2828	1705.0	1706.0	1.0	Tr					

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		1712.0 - 1717.0 Chloritized granodiorite 1% fine disseminated pyrite.	2829	1712.0	1717.0	5.0	Tr					
		1717.0 - 1718.0 Similar to above but with quartz vein along 1/4 width of core barren (quartz vein).	2830	1717.0	1718.0	1.0	Tr					
		1730.0 - 1741.0 Chloritized granodiorite.										
		1761.5 - 1762.5 Quartz vein at 80° to CA (1761.8 - 1761.9), barren; rest of split is granodiorite with up to 5% fine pyrite.	2831	1761.5	1762.5	1.0	0.01					
		1773.0 - 1778.0 Drilling along shear zone with tourmaline, some quartz & 1% pyrite.	2832	1773.0	1778.0	5.0	Tr					
		1782.6 - 1783.6 Quartz vein at 80° to CA (1782.6 - 1783.0) tourmaline, chlorite, barren; rest of split is granodiorite with 3% pyrite.	2833	1782.6	1783.6	1.0	0.01					
		1783.6 - 1784.6 Silicified granodiorite; 1% pyrite.	2834	1783.6	1784.6	1.0	Tr					
		1794.5 - 1795.5 Quartz vein at 37° to CA (1795.1 - 1795.2) carbonate, barren; rest of split is granodiorite with trace pyrite.	2835	1794.5	1795.5	1.0	Tr					
		1817.7 - 1818.7 Chloritized granodiorite with come carbonate veining & trace pyrite.	2836	1817.7	1818.7	1.0	Tr					
		1818.7 - 1819.7 Silicified granodiorite, trace pyrite.	2837	1818.7	1819.7	1.0	Tr					

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		1819.7 - 1820.7 Quartz vein at 80° to CA (1820.1 - 1820.2) barren, rest of split is barren granodiorite.	2838	1819.7	1820.7	1.0	Tr					
		1820.7 - 1822.0 Barren granodiorite.	2839	1820.7	1822.0	1.3	Tr					
		1822.0 - 1823.0 Quartz vein at 80° to CA (1822.2 - 1822.3) tourmaline, barren; rest of split is granodiorite with < 1% pyrite.	2840	1822.0	1823.0	1.0	Tr					
		1829.5 - 1830.5 Quartz vein at 80° to CA (1829.6 - 1829.7) barren; chlorite, tourmaline; rest of split is barren granodiorite.	2841	1829.5	1830.5	1.0	Tr					
		1832.0 - 1833.0 Quartz vein at 60° to CA (1832.1 - 1832.3) tourmaline, trace pyrite; rest of split is barren granodiorite.	2842	1832.0	1833.0	1.0	Tr					
		1854.7 - 1856.1 Quartz-tourmaline vein at 20° to CA (1854.9 - 1855.6) 1% fine pyrite; rest of split is silicified, sheared granodiorite with 1% pyrite.	2843	1854.6	1856.1	1.4	0.01					
		1862.5 - 1863.5 Fine (< 5mm) quartz vein along CA with 5% pyrite blebs in barren granodiorite.	2844	1862.5	1863.5	1.0	Tr					
		1877.0 - 1881.0 10% fine, random carbonate veinlets with trace pyrite in barren granodiorite.	2845	1877.0	1881.0	4.0	Tr					
		1894.0 - 1895.0 Quartz vein at 35° to CA (1894.6 - 1894.8) 5% pyrite; carbonate; rest of split is chloritized granodiorite.	2846	1894.0	1895.0	1.0	0.01					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: HOLE no: MA-85-15

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		1899.1 - 1904.4 Basic dyke; dark grey; aphanitic; upper contact at 33° to CA.										
		1904.4 - 1954.5 Chloritized granodiorite.										
1954.5	1992.0	BASIC DYKE Dark greenish - black; fine grained homogeneous occasional quartz - carbonate stringer, barren. Granodiorite inclusion at 1988.4 - 1989.2 Contacts at 40° to CA.										
1992.0	2243.0	GREY GRANODIORITE As previously described.										
		2003.0 - 2005.0 Random Quartz vein mostly along CA, < 1% pyrite.	2847	2003.0	2005.0	2.0	0.01					
		2022.5 - 2023.5 Silicified cherty zone.										
		2025.2 - 2026.2 Silicified, cherty zone with 3% pyrite (2025.2 - 2025.5) rest of split is barren granodiorite.	2848	2025.2	2026.2	1.0	Tr					
		2042.0 - 2045.6 Quartz vein at 20° to CA; tourmaline, chlorite; trace pyrite.	2849	2042.0	2045.6	3.6	Tr					
		2056.5 - 2061.0 Random quartz veining silicified, cherty zone; tourmaline, chlorite, carbonate, trace pyrite.	2850	2056.5	2061.0	4.5	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-15
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		2061.0 - 2064.0 Similar to above sample except 1% pyrite.	4051	2061.0	2064.0	3.0	Tr					
		2064.0 - 2067.0 Similar to above but trace pyrite.	4052	2064.0	2067.0	3.0	0.01					
		2104.0 - 2106.0 Random fine quartz veins; < 1% blebs pyrite.	4053	2104.0	2106.0	2.0	Tr					
		2107.0 - 2108.0 Random fine quartz - tourmaline veinlets with < 1% pyrite.	4054	2107.0	2108.0	1.0	Tr					
		2138.8 - 2139.9 Silicified zone.										
		2147.0 - 2149.0 Random quartz-carbonate veining in silicified granodiorite , 1% fine pyrite.	4055	2147.0	2149.0	2.0	Tr					
		2149.0 - 2151.0 Similar to above, except pyrite veinlets on either side of quartz vein at 70° to CA (2150.3 - 2150.5)	4056	2149.0	2151.0	2.0	0.01					
		2151.0 - 2156.0 < 1% disseminated pyrite in granodiorite.	4057	2151.0	2156.0	5.0	Tr					
		2156.0 - 2158.0 Quartz vein at 50° to CA (2156.7 - 2157.4); fine pyrite veinlets at lower contact; rest of split is silicified granodiorite with trace pyrite.	4058	2156.0	2158.0	2.0	Tr					
		2161.0 - 2162.0 Quartz vein at random angles to CA; tourmaline; 1% fine pyrite; rest of split is silicified granodiorite.	4059	2161.0	2162.0	1.0	0.02					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-15
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		2162.0 - 2163.0 Silicified granodiorite, 1% fine pyrite.	4060	2162.0	2163.0	1.0	0.02					
		2165.5 - 2166.5 Random quartz veining, tourmaline, 1% pyrite at contacts of veins; rest of split is silicified granodiorite with 1% pyrite.	4061	2165.5	2166.5	1.0	0.01					
		2167.0 - 2197.0 Sheared granodiorite (at 30° to CA).										
		2187.5 - 2189.0 Silicified granodiorite.										
		2234.0 - 2235.0 Quartz veinlet at 65° to CA (2234.2) 5mm wide; 5% pyrite blebs; flourite; rest of split is silicified granodiorite.	4062	2234.0	2235.0	1.0	Tr					
2243.0		END OF HOLE.										
		Hole Cemented.										
		Core stored at Abitibi Resources, Val d'Or.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

SONDAGE No: / HOLE No: MA-85-16A

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES

LATITUDE: 1+00S LONGITUDE: 118W

ÉLÉVATION: AZIMUTH: 360°

INCLINAISON/DIP: -55°

LONGUEUR/LENGTH: 197'

OBJECTIF/PURPOSE:

MID CANADA JOINT VENTURE Louvicourt Twp

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTORS: Forages J.P. Bérubé Ltée

DIMENSION DE LA CAROTTE/CORE SIZE: BQ

SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY Bevcon-Buffadison

RANGE VII Lot 37

CLAIM NO: A48882

SECTION: 118W

DÉCRIT PAR/LOGGED BY: Diana Sullivan, B.Sc.

DATE: November 1985

COMMENCE/STARTED: November 1985

TERMINÉ/COMPLETED: November 1985

TESTS

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au	Ag	Cu %	Zn %		
0.0	197.0	OVERBURDEN										
		Hole abandoned because HW mudrods broke										
		in hole.										
		Left 60' HW mud rods in hole.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No:
HOLE No: MA-85-16B

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 1400 S LONGITUDE: 117 + 95 W

ÉLÉVATION: AZIMUTH: 360° true north

INCLINAISON/DIP: -55° TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR : Forages J.P. Bérubé Inc.

LONGUEUR/LENGTH: 1002.0' DIMENSION DE LA CAROTTE/CORE SIZE: BQ

OBJECTIF/PURPOSE: Verify existence of granodiorite with auriferous quartz veins.

SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 600' : -56° ; 1000' : -54° ; 200' : -55°

PROPRIÉTÉ / PROPERTY Bevcon-Buffadison
Louvicourt Twp. Range VII Lot 37

CLAIM NO: A 48882

SECTION: 118 W

DÉCRIT PAR/LOGGED BY: Diana Sullivan, B.Sc.

DATE: November 1985

COMMENCÉ/STARTED: November 1985

TERMINÉ/COMPLETED: November 1985

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	187.0	OVERBURDEN										
187.0	473.0	MAFIC TUFF Dark greenish black, fine-grained; chloritized; small fragments generally elongated along direction of schistosity; (25° to CA); schistosity well pronounced.										
		198.7 - 191.2 Mud seam-fracture.										
		205.0 - 207.0 Broken Core.										
		222.7 - 223.2 Broken Core.										
		226.4 - 227.4 Quartz-carbonate vein at 30° to CA; orange carbonate alteration; trace fine pyrite in tuff inclusions.	2751	226.4	227.4	1.0	Tr					
		230.8 - 231.8 Quartz vein at 80° to CA (230.9 - 231.3); tourmaline barren; rest of split is mafic tuff.	2752	230.8	231.8	1.0	Tr					
		236.0 - 237.0 Quartz vein random angles to CA; barren; orange carbonate alteration.	2753	236.0	237.0	1.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-16-B
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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		237.0 - 238.0	2754	237.0	238.0	1.0	Tr					
		Quartz vein (237.4 - 237.9) at 40° to CA; barren.										
		239.0 - 241.0	2755	239.0	241.0	2.0	Tr					
		Quartz vein (239.2 - 240.7) cross-cutting (80° to CA) tourmaline, carbonate, barren.										
		242.9 - 243.9	2756	242.9	243.9	1.0	Tr					
		Quartz vein at 90° to CA, carbonate, tourmaline barren.										
		251.0 4" broken core.										
		277.0 - 357.0 Lightly sheared & often crenulated; numerous fine quartz-carbonate stringers.										
		357.0 - 377.0 Core less sheared - felsic fragments more abundant - some angular, some rounded.										
		377.0 - 396.0 Sheared at 15° to CA.										
		396.0 - 397.7 Shear zone, broken core, mud seam at 397.7, 10-20mm quartz vein, concordant at lower contact - barren.										
		400.0 - 401.4 Ground & broken core - shear.										
		408.0 - 410.0	2757	408.0	410.0	2.0	Tr					
		Massive unit, silicified. <1% pyrite blebs.										
		Broken core at 439.0 (0.5'); 452.0 (0.5'); 464.3 (0.5').										

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SONDAGE no:
HOLE no: MA-85-16B
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		467.0 - 473.0 Numerous felsic fragments.									
473.0	486.5	FELDSPAR PORPHYRY (?)									
		Fine grained unit with porphyritic texture; grey									
		with numerous (40%) pale phenocrysts; quartz									
		carbonate veinlets.									
		485.0 - 486.0	2758	485.0	486.0	1.0	Tr				
		Quartz vein (485.6 - 486.0) cross-cutting &									
		interfingering; barren.									
486.5	609.2	MAFIC TUFF									
		As previously described.									
		546.0 - 547.0	2759	546.0	547.0	1.0	Tr				
		Quartz-carbonate veining at random angles to									
		CA (546.1 - 546.3), 1% fine pyrite, tourmali-									
		ne; rest of split is mafic tuff, slightly									
		silicified at contacts.									
		547.0 - 549.0	2760	547.0	549.0	2.0	Tr				
		Quartz-carbonate veining at random angles to									
		CA; 1-3% fine pyrite, vuggy quartz.									
		549.0 - 551.0	2761	549.0	551.0	2.0	Tr				
		Mafic tuff - quartz-carbonate veinlets; barren									
		551.0 - 553.5	2762	551.0	553.5	2.5	Tr				
		Tuff with fine (5mm) quartz carbonate veinlet									
		Along CA; 1% pyrite blebs.									

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SONDAGE no:
HOLE no: MA-85-16B
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		566.5 - 568.0	2763	566.5	568.0	1.5	Tr					
		Random quartz-carbonate veining, trace pyrite.										
		592.0 - 598.0 Feldspar porphyry, pale grey, white phenocrysts, gradational contacts.										
		607.0 - 608.0	2764	607.0	608.0	1.0	Tr					
		Random quartz veining, trace pyrite										
609.2	797.0	FELDSPAR PORPHYRY										
		Dioritic in composition with 50-60% fine white feldspar phenocrysts; fairly homogeneous, locally traces fine pyrite; fine quartz & carbonate stringers.										
		613.0 - 616.0 Mafic tuff inclusion.										
		718.2 - 719.2	2765	718.2	719.2	1.0	Tr					
		Quartz vein at 718.7 (20mm wide) 1% pyrite blebs; 90° to CA; rest of split is porphyry with trace pyrite.										
797.0	807.0	CONTACT ZONE										
		Altered & silicified zone between porphyry & dacite; quartz veining.										
		801.3 - 804.0	2766	801.3	804.0	2.7	0.01					
		Quartz veining at random angles to CA; some cross-cutting, some concordant; several large (10mm) blebs pyrite.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-16B

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
807.0	871.0	DACITE (Andesite)										
		Pale grey; fine grained; massive; homogeneous;										
		upper contact at 23° to CA.										
		808.0 - 810.0	2767	808.0	810.0	2.0	Tr					
		Chloritized; dark grey. 1% pyrite blebs.										
		832.0 - 833.0	2768	832.0	833.0	1.0	Tr					
		Silicified zone 832.2 - 832,6 at 35° to CA;										
		1% fine pyrite.										
		N.B. error of 10' between 837.0 - 847.0 ; hole										
		shorter than markers.										
		847.0 – 871.0 Andesitic to basaltic in composition.										
871.0	881.0	SHEAR ZONE										
		Altered & sheared along CA to 25° to CA; silicified										
		chloritized; quartz, carbonate veinlets.										
		876.0 - 878.0	2769	876.0	878.0	2.0	Tr					
		1% pyrite in sheared volcanic or porphyry ?										
881.0	897.0	COARSE FELDSPAR PORPHYRY										
		Dark grey matrix with 30% large (5mm) pale pheno-										
		crysts.										
		892.0 - 893.0	2770	892.0	893.0	1.0	Tr					
		1% pyrite in silicified fragments.										

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SONDAGE no:
HOLE no: MA-85-16B
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
897.0	992.0	FELDSPAR PORPHYRY										
		Pale grey with small white phenocrysts (50-60%);										
		homogeneous.										
		968.5 - 969.5	2771	968.5	969.5	1.0	Tr					
		Mafic inclusion with quartz-carbonate veining										
		at 35° to CA; trace pyrite.										
992.0		END OF HOLE										
		Core stored at Abitibi Resources, Val d'Or.										

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SONDAGE No:
HOLE No: MA-85-17A

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14600 N LONGITUDE: 7800 E
ÉLÉVATION: AZIMUTH: 180°
INCLINAISON/DIP: -55°
LONGUEUR/LENGTH: 255'

MID CANADA JOINT VENTURE
TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé
DIMENSION DE LA CAROTTE/CORE SIZE: BQ
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY Bevcon-Buffadison
Louvicourt Twp. Range VIII Lot 37
CLAIM NO: A48881
SECTION: 7800 E
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
DATE: November 1985
COMMENCE/STARTED: November 1985
TERMINÉ/COMPLETED: November 1985

TESTS

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au	Ag	Cu %	Zn %		
0	255.0	OVERBURDEN.										
		Hole lost at 255' in overburden.										
		0 - 50.0 ' SAND.										
		50.0 - 200.0 COARSE GRAVEL & BOULDERS.										
		200.0 - 255.0 QUICKSAND → CAUSE OF LOSS OF HOLE.										
		Casing broken in hole										

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MID CANADA JOINT VENTURE

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES			SONDAGE No:
LATITUDE: 5+05 N	LONGITUDE: L 124 W		HOLE No: MA-85-17B1
ÉLÉVATION:	AZIMUTH: 180°		PROPRIÉTÉ / PROPERTY: BEVCON - BUFFADISON
INCLINAISON/DIP: -65°	TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE		Louvicourt Twp Range VIII Lot 37
	CONTRACTOR : Forages J.P. Bérubé Inc.		CLAIM NO: A 48881
LONGUEUR/LENGTH: 325.0'	DIMENSION DE LA CAROTTE/CORE SIZE: BQ		SECTION: L 124 W
			DÉCRIT PAR/LOGGED BY: Diana L.Sullivan, B.Sc.
			DATE: December 1985
OBJECTIF/PURPOSE: Test extension of "New Louvre" granodiorite	SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL		COMMENCÉ/STARTED: December 1985
			TERMINÉ/COMPLETED: December 1985
TESTS 200' : -59°			

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
						(ft)						
0	130.0	OVERBURDEN										
130.0	147.0	MAFIC TUFF Dark grey, fine to medium grained; schistose at 50° to CA; fragments elongated along schistosity direction; fine quartz - carbonate veinlets common; chloritized; barren.										
147.0	157.5	MUD SEAM										
157.5	170.0	PORPHYRITIC ANDESITE - DACITE Medium to dark grey with 40% small white phenocrysts; fairly homogeneous; barren; sericitized.										
170.0	207.0	MAFIC TUFF Similar as previously described unit.										
		195.0 - 198.0 Trace pyrite; quartz vein at 90° to CA (196.5 - 197.0); chlorite, barren.	6001	195.0	198.0	3.0	Tr					
		198.0 - 202.5 Trace pyrite.	6002	198.0	202.5	4.5	Tr					
		202.5 - 207.0 Ground & broken core.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-17B1
PAGE: 2 DE/OF 2

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
207.0	325.0	DIORITE PORPHYRY Pale grey with 60% small white phenocrysts; massive; fairly homogeneous; occasional trace pyrite; generally fairly fresh.										
		214.5 - 217.0 Trace cubic pyrite in silicified, amorphous zone.	6003	214.5	217.0	2.5	Tr					
		258.0 - 261.0 20% random quartz veining in silicified zone, barren.	6004	258.0	261.0	3.0	Tr					
		265.0 - 269.0 Trace pyrite in silicified zone (partially tuffaceous unit ?).	6005	265.0	269.0	4.0	Tr					
		269.0 - 271.0 Trace pyrite in porphyry.	6006	269.0	271.0	2.0	Tr					
		276.0 - 279.0 Trace pyrite in sheared & silicified section (tuffaceous unit ?).	6007	276.0	279.0	3.0	Tr					
		305.0 - 306.0 Quartz vein along CA; 1/4 core width; trace pyrite.	6008	305.0	306.0	1.0	Tr					
		309.7 - 311.7 Quartz vein along CA; 1/8 core width to 1/2 core width; trace pyrite.	6009	309.7	311.7	2.0	Tr					
325.0		END OF HOLE										
		Hole terminated due to trouble with mud seams at beginning of hole.										
		Casing then reamed to 172' & hole started again.										

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MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-17B2

COORDONNEES DE L'ORIFICE / COLLAR COORDINATES	
LATITUDE: 5 + 05 N LONGITUDE: L 124 W	
ÉLÉVATION: AZIMUTH: 180°	
INCLINAISON/DIP: -65°	TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
	CONTRACTOR : Forages J.P. Bérubé Inc.
LONGUEUR/LENGTH: 1177.0'	DIMENSION DE LA CAROTTE/CORE SIZE: BQ
OBJECTIF/PURPOSE: Intersect "New Louvre" granodiorite.	SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL
TESTS 200' : -61° ; 400' : -61° ; 600' : -64° ; 800' : -62 1/2° ; 1000' : -57° ; 1177' : -50°	

PROPRIÉTÉ / PROPERTY	BEVCON - BUFFADISON
	LOUVICOURT TWP RANGE VIII LOT 37
CLAIM NO:	A 48881
SECTION:	L 124 W
DECRIT PAR/LOGGED BY:	Diana L. Sullivan, B.Sc.
DATE:	December 1985
COMMENCE/STARTED:	December 1985
TERMINÉ/COMPLETED:	December 1985

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	165.0	OVERBURDEN & CASING										
165.0	178.0	PORPHYRITIC ANDESITE Medium to dark grey; 40% small, white phenocrysts fairly homogeneous; barren, sericitized; fine quartz & carbonate veinlets.										
178.0	210.0	MAFIC TUFF Dark grey; fine to medium grained; schistose at 50° to CA; fragments elongated along schistosity direction; fine quartz & carbonate veinlets common; chloritized; trace pyrite.										
		181.4 - 184.4 Trace pyrite.	6010	181.4	184.4	3.0	Tr					
		196.0 - 198.0 Quartz vein at 80° to CA (196.2 - 197.1)	6011	196.0	198.0	3.0	Tr					
		201.0 - 203.0 Trace pyrite.	6012	201.0	203.0	2.0	Tr					
210.0	279.7	DIORITE PORPHYRY Pale grey with 60% small white phenocrysts; massive, fairly homogeneous & fresh; trace pyrite.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: MA-85-17B2
HOLE no:

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		215.0 - 217.0 Trace pyrite in silicified zone	6013	215.0	217.0	2.0	Tr					
		255.7 - 258.0 Quartz vein at 70° to CA, carbonate, barren; chlorite, tourmaline.	6014	255.7	258.0	2.3	Tr					
279.7	304.0	INTERMEDIATE TUFFS Medium grey, banded; small white phenocrysts; several porphyry inclusions; occasional trace pyrite.										
304.0	331.5	DACITE Medium grey; fine grained, massive, homogeneous; fine quartz-carbonate veinlets common; barren. 330.5 - 331.5 Drilling along contact; quartz veining; barren.										
331.5	892.0	DIORITE PORPHYRY As previously described. 345.0 - 346.5 Dacite.										
		386.3 - 387.5 Quartz vein at 40° to CA; barren.	6015	386.3	387.5	1.2	Tr					
		405.0 - 407.0 Quartz vein at 80° to CA; tourmaline, chlorite; barren.	6016	405.0	407.0	2.0	Tr					
		450.0 - 500.0 Several fine blue quartz veinlets generally along CA.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		495.5 - 496.5 Fine blue quartz veinlet at 495.9, 50° to CA; 20mm wide, 1% disseminated chalcopyrite, rest of split is barren porphyry.	6017	495.5	496.5	1.0	Tr				
		513.5 - 515.0 Quartz vein at 40° to CA; blue quartz; barren.	6018	513.5	515.0	1.5	Tr				
		532.5 - 533.5 Trace chalcopyrite associated with quartz bleb.	6019	532.5	533.5	1.0	Tr				
		577.7 - 584.0 Tuff inclusion.									
		597.8 - 599.3 Dacite inclusion.									
		617.0 - 622.0 Splashes chalcopyrite & pyrrhotite in silicified patches.	6020	617.0	622.0	5.0	Tr		0.04		
		622.0 - 627.0 Similar to above.	6021	622.0	627.0	5.0	Tr		0.14		
		627.0 - 632.0 Similar to above.	6022	627.0	632.0	5.0	Tr		0.15		
		647.0 - 649.4 40% random quartz veining (2" - 6" wide) barren.	6023	647.7	649.4	1.7	Tr				
		672.0 - 677.0 Dacite inclusion at 45° to CA.									
		676.0 - 677.0 Quartz vein at contact between dacite & porphyry, barren.	6024	676.0	677.0	1.0	Tr				
		700.0 - 701.0 Splash chalcopyrite in silicified patch.	6025	700.0	701.0	1.0	Tr				

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		700.0 - 770.0 Rocks altered, "cooked" less fresh in appearance.										
		741.5 - 744.0 Quartz vein at random angles to CA (742.7 - 743.4); trace pyrite in porphyry; vein is barren.	6026	741.5	744.0	2.5	Tr					
		757.0 - 761.0 Quartz vein at 80° to CA (757.7 - 758.2) (759.0 - 761.0), tourmaline, carbonate, barren.	6027	757.0	761.0	4.0	Tr					
		764.0 - 767.0 Dacite inclusion; lightly sheared; trace pyrite.	6028	764.0	767.0	3.0	Tr					
		783.0 4" ground quartz vein - barren.										
		802.0 - 807.0 1% disseminated pyrite blebs in silicified, sheared zone (fine grained).	6029	802.0	807.0	5.0	Tr					
		812.0 - 816.0 Similar to above.	6030	812.0	816.0	4.0	Tr					
		816.0 - 819.0 Similar to above.	6031	816.0	819.0	3.0	Tr					
		825.0 - 826.5 Trace pyrite in quartz vein at 80° to CA (825.8 - 825.9) trace pyrite in silicified porphyry.	6032	825.0	826.5	1.5	Tr					
		830.5 - 833.0 Trace pyrite associated with fine quartz veins & silicified areas.	6033	830.5	833.0	2.5	Tr					
		835.0 - 840.5 10% random quartz veinlets in silicified porphyry, trace pyrite.	6034	835.5	840.5	5.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		852.0 - 855.5 Similar to above.	6035	852.0	855.5	3.5	Tr				
		870.0 - 875.0 Trace pyrite, chalcopyrite in porphyry.	6036	870.0	875.0	5.0	Tr				
892.0	913.6	ANDESITE Dark grey, fine grained, massive homogeneous; occasional bleb pyrite; fine quartz-carbonate veinlets common.									
		911.0 - 913.6 Trace pyrite.	6037	911.0	913.6	2.6	Tr				
913.6	925.0	DIORITE PORPHYRY As previously described but more altered ; chloritized.									
925.0	1177.0	ANDESITE & MAFIC TUFFS Series of vesicular lavas & medium grained tuffs; generally dark greenish - grey; schistose at 50° to CA; epidotized in places; chloritized.									
		935.0 - 938.0 Trace fine pyrite in lightly sheared & silicified tuff.	6038	935.0	938.0	3.0	Tr				
		938.0 - 942.0 Shear zone with quartz, carbonate veining & mud seam at 940.7; trace pyrite.	6039	938.0	942.0	4.0	Tr				
		947.0 - 949.0 Trace pyrite in andesite.	6040	947.0	949.0	2.0	Tr				
		949.0 - 954.0 Same as above.	6041	949.0	954.0	5.0	Tr				
		954.0 - 957.0 Same as above.	6042	954.0	957.0	3.0	Tr				

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		970.0 - 971.0 Quartz vein at 55° to CA (970.3 - 970.5) several cubes pyrite; tourmaline.	6043	970.0	971.0	1.0	Tr					
		987.0 - 989.0 1% disseminated pyrite in altered andesite.	6044	987.0	989.0	2.0	Tr					
		1030.5 - 1032.5 Trace pyrite associated with quartz veining at 1031.0 (5mm); 1031.7 - 1032.4; rest of split is sheared & silicified andesite.	6045	1030.5	1032.5	2.5	Tr					
		1052.0 - 1057.0 Trace pyrite associated with quartz patches in tuff.	6046	1052.0	1057.0	5.0	Tr					
		1057.0 - 1062.0 Same as above.	6047	1057.0	1062.0	5.0	Tr					
		1062.0 - 1067.0 Trace disseminated cubic pyrite.	6048	1062.0	1067.0	5.0	Tr					
		1067.0 - 1072.0 Same as above.	6049	1067.0	1072.0	5.0	Tr					
		1072.0 - 1077.0 Same as above.	6050	1072.0	1077.0	5.0	Tr					
		1082.5 - 1087.0 Trace cubic pyrite in tuffaceous section.	6051	1082.5	1087.0	4.5	Tr					
		1087.0 - 1089.0 Same as above.	6052	1087.0	1089.0	2.0	Tr					
		1116.0 - 1118.0 Trace pyrite in coarse tuff.	6053	1116.0	1118.0	2.0	Tr					
		1135.0 - 1177.0 Porphyritic andesite, 30% white phenocrysts.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		1167.0 - 1172.0 Trace cubic pyrite.	6054	1167.0	1172.0	5.0	Tr					
1177.0		END OF HOLE.										
		Hole makes water.										
		Core stored at Abitibi Resources, Val d'Or.										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOUT 1986
VAL D'OR
MINES

RESSOURCES ABITIBI RESOURCES LTÉE LTD

JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-18

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14500 N LONGITUDE: 7550 E
ÉLÉVATION: AZIMUTH: 180°
INCLINAISON/DIP: -87°
LONGUEUR/LENGTH: 512.0'

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé Inc.
DIMENSION DE LA CAROTTE/CORE SIZE: BQ
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY: BEVCON-BUFFADISON
LOUVICOURT TWP RANGE VII LOT 43
CLAIM NO: CM382
SECTION: 7550 E
DÉCRIT PAR/LOGGED BY: Diana Sullivan, B. Sc.
DATE: December 1985
COMMENCE/STARTED: December 1985
TERMINÉ/COMPLETED: December 1985

OBJECTIF/PURPOSE: Intersect previously drilled veins along strike.

TESTS 200' : -85° ; 400' : -79° ; 512' : -79°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	77.0	OVERBURDEN										
77.0	78.0	BOULDER FRAGMENTS										
78.0	512.0	GREY GRANODIORITE Dark grey; blue quartz; 40% mafics; 30% quartz, 30% feldspars; homogeneous; medium grained.										
		78.0 - 79.0 Quartz-tourmaline at 78.7 - 78.9 5% pyrite associated with tourmaline; rest of split is granodiorite with < 1% pyrite.	4019	78.0	79.0	1.0	0.23					
		96.5 - 98.5 Random quartz-tourmaline veinlets with blebs pyrite; rusty weathered core.	4020	96.5	98.5	2.0	Tr					
		98.5 - 100.0 Trace pyrite in silicified granodiorite.	4028	98.5	100.0	1.5	Tr					
		105.0 - 106.3 < 1% pyrite in silicified granodiorite.	4021	105.0	106.3	1.3	Tr					
		108.3 - 111.3 Three small (1" or less) quartz veins with blebs pyrite at contacts & associated with tourmaline veinlets; rest of split is silicified granodiorite with 1% pyrite.	4022	108.3	111.3	3.0	0.01					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		111.3 - 115.0 Silicified granodiorite, 1% pyrite.	4023	111.3	115.0	3.7	Tr				
		118.0 - 119.0 Silicified granodiorite, 3% pyrite, some blebs.	4024	118.0	119.0	1.0	Tr				
		120.5 - 122.0 < 1% pyrite in tourmaline hair-line veinlet; barren quartz vein at 90° to CA (121.6 - 121.7).	4025	120.5	122.0	1.5	Tr				
		122.0 - 123.0 < 1% pyrite in silicified grano-diorite.	4026	122.0	123.0	1.0	Tr				
		130.3 - 131.5 Rusty, broken core.									
		135.0 - 138.0 Silicified zone, trace pryite.	4027	135.0	138.0	3.0	Tr				
		148.5 - 150.0 Silicified zone, 1% disseminated pyrite.	4029	148.5	150.0	1.5	0.01				
		159.0 - 163.0 Random quartz veins with 1% fine pyrite; tourmaline, carbonate.	4030	159.0	163.0	4.0	Tr				
		189.8 - 190.4 Pink, silicified zone; barren.									
		193.5 - 196.2 Pink, silicified zone; < 1% pyrite	4031	193.5	196.2	2.7	Tr				
		200.5 - 201.5 1-3% disseminated pyrite plus several blebs in tourmaline veinlet.	4032	200.5	201.5	1.0	Tr				
		207.0 - 209.0 Random quartz-tourmaline veining; 1% disseminated pyrite.	4033	207.0	209.0	2.0	Tr				

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		209.0 - 211.0 Quartz vein at 209.3 - 209.4 (55° to CA), 1% pyrite blebs; Quartz vein at 210.6 - 210.8 (55° to CA) barren; rest of split is silicified granodiorite with 1-3% pyrite.	4034	209.0	211.0	2.0	0.01					
		211.0 - 213.0 Quartz vein at 70° to CA (212.0-212.2, 212.5 - 212.9) barren; rest of split is silicified granodiorite with 3-5% fine pyrite.	4035	211.0	213.0	2.0	0.03					
		213.0 - 216.0 Quartz veins at steep angles to CA (214.0 - 214.2, 214.7 - 214.8, 215.1 - 215.2, 215.3 - 215.4) several blebs pyrite in each veinlet except first one, rest of split is silicified granodiorite with 3-5% pyrite.	4036	213.0	216.0	3.0	0.05					
		216.0 - 217.5 Granodiorite; trace pyrite.	4037	216.0	217.5	1.5	Tr					
		217.5 - 219.5 Quartz vein at 70° to CA (217.6-217.9, large pyrite bleb) (218.8 - 219.0, 1% pyrite) tourmaline veinlets; rest of split is silicified granodiorite with 3-5% pyrite.	4038	217.5	219.5	2.0	0.15		0.10/4.0'			
		219.5 - 221.5 Quartz vein at 32° to CA (220.8-221.1) tourmaline, carbonate, barren; rest of split is silicified granodiorite with 5% disseminated pyrite blebs.	4039	219.5	221.5	2.0	0.05					
		221.5 - 223.5 Silicified granodiorite, < 1% pyrite; several fine quartz-carbonate & tourmaline veinlets.	4040	221.5	223.5	2.0	0.02					
		223.5 - 227.0 Quartz vein at 70-80° to CA (224.0-226.7) tourmaline, carbonate, trace pyrite; rest of split is silicified granodiorite with 1% pyrite.	4041	223.5	227.0	3.5	0.01					

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		227.0 - 228.0 Silicified granodiorite, 1% pyrite associated with fine tourmaline veinlets.	4042	227.0	228.0	1.0	0.01					
		228.0 - 229.0 Quartz vein at 80° to CA; tourmaline, carbonate, barren.	4043	228.0	229.0	1.0	0.01					
		229.0 - 230.0 Quartz vein at 80° to CA (229.1-229.3) 5% pyrite blebs at contacts; rest of split is silicified granodiorite with 3% pyrite	4044	229.0	230.0	1.0	0.07					
		230.0 - 232.0 Silicified granodiorite, 1-3% pyrite; quartz vein at 231.0 - 231.3 at 80° to CA; barren.	4045	230.0	232.0	2.0	0.01	> 0.06/ 80				
		232.0 - 237.0 50% quartz veins at steep angles to CA (1" - 6" wide) tourmaline; contain several blebs pyrite each; rest of split is silicified granodiorite with 3-5% pyrite.	4046	232.0	237.0	5.0	0.08					
		242.0 - 244.0 Pink alteration, 20% random quartz veins with trace pyrite.	4047	242.0	244.0	2.0	Tr					
	*	252.8 - 253.9 Quartz vein at 20° to CA; 20% pyrite chunks at contacts - tourmaline.	4048	252.8	253.9	1.1	0.54					
		253.9 - 255.0 Silicified granodiorite, 5% pyrite associated with tourmaline.	4049	253.9	255.0	1.1	0.03					
		256.5 - 257.5 Quartz vein at 70° to CA (256.8-257.2) 20% pyrite chunks; rest of split is silicified granodiorite with 1% pyrite.	4050	256.5	257.5	1.0	0.13	0.18/ 4.2'				
		257.5 - 258.5 30% quartz veins at 60° to CA, trace pyrite, 1"-3" wide; rest of split is silicified granodiorite with 1% pyrite.	4101	257.5	258.5	1.0	0.02					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		258.5 - 262.0 Silicified granodiorite, quartz vein at 260.4 (1" wide); < 1% pyrite.	4102	258.5	262.0	3.5	0.01					
		266.0 - 267.0 Quartz vein along CA 266.0 - 266.2 tourmaline, 1% pyrite; rest of split is barren granodiorite.	4103	266.0	267.0	1.0	Tr					
		273.0 - 274.0 Quartz vein at 90° to CA 273.5-273.7; barren, rest of split is granodiorite with 1% pyrite.	4104	273.0	274.0	1.0	Tr					
		287.0 - 288.0 Quartz vein at 90° to CA (287.6-287.7) blebs pyrite at contacts; rest of split is granodiorite with 3-5% pyrite.	4105	287.0	288.0	1.0	Tr					
		290.5 - 292.0 Silicified granodiorite, 1-3% pyrite.	4106	290.5	292.0	1.5	Tr					
		292.0 - 293.0 50% quartz veins at 45° to CA; 1"-3" wide; blebs & chunks pyrite at contacts; rest of split is silicified granodiorite with 3-5% pyrite.	4109	292.0	293.0	1.0	0.07					
		293.0 - 296.0 Quartz vein at 90° to CA, 293.8-295.3 heavy tourmaline, trace pyrite; rest of split is silicified granodiorite with 3-5% pyrite.	4107	293.0	296.0	3.0	0.01					
		296.0 - 298.0 Quartz vein at 40° to CA (297.1-297.3) tourmaline, carbonate, trace pyrite, rusty, rest of split is silicified granodiorite with 1% pyrite.	4108	296.0	298.0	2.0	Tr					

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		298.0 - 300.0 Silicified granodiorite, 1% pyrite, one small 1/2" quartz vein - barren.	4110	298.0	300.0	2.0	Tr					
		300.0 - 301.0 2 small (1" wide) quartz veins at 80-90° to CA; tourmaline, barren; granodiorite has 1% pyrite.	4111	300.0	301.0	1.0	0.01					
		301.0 - 303.5 Quartz vein at 70° to CA (302.0-302.2) tourmaline, carbonate, barren; granodiorite has 1% pyrite.	4112	301.0	303.5	2.5	Tr					
		314.0 - 315.0 Quartz vein at 90° to CA (314.2-314.4) tourmaline, blebs pyrite at contacts.	4113	314.0	315.0	1.0	Tr					
		317.0 - 320.0 3-5% pyrite in granodiorite.	4114	317.0	320.0	3.0	Tr					
		329.0 - 330.0 1-3% pyrite in granodiorite.	4115	329.0	330.0	1.0	0.01					
		330.0 - 331.0 Quartz vein at 90° to CA (330.3-330.5) tourmaline, carbonate, barren; rest of split is silicified granodiorite with 5% pyrite.	4116	330.0	331.0	1.0	Tr					
		331.0 - 333.0 Granodiorite, 3-5% pyrite, small (1") quartz vein at 332.7 with blebs pyrite at contacts.	4117	331.0	333.0	2.0	0.01					
		333.0 - 337.0 25% small (1"-2") quartz veins at steep angles to CA often with blebs pyrite at contacts; granodiorite has 1-3% pyrite.	4118	333.0	337.0	4.0	0.01					
		337.0 - 338.0 Silicified granodiorite, 1% pyrite.	4119	337.0	338.0	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
	*	338.0 - 339.0 Quartz - tourmaline vein at 70° to CA, 30% large blebs pyrite (338.0-338.5); granodiorite has 1% pyrite.	4120	338.0	339.0	1.0	0.51					
		339.0 - 343.0 Granodiorite, 1% pyrite & 10% small (1" or less) quartz veins at steep angles to CA - barren.	4121	339.0	343.0	4.0	Tr					
		343.0 - 347.0 Granodiorite, 1% pyrite locally.	4122	343.0	347.0	4.0	Tr					
		347.0 - 348.0 Quartz vein at 80° to CA (347.7-347.8) trace pyrite; granodiorite has trace pyrite.	4123	347.0	348.0	1.0	Tr					
		354.5 - 355.5 Quartz vein at 70° to CA (355.1-355.2) trace pyrite; barren granodiorite.	4124	354.5	355.5	1.0	0.03					
		357.5 - 360.5 20% quartz veins (1"-4" wide) at steep angles to CA, tourmaline, carbonate, occasional bleb pyrite; granodiorite has 5% pyrite.	4125	357.5	360.5	3.0	0.01					
		360.5 - 364.0 Similar to above.	4126	360.5	364.0	3.5	Tr					
		364.0 - 367.0 Random quartz vein (364.9-366.0) rusty; tourmaline; carbonate, trace pyrite.	4127	364.0	367.0	3.0	0.01					
		367.0 - 372.0 10% fine quartz veins (2" or less) at steep angles to CA; trace pyrite; granodiorite has 1% pyrite.	4128	367.0	372.0	5.0	0.04					
		372.0 - 375.0 Silicified granodiorite with 40% random quartz-tourmaline veining with blebs pyrite (up to 10%).	4129	372.0	375.0	3.0	0.06					

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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		375.0 - 377.0 Silicified granodiorite, 1% pyrite.	4130	375.0	377.0	2.0	Tr					
		377.0 - 378.5 Quartz vein at 90° to CA (377.9-378.4) carbonate, tourmaline, barren; granodiorite has 5% pyrite.	4131	377.0	378.5	1.5	Tr					
		378.5 - 379.5 Silicified granodiorite, 5% pyrite; fine quartz vein at 379.0 (< 1").	4132	378.5	379.5	1.0	0.05					
		379.5 - 381.0 Quartz-tourmaline veining, random (379.9 - 380.8) 10% pyrite blebs.	4133	379.5	381.0	1.5	0.16	0.07/4.5'				
		381.0 - 383.0 Quartz vein at 60° to CA (381.0-381.1) (382.2 - 382.5) tourmaline, barren; granodiorite is silicified with 3% pyrite.	4134	381.0	383.0	2.0	0.03					
		383.0 - 385.0 Granodiorite, 1-3% pyrite.	4135	383.0	385.0	2.0	Tr					
		407.0 - 409.0 Quartz vein at 80° to CA (408.1-408.3) tourmaline, trace pyrite; granodiorite has 3-5% pyrite.	4136	407.0	409.0	2.0	Tr					
		409.0 - 411.0 30% small quartz veins (3" or less) at 70-80° to CA, trace pyrite; granodiorite has 1% pyrite.	4137	409.0	411.0	2.0	Tr					
		411.0 - 413.2 20% random quartz veins (3" or less) with tourmaline & trace pyrite; granodiorite has 1% pyrite.	4138	411.0	413.2	2.2	Tr					
		413.2 - 414.5 Quartz vein at 70° to CA; tourmaline, carbonate, barren.	4139	413.2	414.5	1.3	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		414.5 - 415.5 Granodiorite, 3-5% pyrite.	4140	414.5	415.5	1.0	Tr					
		415.5 - 417.0 Sheared granodiorite, 5-10% pyrite; 10% carbonate veining.	4141	415.5	417.0	1.5	0.01					
		417.0 - 419.3 Quartz vein at 90° to CA (417.2-417.3) tourmaline, trace pyrite, granodiorite has 1-3% pyrite.	4142	417.0	419.3	2.3	Tr					
		419.3 - 420.7 Quartz vein at 60° to CA; tourmaline, carbonate; trace pyrite at contacts.	4143	419.3	420.7	1.4	0.01					
		420.7 - 422.0 Granodiorite, 1% pyrite, quartz veins, barren at 421.8 - 422.0 at 90° to CA.	4144	420.7	422.0	1.3	Tr					
		422.0 - 427.0 Sheared & silicified granodiorite, trace pyrite.										
		432.0 - 437.0 Sheared & silicified granodiorite, 1% pyrite, 1% fine quartz veins.	4145	432.0	437.0	5.0	Tr					
		437.0 - 442.0 Similar to above.	4146	437.0	442.0	5.0	Tr					
		442.0 - 447.0 Similar to above.	4147	442.0	447.0	5.0	Tr					
		447.0 - 452.0 Similar to above.	4148	447.0	452.0	5.0	Tr					
		457.0 Rusty zone - 6".										
		474.0 - 477.0 Sheared granodiorite (at 35° to CA); trace pyrite.	4149	474.0	477.0	3.0	Tr					
		487.0 - 489.0 Quartz-tourmaline vein at 50° to CA; carbonate, chlorite, barren.	4150	487.0	489.0	2.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		494.0 - 495.0 Quartz vein at 80° to CA (494.5-494.8) tourmaline, large bleb (chunk) pyrite at contact; granodiorite has 5% pyrite.	4151	494.0	495.0	1.0	Tr					
		495.0 - 496.0 Granodiorite, 5% pyrite.	4152	495.0	496.0	1.0	Tr					
		496.0 - 500.0 Granodiorite, trace pyrite with quartz - chlorite vein at 90° to CA, (497.3-497.6) barren; 1" quartz veinlet at 499.0 (barren).	4153	496.0	500.0	4.0	Tr					
		500.0 - 502.0 20% quartz - chlorite veining as described above.	4154	500.0	502.0	2.0	Tr					
		503.5 - 504.5 Quartz vein at 80° to CA (503.5-504.0) tourmaline, epidote, barren; barren granodiorite.	4155	503.5	504.5	1.0	Tr					
		509.0 - 510.0 Quartz vein at 80° to CA (509.6-509.8) chlorite, carbonate, barren; barren granodiorite.	4156	509.0	510.0	1.0	Tr					
512.0		END OF HOLE.										
		Hole cemented.										
		Core stored at Abitibi Resources, Val d'Or.										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOUT 1986
VAL D'OR
MINES

RESSOURCES ABITIBI RESOURCES LTÉE LTD

JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-19

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14500 N LONGITUDE: 7450 E
ÉLÉVATION: AZIMUTH: 180°
INCLINAISON/DIP: -87°
LONGUEUR/LENGTH: 607.0
OBJECTIF/PURPOSE:

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé
DIMENSION DE LA CAROTTE/CORE SIZE: BQ
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY: BEVCON - BUFFADISON
LOUVICOURT TWP RANGE VII LOT 43
CLAIM NO: CM 382
SECTION: 7450 E
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B. Sc.
DATE: December 1985
COMMENCÉ/STARTED: December 1985
TERMINÉ/COMPLETED: December 1985

TESTS 200' : -84 1/2° ; 400' : -84 1/2° ; 600' : -81 1/2°

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	59.0	OVERBURDEN										
59.0	607.0	GREY GRANODIORITE Pale greyish - blue; 50% mafics, 25% felsics; 25% blue quartz; massive, homogeneous.										
		59.0 - 61.0 20% quartz veins (up to 3" wide) at steep angles to CA, trace pyrite; granodiorite is silicified with 1-3% pyrite.	4278	59.0	61.0	2.0	Tr					
		61.0 - 62.7 20% quartz veins (1" or less) at steep angles to CA; trace pyrite, granodiorite is silicified with 1-3% pyrite.	4279	61.0	62.7	1.7	Tr					
		62.7 - 66.2 Quartz vein at 35° to CA, tourmaline, carbonate, trace pyrite.	4280	62.7	66.2	3.5	Tr					
		66.2 - 70.2 Sheared granodiorite; rusty section; trace pyrite.	4281	66.2	70.2	4.0	Tr					
		70.2 - 72.5 20% fine quartz veins (1" or less) at steep angles to CA; traces pyrite; granodiorite is silicified with 1-3% pyrite.	4282	70.2	72.5	2.3	0.02					
		72.5 - 75.0 10% random quartz veinlets with trace pyrite; granodiorite has trace pyrite.	4283	72.5	75.0	2.5	0.01					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		75.0 - 78.0 Granodiorite, 1% pyrite.	4284	75.0	78.0	3.0	Tr					
		78.0 - 80.5 Granodiorite, trace pyrite.	4285	78.0	80.5	2.5	Tr					
		80.5 - 83.5 Quartz vein at 90° to CA (80.8-81.0) rusty, broken core, barren; granodiorite has trace pyrite.	4286	80.5	83.5	3.0	0.01					
		83.5 - 86.0 Quartz vein at 55° to CA (83.8-85.9) tourmaline, carbonate, trace pyrite, granodiorite inclusions; granodiorite is silicified with 1% pyrite.	4287	83.5	86.0	2.5	Tr					
		86.0 - 89.0 5% fine (1/2" ore less) random quartz & tourmaline veinlets with small blebs pyrite, granodiorite has trace pyrite.	4288	86.0	89.0	3.0	Tr					
		89.0 - 91.0 Quartz vein (1/2" wide) along CA; vuggy, 1% fine pyrite; granodiorite is silicified with trace pyrite.	4289	89.0	91.0	2.0	Tr					
		94.0 - 95.0 Rusty shear zone with quartz vein at 60° to CA (94.3 - 94.4) vuggy, trace pyrite.	4289	94.0	95.0	1.0	0.02					
		99.0 - 101.0 Random quartz vein (99.5-99.6) (100.3 (1/2")) several blebs pyrite; granodiorite has 1% pyrite.	4291	99.0	101.0	2.0	Tr					
		101.0 - 103.0 Granodiorite, trace pyrite.	4292	101.0	103.0	2.0	Tr					
		103.0 - 105.0 Quartz vein at 90° to CA (103.4, 5mm wide)(104.3-104.4, rusty), tourmaline, trace pyrite.	4293	103.0	105.0	2.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		105.0 - 107.2 Quartz - tourmaline veining at 90° to CA (105.4 - 107.2) 3% disseminated pyrite; several large chunks pyrite; granodiorite is silicified with 1% pyrite.	4294	105.0	107.2	2.2	0.06					
		107.2 - 109.7 Quartz-tourmaline vein at 65° to CA (108.6-108.9), trace pyrite; granodiorite has 1% pyrite.	4295	107.2	109.7	2.5	0.10					
		109.7 - 111.0 30% fine (1/2" or less) quartz veins at steep angles to CA; trace pyrite; granodiorite is silicified with trace pyrite.	4296	109.7	111.0	1.3	0.01					
		111.0 - 114.0 10% fine quartz & tourmaline veinlets with blebs pyrite; granodiorite has 1% pyrite.	4297	111.0	114.0	3.0	0.01					
		114.0 - 117.0 Similar to above.	4298	114.0	117.0	3.0	Tr					
		117.0 - 119.0 40% random quartz-tourmaline veining; trace pyrite; granodiorite has trace pyrite.	4299	117.0	119.0	2.0	Tr					
		119.0 - 121.0 Quartz veinlets at 90° to CA (120.3 - 120.8) (5mm wide) blebs pyrite at contacts; granodiorite has trace pyrite.	4300	119.0	121.0	2.0	0.01					
		121.0 - 123.5 Granodiorite, trace pyrite.	4318	121.0	123.5	2.5	Tr					
		123.5 - 124.6 30% random quartz with several blebs pyrite, chalcopyrite; granodiorite has trace pyrite.	4301	123.5	124.6	1.1	0.01					
		128.5 - 129.5 Similar to above.	4302	128.5	129.5	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		131.0 - 132.0 Quartz vein at 10° to CA (131.1 - 131.7) several blebs pyrite; granodiorite has trace pyrite.	4303	131.0	132.0	1.0	0.13				
		137.0 - 138.0 Quartz-tourmaline at 10° to CA (137.0 - 137.2) 1% pyrite; granodiorite has trace pyrite.	4304	137.0	138.0	1.0	Tr				
		138.0 - 139.5 Quartz vein at 90° to CA (138.3 - 138.5) barren; granodiorite has 1% pyrite.	4305	138.0	139.5	1.5	Tr				
		Rusty, broken core (132.2 - 133.8)									
		146.0 - 148.0 Quartz vein (1/2" wide) along CA (147.0 - 148.0) 10% pyrite along contacts; granodiorite has 1% pyrite.	4306	146.0	148.0	2.0	0.09				
		160.0 - 162.5 10% fine quartz veins (1" or less) trace pyrite throughout.	4307	160.0	162.5	2.5	0.01				
		162.5 - 165.0 Similar to above.	4308	162.5	165.0	2.5	0.16				
		167.5 - 168.5 Quartz vein at 90° to CA (168.0 - 168.1) carbonate, barren; granodiorite is silicified & barren.	4309	167.5	168.5	1.0	0.08				
		173.0 - 174.0 Quartz vein at 90° to CA (173.6 - 173.8) barren; granodiorite has trace pyrite.	4310	173.0	174.0	1.0	Tr				
		174.0 - 175.5 Quartz vein at 90° to CA (174.8 - 174.9) trace pyrite, granodiorite has trace pyrite.	4311	174.0	175.5	1.5	Tr				

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		175.5 - 177.0 Quartz vein at 90° to CA (176.3 - 176.4, 176.6 - 176.7); granodiorite has trace pyrite.	4312	175.5	177.0	1.5	Tr					
		177.0 - 179.0 20% fine quartz & tourmaline veinlets (1" or less) all have blebs pyrite at contacts; granodiorite is silicified with 1-3% pyrite.	4313	177.0	179.0	2.0	0.04					
		179.0 - 180.5 Quartz & heavy tourmaline at 80° to CA (179.0 - 180.3) carbonate, 3-5% pyrite blebs; rusty granodiorite.	4314	179.0	180.5	1.5	0.07					
		180.5 - 182.5 Silicified granodiorite, 5% pyrite.	4315	180.5	182.5	2.0	0.02					
		182.5 - 183.5 20% random quartz & tourmaline veinlets with blebs pyrite; granodiorite has 3-5% pyrite.	4316	182.5	183.5	1.0	0.03					
		183.5 - 186.0 Granodiorite, trace pyrite.	4317	183.5	186.0	2.5	Tr					
		209.0 - 210.5 Granodiorite, trace pyrite.	4319	209.0	210.5	1.5	Tr					
		210.5 - 213.5 10% random quartz & tourmaline veinlets with trace pyrite.	4320	210.5	213.5	3.0	0.02					
		213.5 - 215.5 Granodiorite, 1% pyrite, fine quartz veinlet at 214.3 (1/2" wide).	4321	213.5	215.5	2.0	0.01					
		215.5 - 217.0 Quartz vein at 80° to CA (215.5 - 216.3) carbonate, tourmaline, trace pyrite; granodiorite silicified with 1% pyrite.	4322	215.5	217.0	1.5	0.02					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		217.0 - 222.0 5% fine quartz & tourmaline veinlets - random; trace pyrite.	4323	217.0	222.0	5.0	Tr				
		222.0 - 223.0 Silicified granodiorite, 1% pyrite.	4324	222.0	223.0	1.0	0.01				
		223.0 - 225.0 Quartz vein at 90° to CA (223.4 - 223.5, 224.2 - 224.3) tourmaline, carbonate, trace pyrite; granodiorite is silicified with 1% pyrite.	4325	223.0	225.0	2.0	0.05				
		225.0 - 226.0 Quartz vein at 80° to CA (225.4 - 225.6) barren; granodiorite is silicified with 1% pyrite.	4326	225.0	226.0	1.0	0.01				
		226.0 - 227.5 Quartz vein at 80° to CA (226.1 - 227.2) tourmaline, granodiorite inclusions, one chunk pyrite; granodiorite has 1% pyrite.	4327	226.0	227.5	1.5	0.11				
		227.5 - 229.0 Quartz vein at 80° to CA (228.0 - 228.3) barren; granodiorite is silicified with 3-5% pyrite.	4328	227.5	229.0	1.5	Tr				
		229.0 - 230.0 Quartz vein at 70° to CA (229.4) (1/2" wide) trace pyrite; granodiorite has trace pyrite.	4329	229.0	230.0	1.0	Tr				
		232.5 - 233.5 Quartz vein at 80° to CA (232.5 - 232.7) barren; granodiorite has trace pyrite.	4330	232.5	233.5	1.0	Tr				

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		237.0 - 238.0 Quartz vein at 90° to CA (237.5, 3/4" wide) 5% pyrite blebs, tourmaline; granodiorite has trace pyrite.	4331	237.0	238.0	1.0	Tr					
		238.0 - 240.0 Granodiorite, 1% pyrite, small quartz vein at 239.8 (1" wide).	4332	238.0	240.0	2.0	Tr					
		242.0 - 243.0 Quartz vein at 90° to CA (242.5 - 242.6) tourmaline, barren; granodiorite has trace pyrite.	4333	242.0	243.0	1.0	Tr					
		267.0 - 270.0 Quartz vein at 50° to CA (267.4, 268.2, 268.6, 269.0) in sheared granodiorite - barren.	4334	267.0	270.0	3.0	0.01					
		273.5 - 274.5 Random quartz vein 273.9-274.4 carbonate, trace pyrite.	4335	273.5	274.5	1.0	Tr					
		274.5 - 277.0 Similar to above but 1% pyrite.	4336	274.5	277.0	2.5	Tr					
		277.0 - 279.5 Granodiorite, 1% pyrite.	4337	277.0	279.5	2.5	Tr					
		279.5 - 281.0 Quartz vein at 80° to CA (279.5 - 279.6, 279.7 - 279.8, 280.3 - 280.6) several chunks pyrite (5%) in each vein; granodiorite is silicified with 5% pyrite.	4338	279.5	281.0	1.5	0.02					
		281.0 - 285.0 Granodiorite, trace pyrite.	4339	281.0	285.0	4.0	Tr					
		285.0 - 287.0 Similar to above.	4340	285.0	287.0	2.0	Tr					
		287.0 - 289.0 Quartz vein at 90° to CA (287.0-287.2) tourmaline, trace pyrite; random quartz vein at 288.0-283.0 with blebs (5%) pyrite.	4341	187.0	289.0	2.0	Tr					

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		289.0 - 291.0 30% random quartz & tourmaline several chunks pyrite, granodiorite is silicified with 1-3% pyrite.	4342	289.0	291.0	2.0	0.06					
		291.0 - 293.5 Quartz vein at 70° to CA (292.4 - 292.6) tourmaline, carboante, trace pyrite; granodiorite is sheared with trace pyrite.	4343	291.0	293.5	2.5	Tr					
		293.5 - 297.0 Granodiorite, trace pyrite.	4344	293.5	297.0	3.5	Tr					
		297.0 - 299.5 20% small quartz vein (1" or less) at 90° to CA, generally have a few blebs pyrite each; granodiorite is silicified with trace pyrite.	4345	297.0	299.5	2.5	Tr					
		299.5 - 301.0 Quartz vein at 90° to CA (299.6 - 300.1, 300.4 - 300.6) tourmaline, trace pyrite; granodiorite is silicified with trace pyrite.	4346	299.5	301.0	1.5	Tr					
		305.0 - 307.5 Quartz vein at 90° to CA (305.7 - 307.0) carbonate, tourmaline, trace pyrite; granodiorite has 1% pyrite.	4347	305.5	307.5	2.0	0.01					
		307.5 - 309.8 20% small quartz veins (1" or less) at steep angles to CA, trace pyrite; granodiorite has trace pyrite.	4348	307.5	309.8	2.3	0.02					
		309.8 - 313.0 Quartz - tourmaline at 90° to CA (309.8 - 309.9, 310.0 - 310.9, 311.6 - 312.6) several blebs & chunks pyrite; granodiorite is silicified with 1% pyrite.	4349	309.8	313.0	3.2	0.01					

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DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		313.0 - 317.0 Granodiorite, 1-3% pyrite, quartz veinlet at 315.5 (1" wide at 70° to CA)	4350	313.0	317.0	4.0	Tr					
		317.0 - 320.0 10% fine quartz veins (1/2" or less) at 90° to CA; blebs pyrite; granodiorite has trace pyrite.	4351	317.0	320.0	3.0	Tr					
		320.0 - 324.0 10% fine quartz veins at steep angles to CA; trace pyrite throughout.	4352	320.0	324.0	4.0	Tr					
		324.0 - 327.0 Similar to above.	4353	324.0	327.0	3.0	Tr					
		331.0 - 333.0 Quartz vein at 90° to CA (331.0 - 331.2) (332.7 - 332.9) tourmaline, trace pyrite; granodiorite is silicified with trace pyrite.	4354	331.0	333.0	2.0	0.01					
		337.0 - 338.0 Quartz vein at 80° to CA (337.3 - 337.4) bleb pyrite at upper contact; granodiorite has trace pyrite.	4355	337.0	338.0	1.0	0.01					
		345.0 - 347.0 Quartz vein at 40° to CA (345.3 - 345.5) tourmaline, 5% pyrite blebs; granodiorite has 3-5% pyrite.	4356	345.0	347.0	2.0	Tr					
		347.0 - 349.5 Quartz vein at 90° to CA (347.5 - 347.9, 348.0 - 349.0) first quartz vein is rusty & barren, second has tourmaline & chunk pyrite.	4357	347.0	349.5	2.5	0.02					
		349.5 - 351.0 Quartz vein at 60° to CA (350.2 - 350.5) tourmaline, carbonate, several pyrite blebs, granodiorite is silicified with 1% pyrite.	4358	349.5	351.0	1.5	Tr					

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HOLE no:

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		Rusty, broken core 354.0 - 355.0										
		359.0 - 360.0 Random quartz veining (359.1 - 359.4) several blebs pyrite; granodiorite has trace pyrite.	4359	359.0	360.0	1.0	Tr					
		360.0 - 363.0 Granodiorite, 1% pyrite; quartz vein at 80° to CA (362.6 - 362.7) carbonate, barren.	4360	360.0	363.0	3.0	Tr					
		363.0 - 364.5 Quartz vein at 90° to CA (363.1 - 363.2) 20% pyrite chunks.	4361	363.0	364.5	1.5	0.02					
		364.5 - 367.0 60% random quartz & tourmaline, 10% pyrite blebs.	4362	364.5	367.0	2.5	0.02					
		367.0 - 369.0 Granodiorite, 5% pyrite.	4363	367.0	369.0	2.0	0.01					
		387.5 - 388.5 Quartz vein at 90° to CA (1/2" wide) 388.1; trace pyrite; granodiorite has 1% pyrite.	4364	387.5	388.5	1.0	Tr					
		391.0 - 393.0 20% random quartz & tourmaline veins (2" or less), trace pyrite; granodiorite silicified with trace pyrite.	4365	391.0	393.0	2.0	Tr					
		398.0 - 399.0 quartz vein at 45° to CA (398.3 - 398.4) 5% pyrite; granodiorite has trace pyrite.	4366	398.0	399.0	1.0	0.01					
		401.0 - 402.0 Quartz vein at 90° to CA (401.3 - 401.4; 401.7 - 401.8) tourmaline barren; granodiorite is silicified with trace pyrite.	4367	401.0	402.0	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		405.5 - 407.0 50% random quartz & tourmaline ; 1% pyrite; granodiorite is silicified with 1-3% pyrite.	4368	405.5	407.0	1.5	Tr					
		407.0 - 409.0 20% random quartz veins (1" or less) several belbs pyrite in some; granodiorite has trace pyrite; quartz veins at steep angles to CA.	4369	407.0	409.0	2.0	Tr					
		409.0 - 412.0 Quartz vein at 90° to CA (411.0 - 411.7) tourmaline, rusty trace pyrite; granodiorite has 1% pyrite.	4370	409.0	412.0	3.0	Tr					
		430.0 - 435.0 Pink silicified granodiorite with 10% random quartz & chlorite, 1% pyrite.	4371	430.0	435.0	5.0	Tr					
		439.0 - 440.0 Quartz vein at 90° to CA (439.1 - 439.3) carbonate, barren; granodiorite has trace pyrite.	4372	439.0	440.0	1.0	Tr					
		440.0 - 443.0 25% quartz veins at 80° to CA (3" or less) some troumaline; traces pyrite; granodiorite is silicified with 1% pyrite.	4373	440.0	443.0	3.0	Tr					
		448.0 - 449.0 Random quartz veins (448.2 - 448.6) tourmaline, carbonate, barren, granodiorite has trace pyrite.	4374	448.0	449.0	1.0	Tr					
		452.5 - 455.0 Quartz vein at 60° to CA (453.0- 453.5) tourmaline, blebs pryite at contacts, granodiorite is silicified with 1% pyrite.	4375	452.5	455.0	2.5	0.01					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		455.0 - 458.0 20% random quartz veins (1" or less) tourmaline, trace pyrite; granodiorite has 1% pyrite.	4376	455.0	458.0	3.0	Tr					
		458.0 - 461.0 Similar to above.	4377	458.0	461.0	3.0	0.01					
		461.0 - 464.0 10% quartz veins 45° to CA (1" or less) with 1% pyrite; granodiorite has 1-3% pyrite.	4378	461.0	464.0	3.0	Tr					
		472.0 - 473.0 Random quartz veins (472.2 - tourmaline, carbonate, trace pyrite; granodiorite has 5% pyrite.	4379	472.0	473.0	1.0	Tr					
		473.0 - 477.0 20% quartz veins (2" or less) at 70° to CA, tourmaline, carbonate, trace pyrite; granodiorite has trace pyrite.	4380	473.0	477.0	4.0	Tr					
		480.5 - 482.0 30% random quartz & tourmaline; 1-3% pyrite; granodiorite has trace pyrite.	4381	480.5	482.0	1.5	Tr					
		482.0 - 485.0 Silicified granodiorite, 5% pyr.	4382	482.0	485.0	3.0	Tr					
		494.5 - 497.0 20% quartz veins (2" or less) at 90° to CA; tourmaline, trace pyrite; granodiorite has 1% pyrite.	4383	494.5	497.0	2.5	Tr					
		497.0 - 500.0 40% quartz veins (1" or less) at steep angles to CA; generally trace pyrite; chunk pyrite at 498.6; granodiorite has trace pyrite.	4384	497.0	500.0	3.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		518.5 - 519.5 Random quartz veins (519.1 - 519.4) barren; granodiorite is silicified, barren.	4385	518.5	519.5	1.0	Tr				
		523.0 - 525.0 10% random quartz veins, tourmaline, trace pyrite; granodiorite has trace pyrite.	4386	523.0	525.0	2.0	Tr				
		528.0 - 607.0 Sheared, chloritized, altered granodiorite; often hematized.									
607.0		END OF HOLE.									
		Hole cemented.									
		Core stored at Abitibi Resources, Val d'Or.									

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOUT 1986
VAL D'OR
MINES

RESSOURCES ABITIBI RESOURCES LTÉE LTD

JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-20

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 14880 N LONGITUDE: 6950 E

ÉLÉVATION: AZIMUTH: 360° True North

INCLINAISON/DIP: -85° TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR : Forages J.P. Bérubé Inc.

LONGUEUR/LENGTH: 641.0 DIMENSION DE LA CAROTTE/CORE SIZE: BQ

OBJECTIF/PURPOSE: Intersect previously drilled veins along strike. SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 200' : -84 1/2° ; 400' : -85 1/2° ; 600' : -85 1/2°

PROPRIÉTÉ / PROPERTY: BEVCON-BUFFADISON
LOUVICOURT TWP RANGE VII LOT 42

CLAIM NO: CM 382

SECTION: 6950 E

DÉCRIT PAR/LOGGED BY: Diana L Sullivan B. Sc.

DATE: December 1985

COMMENCE/STARTED: December 1985

TERMINÉ/COMPLETED: December 1985

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	114.0	OVERBURDEN										
114.0	142.0	MAFIC TUFFS Dark grey; fine grained; schistosity at 25° to CA; numerous quartz veins & veinlets; trace pyrite; chloritized. 114.0 - 115.0 Rusty core.										
		117.0 - 122.0 10% fine quartz & carbonate veinlets generally in same direction as schistosity with trace pyrite.	4201	117.0	122.0	5.0	Tr					
		122.0 - 127.0 Similar to above.	4202	122.0	127.0	5.0	Tr					
		127.0 - 132.0 30% quartz - carbonate veining at 30° to CA; trace pyrite.	4203	127.0	132.0	5.0	Tr					
		132.0 - 134.5 1% pyrite associated with fine carbonate veinlets.	4204	132.0	134.5	2.5	Tr					
	*	134.5 - 135.5 Quartz vein @ 45° to CA with 3" massive chalcopyrite.	4205	134.5	135.5	1.0	Tr					
		135.5 - 137.0 Quartz vein @ 45° to CA (135.5-135.9) (136.8-136.9) Blebs pyrite & chalcopyrite contacts; rest is sheared, sericitized tuff.	4206	135.5	137.0	1.5	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		137.0 - 138.5 Quartz vein @ 70° to CA (137.5-137.8) barren; rest of split is sheared & sericitized tuff.	4207	137.0	138.5	1.5	Tr					
142.0	150.0	SHEARED QUARTZ-FELDSPAR PORPHYRY Pale greenish-grey; sericitized, sheared @ 35° to CA; 50% large (5mm) quartz & feldspar phenocrysts elongated along shearing direction; trace pyrite throughout; lower contact at 35° to CA.										
		144.0 - 149.0 Sheared porphyry, trace pyrite.	4208	144.0	149.0	5.0	Tr					
150.0	200.0	MAFIC TUFFS As previously described.										
200.0	254.0	ALTERED GRANODIORITE Fine grained, chloritized granodiorite, intermixed with tuffs, drilling along contact ?										
		200.0 - 201.0 Quartz vein @ 45° to CA (201.1-201.6) carbonate - tourmaline, barren; rest of split is altered granodiorite.	4209	200.0	201.0	1.0	Tr					
		228.0 - 230.0 10% fine quartz-carbonate veinlets with trace pyrite in sheared granodiorite.	4210	228.0	230.0	2.0	Tr					
		237.0 - 242.0 40% random quartz veins with carbonate & trace pyrite in mixture of tuffaceous & granodioritic rocks.	4211	237.0	242.0	5.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		242.0 - 243.0 Altered granodiorite, trace pyrite.	4212	242.0	243.0	1.0	Tr					
		243.0 - 247.0 Quartz vein @ 40° to CA; carbonate, tourmaline; trace pyrite.	4213	243.0	247.0	4.0	Tr					
254.0	641.0	GREY GRANODIORITE Dark bluish - grey; medium grained; 50% mafics; 25% quartz; 25% felsics; homogeneous.										
		255.0 - 256.5 80% pyrite seam (5mm wide) @ 90° to CA (255.1) rest of split is granodiorite with < 1% pyrite.	4214	255.0	256.5	1.5	Tr					
		272.0 - 277.0 < 1% pyrite in granodiorite & associated with fine quartz & carbonate veinlets.	4215	272.0	277.0	5.0	0.01					
	*	277.0 - 278.0 Quartz vein @ 80° to CA (277.6-277.7) 30% chunks & blebs pyrite; granodiorite has 1-3% pyrite.	4216	277.0	278.0	1.0	Tr					
		278.0 - 281.0 Granodiorite, 1-3% pyrite.	4217	278.0	281.0	3.0	Tr					
		281.0 - 282.0 Quartz vein @ 80° to CA, tourmaline, carbonate, barren (281.6 - 281.8) granodiorite has 1-3% pyrite.	4218	281.0	282.0	1.0	Tr					
		282.0 - 283.5 Quartz veinlets (1" or less) at 80° to CA at 282.3, 282.5, 282.9; blebs pyrite at contacts, granodiorite has 1-3% pyrite.	4219	282.0	283.5	1.5	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
	*	283.5 - 284.5 Quartz vein @ 70° to CA (283.7-284.1) 5% pyrite chunks; granodiorite has 5% pyrite.	4220	283.5	284.5	1.0	0.01					
		284.5 - 287.0 Granodiorite, 3-5% pyrite.	4221	284.5	287.0	2.5	Tr					
		291.0 - 295.0 Quartz vein along CA, tourmaline, carbonate, 1% pyrite.	4222	291.0	295.0	4.0	0.01					
		295.0 - 297.0 Quartz veins random with 1% pyrite, rusty; granodiorite sheared.	4223	295.0	297.0	2.0	0.05					
		302.0 - 303.0 Quartz vein @ 45° to CA (302.1-302.6) trace pyrite, barren granodiorite.	4224	302.0	303.0	1.0	Tr					
		309.0 - 311.0 Random Quartz veins (20%) with several blebs pyrite, granodiorite has 1-3% pyrite.	4225	309.0	311.0	2.0	0.09					
		320.0 - 321.0 Quartz vein @ 60° to CA (320.2-320.4) tourmaline at contacts with trace pyrite. Granodiorite has trace pyrite.	4226	320.0	321.0	1.0	Tr					
		332.0 - 334.0 Granodiorite, 1% pyrite.	4227	332.0	334.0	2.0	Tr					
		338.0 - 340.5 20% fine (1/2" or less) quartz-tourmaline veinlets at steep angles to CA with blebs pyrite at contacts; granodiorite has trace pyrite.	4228	338.0	340.5	2.5	Tr					
		340.5 - 342.5 Quartz vein at 60° to CA (341.5-342.2) tourmaline 1% pyrite blebs; granodiorite has trace pyrite.	4229	340.5	342.5	2.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		342.5 - 347.0 Silicified granodiorite, 1-3% pyrite, fine quartz vein at 244.5.	4230	342.5	347.0	4.5	Tr				
		366.0 - 368.0 30% quartz veins (1" or less) at 25° to CA , tourmaline, barren; granodiorite is sheared at 25° to CA, barren.	4231	366.0	368.0	2.0	Tr				
		368.0 - 371.0 Sheared granodiorite with quartz vein at 60° to CA (369.5 - 370.4) tourmaline, carbonate, barren.	4232	368.0	371.0	3.0	Tr				
		386.0 - 387.0 Quartz vein with blebs pyrite (5mm wide) at 386.6 (90° to CA) granodiorite has trace pyrite.	4233	386.0	387.0	1.0	Tr				
		397.0 - 399.0 Fine quartz veinlet at 90° to CA (398.7) several chunks pyrite; granodiorite has 3-5% pyrite.	4234	397.0	399.0	2.0	Tr				
	*	403.0 - 404.0 Quartz vein at 70° to CA (403.3-403.6) large chunks pyrite at contacts; granodiorite is silicified with 1% pyrite.	4235	403.0	404.0	1.0	0.03				
		414.0 - 415.0 Quartz vein at 50° to CA (414.6-414.8) carbonate, trace pyrite; granodiorite has trace pyrite.	4236	414.0	415.0	1.0	Tr				
		418.5 - 420.5 Silicified granodiorite with 1-3% pyrite, quartz veinlet (10mm wide) at 419.3	4237	418.5	420.5	2.0	Tr				
		428.5 - 430.0 Silicified granodiorite, 1-3% pyrite.	4238	428.5	430.0	1.5	0.06				

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		430.0 - 431.0 Quartz vein at 90° to CA (430.4 - 430.5) blebs pyrite at contacts; rest is silicified granodiorite with 3-5% pyrite.	4239	430.0	431.0	1.0	0.29	0.15/2.5'			
		431.0 - 432.5 Granodiorite, trace pyrite.	4240	431.0	432.5	1.5	Tr				
		432.5 - 433.5 Quartz vein at 90° to CA (432.8 - 432.9) chunks pyrite at contacts; granodiorite is silicified with 1-3% pyrite.	4241	432.5	433.5	1.0	Tr				
		433.5 - 436.0 Silicified granodiorite, 1-3% pyrite.	4242	433.5	436.0	2.5	Tr				
		436.0 - 438.5 Quartz vein at 15° to CA, tourmaline, carbonate, 5% pyrite.	4243	436.0	438.5	2.5	0.07				
		447.0 - 449.0 Lightly silicified granodiorite, 1% pyrite.	4244	447.0	449.0	2.0	Tr				
		449.0 - 451.0 Granodiorite, 1% pyrite	4245	449.0	451.0	2.0	Tr				
		451.0 - 453.0 30% random quartz & tourmaline veining, 1% fine pyrite; granodiorite is silicified with 5% pyrite.	4246	451.0	453.0	2.0	0.05				
	*	453.0 - 454.0 Quartz vein at 90° to CA (453.3-453.5) with 50% chunks pyrite; granodiorite is silicified with 3-5% pyrite.	4247	453.0	454.0	1.0	1.06	0.18/6.0'			
		454.0 - 457.0 20% fine quartz vein (1" or less) at steep angles to CA with tourmaline & 1% pyrite, granodiorite has 1% pyrite.	4248	454.0	457.0	3.0	0.01				

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		462.0 - 464.5 10% fine quartz veins (1/2" or less) with tourmaline & trace pyrite at steep angles to CA; granodiorite is silicified with 1% pyrite.	4249	462.0	464.5	2.5	0.03				
		475.2 - 476.6 Quartz vein at 90° to CA (475.6 - 476.0) tourmaline, pyrite blebs at contacts.	4250	475.2	476.6	1.4	0.04				
		484.0 - 485.2 Silicified granodiorite, 1% pyrite.	4251	484.0	485.2	1.2	Tr				
		485.2 - 487.0 Quartz vein at 35° to CA; 1% fine disseminated pyrite associated with tourmaline & chunk pyrite at 487.0	4252	485.2	487.0	1.8	0.21				
		487.0 - 491.5 Quartz vein continues with 5% pyrite.	4253	487.0	491.5	4.5	0.02				
		491.5 - 493.5 Silicified granodiorite, 1% pyrite.	4254	491.5	493.5	2.0	Tr				
	*	504.0 - 505.0 Quartz vein at 50° to CA (504.1 - 504.3) tourmaline, 20% pyrite; rest is silicified granodiorite with some random quartz & 1% pyrite.	4255	504.0	505.0	1.0	0.56	0.11/6.0			
		505.0 - 508.8 Granodiorite, trace pyrite.	4256	505.0	508.8	3.8	0.02				
		508.8 - 510.0 60% random quartz & carbonate veining, 5% pyrite.	4257	508.8	510.0	1.2	0.01				

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		510.0 - 514.3 Basic dyke; dark grey, fine grained, scattered pyrite cubes.									
		516.8 - 519.0 Quartz vein at 90° to CA (516.9) 1/2" wide with blebs pyrite; granodiorite has 1% pyrite.	4258	516.8	519.0	2.2	0.01				
		519.0 - 520.0 Quartz vein at 90° to CA (519.2 - 519.3) trace pyrite; granodiorite highly silicified with 5% pyrite cubes.	4259	519.0	520.0	1.0	0.01	0.26	5.7'		
	*	520.0 - 521.5 Quartz vein at 45° to CA 30% pyrite chunks, 1% chalcopyrite associated with carbonate.	4260	520.0	521.5	1.5	3.39				
		521.5 - 522.5 Granodiorite, trace pyrite.	4261	521.5	522.5	1.0	Tr				
		529.0 - 532.0 20% random quartz veins with 1% pyrite; granodiorite is silicified with 1% pyrite.	4262	529.0	532.0	3.0	0.03				
		532.0 - 537.0 Basic dyke; dark grey, fine grained, silicified with 1% pyrite; several random quartz veins.	4263	532.0	537.0	5.0	Tr				
		537.0 - 540.0 80% random quartz - tourmaline veining, 5-10% disseminated pyrite.	4264	537.0	540.0	3.0	0.04				
		540.0 - 544.0 Silicified granodiorite, 1% pyrite; quartz vein at 80° to CA (543.1 - 543.4) barren.	4265	540.0	544.0	4.0	Tr				
		555.0 - 562.0 Sheared granodiorite at 30° to CA.									

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		562.0 - 564.5 Basic dyke at 20° to CA; with 20% fine quartz, carbonate & tourmaline veinlets with 1% pyrite.	4266	562.0	564.5	2.5	Tr					
		564.5 - 569.5 Sheared granodiorite, 1% pyrite	4267	564.5	569.5	5.0	Tr					
		569.5 - 576.7 Basic dyke, as above (35° to CA), 573.5 - 574.5 quartz vein at 90° to CA; 573.7 - 573.9, tourmaline, blebs pyrite at contacts.	4268	573.5	574.5	1.0	0.01					
		582.7 - 583.7 Quartz vein at 70° to CA (583.0 - 583.2) tourmaline, blebs pyrite at contacts; granodiorite has 5% pyrite.	4269	582.7	583.7	1.0	Tr					
		586.0 - 587.5 Quartz vein at 90° to CA (586.6 - 587.2, 587.3) tourmaline, trace pyrite, granodiorite has 3-5% pyrite.	4270	586.0	587.5	1.5	Tr					
		587.5 - 589.0 10% fine quartz veinsat 90° to CA (1" or less); trace pyrite; granodiorite has 3-5% pyrite.	4271	587.5	589.0	1.5	0.03					
		589.0 - 591.0 Similar to above.	4272	589.0	591.0	2.0	0.02					
		591.0 - 592.5 Quartz veinsrandom (591.0 - 592.1) tourmaline, carbonate, 10% pyrite; granodiorite has 5% pyrite.	4273	591.0	592.5	1.5	Tr					
		592.5 - 596.5 Granodiorite, 1% pyrite.	4274	592.5	596.5	4.0	Tr					
		596.5 - 599.5 50% random quartz veins, trace pyrite, sericitized granodiorite with 1% pyrite.	4275	596.5	599.5	3.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		599.5 - 604.0 Quartz vein at 45° to CA (600.0 - 604.0) carbonate, tourmaline, barren, granodiorite silicified & barren.	4276	599.5	604.0	4.5	Tr					
		605.0 - 609.2 Basic dyke; dark grey, fine grained; 45° to CA; several fine quartz-carbonate veinlets.										
		624.5 - 627.0 10% random quartz & carbonate, barren; sheared, barren granodiorite.	4277	624.5	627.0	2.5	Tr					
		627.0 - 641.0 Sheared granodiorite.										
641.0		END OF HOLE.										
		Hole ended in drift. Hole cemented.										
		Core stored at Abitibi Resources, Val d'Or.										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOUT 1986
VAL D'OR
MINES

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-21

PROPRIÉTÉ / PROPERTY: BEVCON-BUFFADISON

Louvicourt Twp. Range VII Lot 42

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES

LATITUDE: 14880 N LONGITUDE: 6850 E

ÉLÉVATION: AZIMUTH: T North 360°

INCLINAISON/DIP: -85°

LONGUEUR/LENGTH: 707.0

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR : Forages J.P. Bérubé Inc.

DIMENSION DE LA CAROTTE/CORE SIZE: BQ

OBJECTIF/PURPOSE:

SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

CLAIM NO: CM 382

SECTION: 6850 E

DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.

DATE: December, 1985

COMMENCE/STARTED: December. 1985

TERMINÉ/COMPLETED: December 1985

TESTS 200' ; -88 1/2° ; 400' : -88 1/2° ; 600' : -86 1/2° ; 707' : -84 1/2°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	141.0	OVERBURDEN										
141.0	207.0	MAFIC TUFFS Dark greenish grey, fine fragments visible, schistose at 40° to CA; fine quartz-carbonate veinlets common, chloritized; occasional zone of epidote alteration; not mineralized.										
		195.4 - 196.4 Quartz-tourmaline vein - smoky @ 45° to CA; (195.4 - 196.0) barren.	4081	195.4	196.4	1.0	Tr					
207.0	227.0	CONTACT ZONE Intermixed mafic tuffs and grey granodiorite, sheared quartz-carbonate veining, occasional trace pyrite.										
227.0	384.2	GREY GRANODIORITE Dark grey, medium grained, fairly homogeneous, 60% mafics, 20% quartz, 20% felsics; chloritized, sheared in places.										
		236.0 - 237.0 Quartz vein @ 50° to CA, vuggy 5% fine pyrite (236.6 - 236.8); granodiorite is barren.	4082	236.0	237.0	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		237.0 - 267.0 Sheared granodiorite										
		248.2 - 252.0 Quartz vein @ 35° to CA; brecciated appearance with tourmaline & carbonate; barren.	4083	248.2	252.0	3.8	0.02					
		258.5 - 260.5 Sheared, rusty granodiorite with 20% random fine quartz vein (1" or less); trace pyrite.	4084	258.5	260.5	2.0	0.03					
		262.0 - 267.0 Silicified granodiorite, 1% pyrite, < 5% fine quartz veins.	4085	262.0	267.0	5.0	Tr					
		269.5 - 270.5 Fine quartz vein (10mm) @ 269.7 with several blebs pyrite at contacts (90° to CA), granodiorite has trace pyrite.	4086	269.5	270.5	1.0	Tr					
		275.5 - 277.0 40% random quartz veins with silicified margins, 1% pyrite; granodiorite is sheared with < 1% pyrite.	4087	275.5	277.0	1.5	0.02					
		277.0 - 278.5 Similar to above.	4088	277.0	278.5	1.5	0.01					
		282.0 - 285.0 10% fine quartz veins with trace pyrite; granodiorite is lightly sheared with 5% pyrite.	4089	282.0	285.0	3.0	Tr					
		287.0 Rusty zone → 3" wide.										
		352.0 - 357.0 Three fine (< 1") quartz veins at steep angles to CA, trace pyrite in each, granodiorite lightly sheared with 1% pyrite.	4090	352.0	357.0	5.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		357.0 - 359.0 Quartz vein @ 90° to CA (358.7-358.9), tourmaline, carbonate, barren; granodiorite has 5% pyrite.	4091	357.0	359.0	2.0	Tr					
		359.0 - 361.0 Quartz vein, 10mm wide @ 360.0 @ 70° to CA; tourmaline, blebs pyrite at contacts; granodiorite has 5% pyrite.	4092	359.0	361.0	2.0	Tr					
		361.0 - 366.0 Lightly sheared granodiorite, 3-5% pyrite.	4093	361.0	366.0	5.0	Tr					
	*	366.0 - 370.0 Quartz vein @ 80° to CA; tourmaline; carbonate, silicified granodiorite inclusions, chunks pyrite at beginning of vein; average 10% pyrite throughout.	4094 4095	366.0 367.0	367.0 370.0	1.0 3.0	0.11 Tr					
		370.0 - 371.0 Granodiorite - silicified, 1-3% pyrite.	4096	370.0	371.0	1.0	Tr					
		373.0 - 377.0 30% fine quartz veins (1" or less) with trace pyrite at steep angles to CA, granodiorite has 1% pyrite.	4097	373.0	377.0	4.0	0.01					
		377.0 - 381.0 Similar to above.	4098	377.0	381.0	4.0	0.01					
384.2	407.8	BASIC DYKE Dark grey, aphanitic; several disseminated pyrite cubes; several quartz veins; homogeneous; lower contact at 45° to CA.										
		384.2 - 385.2 Quartz - tourmaline veining at upper contact with 5% pyrite cubes (384.2-384.5); rest of split is basic dyke.	4099	384.2	385.2	1.0	0.02					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		399.5 - 400.8 Quartz vein @ 80° to CA; tourmaline, carbonate, trace pyrite.	4100	399.5	400.8	1.3	Tr					
		406.5 - 407.5 Quartz vein @ 90° to CA with 5% chunks pyrite (406.6 - 407.0); rest of split is silicified basic dyke.	4157	406.5	407.5	1.0	0.31					
407.8	598.0	GREY GRANODIORITE As previously described.										
		415.0 - 417.0 Quartz vein @ 45° to CA (416.1-416.4) tourmaline, 5% pyrite.	4158	415.0	417.0	2.0	Tr					
		417.0 - 419.0 Silicified granodiorite (417.8-418.2) with hair-line quartz vein @ 90° to CA with pyrite blebs.	4159	417.0	419.0	2.0	Tr					
		419.0 - 421.0 Quartz vein @ 90° to CA (419.5 420.0) barren; rest of split is silicified granodiorite with 1-3% pyrite.	4160	419.0	421.0	2.0	0.01					
		425.0 - 426.0 Silicified zone (425.2 - 425.5) with fine quartz veins(<5mm) with blebs pyrite; granodiorite has 1% pyrite.	4161	425.0	426.0	1.0	Tr					
		433.7 - 434.7 Quartz - tourmaline vein (433.7-434.4) heavy tourmaline, 5% disseminated & blebs pyrite.	4162	433.7	434.7	1.0	0.21					
		434.7 - 437.0 Silicified granodiorite, 3% pyrite;10% fine (<1") quartz veins with blebs py.	4163	434.7	437.0	2.3	Tr	.005/2.3'				
		437.0 - 438.0 Similar to above.	4164	437.0	438.0	1.0	0.03					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
	*	441.0 - 443.5 Quartz vein at random angles to CA, 441.4 - 443.1 tourmaline, carbonate, two large chunks pyrite @ 442.8 granodiorite has 5% pyrite.	4165	441.0	443.5	2.5	0.05					
		443.5 - 444.5 Quartz vein at 90° to CA (443.9-444.1) carbonate, barren; granodiorite has 1-3% pyrite.	4166	443.5	444.5	1.0	Tr					
		444.5 - 448.0 10% fine (1" or less) quartz veins with trace pyrite; granodiorite has trace pyrite.	4167	444.5	448.0	3.5	Tr					
		448.0 - 449.0 Quartz vein @ 60° to CA (448.0 - 448.6) tourmaline, carbonate, barren.	4168	448.0	449.0	1.0	Tr					
		451.0 - 452.0 Random quartz vein 451.5 - 451.8 tourmaline, carbonate, trace pyrite, granodiorite is silicified with 1-3% pyrite.	4169	451.0	452.0	1.0	Tr					
		459.0 - 461.0 Quartz vein @ 90° to CA (460.0 - 460.1) barren; rest of split is silicified granodiorite with 3-5% pyrite.	4170	459.0	461.0	2.0	Tr					
		461.0 - 462.5 Random quartz vein (461.5 - 462.1) tourmaline, 5% pyrite; granodiorite is silicified with 3-5% pyrite.	4171	461.0	462.5	1.5	0.01					
		462.5 - 465.0 40% quartz veins (3" or less) at steep angles to CA; blebs pyrite at contacts in each; granodiorite is silicified with 5% pyrite.	4172	462.5	465.0	2.5	0.03					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		465.0 - 466.5 Silicified granodiorite, 5% pyrite.	4173	465.0	466.5	1.5	Tr					
		466.5 - 467.5 Quartz vein, random (466.5 - 466.9) tourmaline, trace pyrite, granodiorite has 5% pyrite.	4174	466.5	467.5	1.0	0.01					
		467.5 - 470.0 Granodiorite, 1% pyrite.	4175	467.5	470.0	2.5	Tr					
		473.0 - 475.0 40% silicified granodiorite flanking fine (5mm) quartz vein with pyrite blebs at steep angles to CA, rest of granodiorite has trace pyrite.	4176	473.0	475.0	2.0	Tr					
		475.0 - 477.0 Random quartz vein, 475.2 - 476.0 tourmaline, carbonate, trace pyrite.	4177	475.0	477.0	2.0	0.02					
		482.5 - 484.5 Quartz vein @ 60° to CA (482.5-483.4) tourmaline, several blebs pyrite; rest of split is fine quartz vein & silicified granodiorite with 1% pyrite.	4178	482.5	483.5	1.0	0.03					
			4179	483.5	484.5	1.0	0.01					
		484.5 - 487.0 Granodiorite, 1% pyrite, fine quartz vein (< 5mm) @ 486.6.	4180	484.5	487.0	2.5	Tr					
		488.7 - 490.7 30% small (3" or less) quartz veins at steep angles to CA; one rusty, trace pyrite, granodiorite has < 1% pyrite.	4181	488.7	490.7	2.0	Tr					
		492.5 - 493.5 Fine quartz vein (5mm) at 70° to CA (492.7) blebs pyrite at contacts, granodiorite has 1% pyrite.	4182	492.5	493.5	1.0	0.01					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		493.5 - 495.5 Quartz vein @ 70° to CA (494.8-495.0) tourmaline, trace pyrite, granodiorite has 1% pyrite.	4183	493.5	495.5	2.0	Tr					
		495.5 - 497.0 Three small (< 1") quartz veins at 70° - 90° to CA; tourmaline; blebs pyrite; granodiorite has 1% pyrite.	4184	495.5	497.0	2.0	Tr					
		507.3 - 508.3 60% random quartz veins, tourmaline; carbonate, trace pyrite; granodiorite has trace pyrite.	4185	507.3	508.3	1.0	Tr					
		512.0 - 515.0 Silicified granodiorite with 25% random quartz - tourmaline veining; trace pyrite.	4186	512.0	515.0	3.0	Tr					
		523.3 - 525.5 Quartz vein @ 45° to CA, tourmaline, carbonate, barren.	4187	523.3	525.5	2.2	Tr					
		525.5 - 527.0 Random quartz vein (mostly along CA) with 1% pyrite blebs.	4188	525.5	527.0	1.5	0.01					
		527.0 - 528.2 Sheared granodiorite, trace pyrite.	4189	527.0	528.2	1.2	Tr					
		528.2 - 529.5 80% random quartz veins, tourmaline, carbonate, trace pyrite.	4190	528.2	529.5	1.3	Tr					
		533.0 - 534.5 Quartz vein @ 80° to CA (534.1 - 534.3) blebs pyrite at contacts, rest of split has hair-line quartz vein with pyrite blebs; granodiorite has 5% pyrite.	4191	533.0	534.5	1.5	0.14					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		534.5 - 537.0 20% small quartz veins (2" or less) with 1% pyrite blebs; granodiorite has 1% pyrite.	4192	534.5	537.0	2.5	Tr					
		539.3 - 542.5 Quartz vein along CA & lower contact @ 80° to CA; tourmaline, carbonate, silicified granodiorite inclusions; trace pyrite.	4193	539.3	542.5	3.2	0.07					
		542.5 - 544.3 Granodiorite 1-3% pyrite.	4194	542.5	544.3	2.8	Tr					
		544.3 - 545.3 Quartz vein @ 90° to CA (544.3-545.0) tourmaline, barren.	4195	544.3	545.3	1.0	0.02					
		545.3 - 547.0 Silicified granodiorite, 5% pyrite.	4196	545.3	547.0	1.7	Tr					
		573.0 - 574.5 Quartz vein @ 90° to CA (573.5-574.2) carbonate, tourmaline, trace pyrite; granodiorite has blebs pyrite.	4197	573.0	574.5	1.5	Tr					
		594.0 - 598.0 Quartz vein at low angles to and along CA, tourmaline, 1% pyrite at contact between granodiorite & quartz porphyry.	4198	594.0	598.0	4.0	0.02					
598.0	647.0	QUARTZ PORPHYRY Pale beige-green; highly sericitized; sheared; notable quartz eyes; lower contact at 25° to CA; disseminated pyrite, (< 1%) throughout.										
647.0	694.0	SHEARED GRANODIORITE Similar composition as previously described but sheared at 25° to CA.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		647.0 - 648.0 Quartz veining at 25° to CA with trace pyrite at contact, 2 fine quartz veins (1 1/2" and less).	4199	647.0	648.0	1.0	Tr					
694.0	707.0	QUARTZ - FELDSPAR PORPHYRY Dark grey matrix with 60% large (5mm) quartz, feldspar phenocrysts; granodiorite inclusions, sheared.										
		694.5 - 695.5 Fine quartz vein (< 1") at 35° to CA near contact between granodiorite & porphyry, barren.	4200	694.5	695.5	1.0	Tr					
707.0		END OF HOLE Hole cemented; core stored at Abitibi Resources, Val d'Or.										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOUT 1986
VAL D'OR
MINES

RESSOURCES ABITIBI RESOURCES

JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No:
HOLE No: MA-85-22

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 12+50 N LONGITUDE: 100 + 00 W

ÉLÉVATION: AZIMUTH: 180°

INCLINAISON/DIP: -65°

LONGUEUR/LENGTH: 1187.0'

OBJECTIF/PURPOSE: Intersect geologically interpreted shear zone

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé Inc.

DIMENSION DE LA CAROTTE/CORE SIZE: BQ

SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY: BEVCON - BUFFADISON
Louvicourt Twp. Range VIII Lot 39

CLAIM NO: C-5181-2

SECTION: L 100 + 00 W

DECRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.

DATE: December 1985

COMMENCE/STARTED: December 1985

TERMINÉ/COMPLETED: December 1985

TESTS 200' : -68 1/2° ; 400' : -59° ; 600' : -50 1/2° ; 800' : -33 1/2° ; 1000' : -30° ; 1187' : -29 1/2°

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	132.0	OVERBURDEN										
132.0	555.5	MAFIC TUFFS Dark greyish - green; fine grained, schistose at 45° to CA; numerous fine quartz & carbonate veinlets; traces pyrite; chloritized.										
		142.0 - 146.0 Trace pyrite.	4387	142.0	146.0	4.0	Tr					
		152.0 - 154.0 Trace pyrite associated with fine quartz - carbonate veinlets.	4388	152.0	154.0	2.0	Tr					
		164.0 - 165.0 Shear zone; sheared rocks with talc along some slips; some barren quartz & carbonate.										
		176.0 - 179.0 Trace disseminated pyrite.	4389	176.0	179.0	3.0	0.01					
		180.0 - 181.5 Shear zone; sheared, ground, muddy core, talcose; some barren quartz veins.										
		185.0 - 187.0 Trace cubic pyrite.	4390	185.0	187.0	2.0	Tr					
		190.0 - 192.0 Similar to above.	4391	190.0	192.0	2.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		192.0 - 196.0 Broken Core.										
		200.0 - 202.0 Trace pyrrhotite associated with silicified zone.	4392	200.0	202.0	2.0	Tr					
		217.0 - 219.5 1% cubic pyrite.	4393	217.0	219.5	2.5	Tr					
		219.5 - 222.0 60% random quartz veins 6" - 1/2" wide, tourmaline, barren; tuffs have trace pyrite.	4394	219.5	222.0	2.5	Tr					
		227.5 - 229.0 Trace pyrrhotite in fine veinlets.	4395	227.5	229.0	1.5	Tr					
		246.5 - 248.0 40% random quartz - tourmaline veining (3" or less); barren.	4396	246.5	248.0	1.5	Tr					
		262.0 - 263.8 Quartz vein at 80° to CA; chlorite, tourmaline, barren.	4397	262.0	263.8	1.8	Tr					
		267.0 6" of ground core.										
		275.0 - 276.0 Sheared & broken core.										
		290.3 - 291.3 Silicified, epidotized zone, trace pyrite.	4398	290.3	291.3	1.0	Tr					
		306.0 - 308.0 Trace cubic pyrite associated with silicification zone.	4399	306.0	308.0	2.0	Tr					
		339.5 - 340.8 Quartz vein at 90° to CA (340.0 - 340.6); chlorite, tourmaline, trace pyrite.	4400	339.5	340.8	1.3	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		364.0 - 367.0 Trace cubic pyrite, disseminated.	4401	364.0	367.0	3.0	Tr					
		367.0 - 555.5 Pale green in color.										
		416.0 - 418.0 Trace pyrite associated with fine quartz veinlets.	4402	416.0	418.0	2.0	Tr					
		448.0 - 449.5 Quartz vein at 25° to CA (448.1 - 448.9) barren; trace pyrite in tuffs	4403	448.0	449.5	1.5	Tr					
		449.5 - 451.4 Trace pyrite.	4404	449.5	451.4	1.9	Tr					
		451.4 - 452.4 Quartz vein at 70° to CA; pink carbonate, barren.	4405	451.4	452.4	1.0	Tr					
		460.5 - 461.5 Chunk pyrite at 461.0 (10mm x 5mm) associated with fine quartz vein.	4406	460.5	461.5	1.0	0.01					
		489.5 - 491.5 Shear zone, core sheared at 80° to CA & fractured along CA.	4407	489.5	491.5	2.0	Tr					
		491.5 - 494.0 Trace pyrite.	4408	491.5	494.0	2.5	Tr					
		503.0 - 508.0 Trace pyrite - cubic.	4409	503.0	508.0	5.0	Tr					
		509.0 - 555.5 Coarse fragmental.										
		522.0 - 525.0 Trace pyrite - cubic.	4410	522.0	525.0	3.0	Tr					
555.5	573.0	SHEAR ZONE Fine grained tuff sheared at 65° to CA, chloritized; some silicification; 20% fine quartz-carbonate veining.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		555.5 - 559.5 Sheared tuff.	4411	555.5	559.5	4.0	0.01					
		559.5 - 564.0 Sheared tuff.	4412	559.5	564.0	4.5	0.02					
		564.0 - 567.0 Sheared tuff.	4413	564.0	567.0	3.0	Tr					
		567.0 - 571.0 Sheared tuff.	4414	567.0	571.0	4.0	Tr					
		571.0 - 573.0 Sheared tuff.	4415	571.0	573.0	2.0	0.01					
573.0	1187.0	MAFIC TUFFS & FRAGMENTALS										
		Possibly some flow units as well similar to unit previously described.										
		575.0 - 576.0 Quartz vein at 60° to CA (575.2 - 575.6); barren.	4416	575.0	576.0	1.0	Tr					
		599.5 - 600.5 Core sheared at 70° to CA.	4417	599.5	600.5	1.0	Tr					
		608.5 - 610.0 Same as above.	4418	608.5	610.0	1.5	Tr					
		626.0 - 745.0 Vesicular lava ? numerous small white vesicles - 626.7 - 627.0 silicified, epidotized zone.										
		641.0 - 643.5 Quartz vein at 55° to CA (641.4 - 643.3); milky, barren.	4419	641.0	643.5	2.5	Tr					
		745.0 - 798.0 Fine grained unit - darker grey.										
		762.5 - 763.5 Broken, gravelly core.										

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		797.0 - 799.0 Silicified zone with 1" quartz vein & trace pyrite.	4420	797.0	799.0	2.0	Tr				
		837.0 - 838.0 Trace chalcopyrite in fine quartz - carbonate veinlet.	4421	837.0	838.0	1.0	Tr				
		863.0 - 865.0 Sheared at 90° to CA (863.5 - 864.5); silicified, quartz-carbonate veinlets.	4422	863.0	865.0	2.0	Tr				
		874.5 - 875.5 Quartz vein at 90° to CA (874.8 - 875.3) tourmaline, barren.	4423	874.5	875.5	1.0	Tr				
		899.0 - 901.0 Quartz vein at 90° to CA (899.3 - 899.5 ; 900.0 - 900.2) tourmaline, barren.	4424	899.0	901.0	2.0	Tr				
		939.5 - 940.5 Quartz vein at 90° to CA (939.8 - 940.4) tourmaline - trace pyrite.	4425	939.5	940.5	1.0	Tr				
		946.5 - 948.5 Quartz veining at steep angles to CA (60% quartz veins) (4" & less); tourmaline, barren.	4426	946.5	948.5	2.0	Tr				
		957.0 - 960.0 Trace pyrite in tuffs; 2" quartz vein at 957.8 (90° to CA, barren).	4427	957.0	960.0	3.0	Tr				
		967.0 - 969.0 Trace pyrite in tuffs.	4428	967.0	969.0	2.0	Tr				
		982.0 - 984.0 Similar to above.	4429	982.0	984.0	2.0	Tr				
		987.0 - 989.0 Similar to above.	4430	987.0	989.0	2.0	Tr				

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-22
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		1014.0 - 1016.0 Trace pyrite in silicified tuffs.	4431	1014.0	1016.0	2.0	Tr					
		1022.0 - 1027.0 Trace pyrite in tuffs.	4432	1022.0	1027.0	5.0	Tr					
		1027.0 - 1032.0 Same as above.	4433	1027.0	1032.0	5.0	Tr					
		1066.0 - 1070.0 Trace cubic pyrite in tuffs.	4434	1066.0	1070.0	4.0	Tr					
		1087.0 - 1089.0 Trace pyrite in tuffs.	4435	1087.0	1089.0	2.0	Tr					
		1096.0 - 1099.0 Trace pyrite in tuffs.	4436	1096.0	1099.0	3.0	Tr					
		1136.0 - 1138.0 Trace pyrite in silicified tuffs.	4437	1136.0	1138.0	2.0	Tr					
		1175.0 - 1178.0 Trace pyrite in silicified tuffs with 10% random quartz veins.	4438	1175.0	1178.0	3.0	0.12					
1187.0		END OF HOLE.										
		Core stored at Abitibi Resources, Val d'Or.										
			4483	1171.5	1175.0	3.5	0.01					
			4484	1178.0	1181.0	3.0	Tr					
			4485	1181.0	1184.0	3.0	Tr					
			4486	1184.0	1187.0	3.0	Tr					

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
REÇU
13 AOUT 1986
VAL D'OR
MINES

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES	
LATITUDE: 20 + 00 N	LONGITUDE: 100 + 00 W
ÉLÉVATION:	AZIMUTH: 180°
INCLINAISON/DIP: -75°	TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
	CONTRACTOR : Forages J.P. Bérubé Inc.
LONGUEUR/LENGTH: 1017.0'	DIMENSION DE LA CAROTTE/CORE SIZE: BQ
OBJECTIF/PURPOSE: Intersect geologically presumed shear zone and porphyritic rocks.	SYSTEME DE MESURES/SYSTEM OF MEASURES: IMPERIAL
TESTS 200' : -67° ; 400' : -56° ; 600' : -43° ; 800' : -31 1/2° ; 1000' : -29°	

SONDAGE No:
HOLE No: MA-85-23

PROPRIÉTÉ / PROPERTY: BEVCON - BUFFADISON
Louvicourt Twp. Range VIII Lot 39
CLAIM NO: C-5181-2
SECTION: L 100 W
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
DATE: December 1985
COMMENCE/STARTED: December 1985
TERMINÉ/COMPLETED: December 1985

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	116.0	OVERBURDEN										
116.0	123.6	INTERMEDIATE VOLCANIC Pale grey; fine grained; foliated at 45° to CA; lightly chloritized; trace pyrite.										
		117.0 - 119.0 Trace fine disseminated pyrite.	4439	117.0	119.0	2.0	Tr					
123.6	253.0	INTERMEDIATE PORPHYRITIC VOLCANIC Pale grey with 50% small white phenocrysts randomly oriented and of varying shapes; lightly foliated at 45° to CA; lightly chloritized; very little mineralization; some zones of silicification; occasional fine quartz or carbonate veinlet.										
253.0	262.3	INTERMEDIATE PORPHYRY DYKE Dark grey with 60% white, angular phenocrysts; trace pyrite; upper contact at 30° to CA.										
		257.0 - 259.0 Trace pyrite.	4440	257.0	259.0	2.0	Tr					
262.3	268.6	SHEARED INTERMEDIATE VOLCANIC Dark greenish - grey; sheared at 30° to CA; chloritized, not mineralized.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-23
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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		266.0 - 268.0 Sheared volcanic.	4441	266.0	268.0	2.0	Tr					
268.6	282.6	SHEARED INTERMEDIATE PORPHYRY DYKE										
		Similar to previous dyke but textures are less distinct ; shearing at 35° to CA; upper contact at 30° to CA; trace pyrite; quartz vein at lower contact.										
		279.0 - 281.0 Trace pyrite, pyrrhotite.	4442	279.0	281.0	2.0	Tr					
		281.0 - 282.6 Quartz vein at 30° to CA (281.5 - 282.6) barren.	4443	281.0	282.6	1.6	Tr					
282.6	518.0	INTERMEDIATE VOLCANIC										
		Medium grey, fine grained; schistose at 25° to CA; sericitized, trace pyrite, fairly uniform; occasional fine quartz & carbonate veinlet.										
		330.0 - 333.0 Trace pyrite, pyrrhotite.	4444	330.0	333.0	3.0	Tr					
		342.0 - 343.4 Quartz vein at 45° to CA (342.4 - 343.2) barren; trace pyrite in volcanics.	4445	342.0	343.4	1.4	Tr					
		356.0 - 357.0 Ground core.										
		368.5 - 371.5 Shear zone; core broken & sheared at 80° to CA; trace pyrite, pyrrhotite	4446	368.5	371.5	3.0	Tr					
		375.5 - 375.5 Broken, ground & muddy core.										
		382.0 - 387.0 Trace pyrite, pyrrhotite.	4447	382.0	387.0	5.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: MA-85-23
HOLE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		444.0 - 445.0 Broken, ground core.										
		495.5 - 496.5 Brecciated section.										
518.0	751.0	MAFIC TUFFS & VOLCANICS										
		Series of dark grey, fine to medium tuffs & volcanics distinguished from previous unit by greater degree of alteration, i.e. chloritization, greater amount of quartz veining & shearing; trace pyrite in places, folded quartz veinlets.										
		517.0 - 519.0 Contact zone ? gradational, trace pyrite.	4448	517.0	519.0	2.0	Tr					
		577.0 - 582.0 Trace pyrite in sheared & sericitized & carbonated tuffaceous unit.	4449	577.0	582.0	5.0	Tr					
		582.0 - 586.0 Similar to above.	4450	582.0	586.0	4.0	Tr					
		586.0 - 588.0 80% random quartz veins; trace pyrite.	4451	586.0	588.0	2.0	Tr					
		588.0 Begin to notice epidote alteration.										
		624.0 - 625.5 Shear zone; highly sheared at 80° to CA; some muddy seams; trace pyrite.	4452	624.0	625.5	1.5	Tr					
		625.5 - 700.0 Rocks are highly chloritized.										
		636.0 - 638.0 Trace cubic pyrite.	4453	636.0	638.0	2.0	Tr					
		638.0 - 643.0 Trace cubic pyrite.	4454	638.0	643.0	3.0	Tr					

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SONDAGE no:
HOLE no: MA-85-23
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		667.0 - 672.0 Several quartz veins at steep angles to CA (669.6 - 670.0) (671.3 - 671.5)	4455	667.0	672.0	5.0	Tr					
		677.0 - 682.0 Trace pyrite in small quartz vein (678.0 - 678.2) at 50° to CA; rest is highly altered lava.	4456	677.0	682.0	5.0	Tr					
		700.0 - 751.0 Alteration less intense.										
		747.0 - 751.0 Trace pyrite.	4457	747.0	751.0	4.0	Tr					
751.0	760.0	SHEAR ZONE Shearing at 90° to CA; some muddy sections; some talcose sections; chloritized, sericitized.										
		751.0 - 752.2 Talcose sheared.	4458	751.0	752.2	1.2	Tr					
		752.2 - 753.2 Quartz vein at 90° to CA (752.2 - 752.7); trace pyrite blebs at upper contact.	4459	752.2	753.2	1.0	Tr					
		753.2 - 757.0 Sheared.	4460	753.2	757.0	3.8	Tr					
		757.0 - 760.0 Sheared, talcose.	4461	757.0	760.0	3.0	Tr					
760.0	1017.0	MAFIC TUFFS & VOLCANICS As previously described.										
		760.0 - 780.0 Highly chloritized; lightly sheared at 80° to CA; 20% fine quartz - carbonate veinlets; trace pyrite.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: HOLE no: MA-85-23

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		760.0 - 765.0 Lightly sheared.	4462	760.0	765.0	5.0	Tr					
		770.0 - 775.0 Trace pyrite.	4463	770.0	775.0	5.0	Tr					
		782.0 - 787.0 Trace pyrite.	4464	782.0	787.0	5.0	Tr					
		780.0 - 917.0 Less altered & more massive.										
		792.0 - 797.0 Trace pyrite.	4465	792.0	797.0	5.0	Tr					
		797.0 - 802.0 Trace pyrite.	4466	797.0	802.0	5.0	Tr					
		802.0 - 807.0 Trace pyrite, silicified.	4467	802.0	807.0	5.0	Tr					
		807.0 - 812.0 Trace pyrite, silicified.	4468	807.0	812.0	5.0	Tr					
		812.0 - 817.0 Trace pyrite, pyrrhotite.	4469	812.0	817.0	5.0	Tr					
		817.0 - 822.0 Trace pyrite, pyrrhotite.	4470	817.0	822.0	5.0	Tr					
		822.0 - 824.5 Trace pyrite.	4471	822.0	824.5	2.5	0.01					
		824.5 - 826.0 Quartz vein at 80° to CA; chlorite; barren.	4472	824.5	826.0	1.5	0.01					
		832.0 - 833.3 Quartz vein along CA; carbonate, chlorite, trace pyrite; sheared upper contact.	4473	832.0	833.3	1.3	Tr					
		877.0 3" ground core.										
		900.0 Folded fine quartz veins.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: MA-85-23
HOLE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		903.0 - 908.0 Trace pyrite associated with quartz veining.	4474	903.0	908.0	5.0	Tr					
		917.0 - 1017.0 Chloritized & sheared - numerous quartz veins.										
		925.5 - 926.5 Quartz vein at 70° to CA (925.9 - 926.2) carbonate, barren; sheared upper contact.	4475	925.5	926.5	1.0	Tr					
		926.5 - 931.5 Trace pyrite in sheared tuff.	4476	926.5	931.5	5.0	Tr					
		953.0 - 954.2 Quartz vein at 90° to CA; sheared upper contact; chlorite, barren.	4477	953.0	954.2	1.2	Tr					
		957.0 - 962.0 Sheared tuff; 20% quartz veins (6" or less) fractured & barren.	4478	957.0	962.0	5.0	Tr					
		981.0 - 983.5 Quartz vein at 70° to CA (982.3 - 983.3) chlorite barren; trace pyrite in silicified rocks above vein.	4479	981.0	983.5	2.5	Tr					
		994.5 - 996.0 Several pyrite blebs in silicified zone.	4480	994.5	996.0	1.5	Tr					
		1007.0 - 1012.0 Several pyrite blebs.	4481	1007.0	1012.0	5.0	Tr					
		1012.0 - 1017.0 Quartz vein at 70° to CA (1012.0 - 1012.5) tourmaline, carbonate, barren; rest of split has trace pyrite.	4482	1012.0	1017.0	5.0	Tr					
1017.0		END OF HOLE.										
		Core stored at Abitibi Resources, Val d'Or.										

MINISTÈRE DE L'ÉNERGIE ET DES RESSOURCES
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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-24

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES

LATITUDE: L108W LONGITUDE: 45+00 S

ELEVATION: AZIMUTH: 180°

INCLINAISON/DIP: -70° TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE

CONTRACTOR : Forages J.P. Bérubé Inc.

LONGUEUR/LENGTH: 1117.0' DIMENSION DE LA CAROTTE/CORE SIZE: BQ

OBJECTIF/PURPOSE: Intersect previously drilled gold zone at depth

SYSTEME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 200' : -61° ; 400' : -57° ; 600' : -52 1/2° ; 800' : -53 1/2° ; 1100' : -55°

PROPRIÉTÉ / PROPERTY BEVCON-BUFFADISON

LOUVICOURT TWP RANGE VII LOT 38

CLAIM NO: 181567-2

SECTION: L108W

DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.

DATE: December 1985

COMMENCE/STARTED: December 1985

TERMINÉ/COMPLETED: December 1985

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
0	12.0	OVERBURDEN										
12.0	79.0	ANDESITE Dark grey, fine grained; generally massive; homogeneous; vesicular in places - vesicles are often elongated at 45° to CA; occasional trace pyrite; chloritized; occasional fine quartz vein.										
		37.0 - 38.0 Quartz vein at 45° to CA (37.1 - 37.3) trace pyrite.	4487	37.0	38.0	1.0	Tr					
		47.5 - 48.5 Quartz vein at 50° to CA (48.1- 48.3) trace pyrite.	4488	47.5	48.5	1.0	Tr					
		71.0 - 72.0 15% random quartz veins (1" or less) trace cubic pyrite.	4489	71.0	72.0	1.0	Tr					
79.0	178.0	MAFIC TUFF Dark greyish - green matrix with fine fragments, generally elongated at 45° to CA, slightly banded; chloritized, traces pyrite; quartz- carbonate veining.										
		86.0 - 91.0 Trace pyrite in disseminated cubes	4490	86.0	91.0	5.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		91.0 - 92.0 Trace pyrite associated with random quartz - carbonate.	4491	91.0	92.0	1.0	Tr					
		100.0 - 101.0 Trace pyrite associated with random quartz - carbonate veining.	4492	100.0	101.0	1.0	Tr					
		117.0 - 120.0 Similar to above.	4493	117.0	120.0	3.0	Tr					
		122.3 - 122.9 Broken & sheared rock.										
		125.0 - 128.0 Trace pyrite associated with zone of random quartz veining & epidote alteration.	4494	125.0	128.0	3.0	Tr					
		135.0 - 137.0 70% broken rock; talcose in places.										
		153.0 - 155.0 Trace pyrite associated in quartz veining at 45° to CA; in sheared tuff.	4495	153.0	155.0	2.0	Tr					
178.0	310.0	MAFIC TUFFS & FLOWS Series of interlayered basaltic to andesitic flows & tuffs similar to previously described units.										
		266.0 - 300.0 More noticeable epidote alteration.										
		306.0 - 310.0 Small white phenocrysts (60%) remarkable.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: HOLE no: MA-85-24

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
310.0	360.0	SHEARED ANDESITE (MAFIC TUFFS ?) Dark greenish - grey; highly sheared at 50° to CA; chloritized; epidotized; 20% fine quartz & carbonate stringers; traces pyrite.									
		310.0 - 315.0 Sheared; barren 20% quartz	4496	310.0	315.0	5.0	Tr				
		315.0 - 320.0 Similar to above.	4497	315.0	320.0	5.0	Tr				
		320.0 - 325.0 Trace pyrite disseminated & in fine stringers.	4498	320.0	325.0	5.0	Tr				
		330.0 - 332.0 Crumbly, muddy core.									
		327.0 - 340.0 Trace hematite staining.									
		337.0 - 342.0 Hematite staining, trace pyrite.	4499	337.0	342.0	5.0	Tr				
		355.0 - 360.0 Trace pyrite.	4500	355.0	360.0	5.0	Tr				
360.0	396.0	BRECCIATED INTERMEDIATE AGGLOMERATE Dark greenish - grey matrix with numerous large (often several inches wide) felsic fragments; elongated along schistosity (70° to CA) sericitized; somewhat sheared; blebs pyrite throughout.									
		360.0 - 365.0 1% disseminated pyrite blebs.	4934	360.0	365.0	5.0	0.03				
		365.0 - 370.0 Trace pyrite blebs, small (1/2") muddy section.	4935	365.0	370.0	5.0	Tr				

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: MA-85-24
HOLE no:

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		370.0 - 375.0 Trace pyrite.	4936	370.0	375.0	5.0	Tr					
		375.0 - 380.0 Trace pyrite.	4937	375.0	380.0	5.0	Tr					
		380.0 - 385.0 Trace pyrite.	4938	380.0	385.0	5.0	Tr					
		385.0 - 390.0 Trace pyrite, more acidic (silicified ?).	4939	385.0	390.0	5.0	Tr					
		390.0 - 395.0 Trace pyrite.	4940	390.0	395.0	5.0	Tr					
		395.0 - 396.0 Trace pyrite.	4941	395.0	396.0	1.0	Tr					
396.0	457.5	RHYOLITE Pale cream to pale grey; aphanitic massive; brecciated in places; fine quartz & tourmaline veinlets common; little pyrite mineralization (could be highly silicified phase of agglomerate, some relict textures).										
		396.0 - 401.0 Remnant agglomeratic textures; trace pyrite.	4942	401.0	406.0	5.0	Tr					
		401.0 - 406.0 Pale cream; barren.	4943	401.0	406.0	5.0	Tr					
		416.0 - 421.0 Trace pyrite.	4944	416.0	421.0	5.0	Tr					
		421.0 - 423.0 Trace pyrite in fine carbonate-tourmaline vein (422.3 - 422.5) at 90° to CA.	4945	421.0	423.0	2.0	Tr					
		427.0 - 429.0 Trace fine disseminated pyrite	4946	427.0	429.0	2.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: HOLE no: MA-85-24

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		450.0 - 453.0 1-3% disseminated pyrite & fine seams.	4947	450.0	453.0	3.0	0.31					
		453.0 - 457.0 Trace pyrite; 50% broken core.	4948	453.0	457.0	4.0	Tr					
457.5	811.0	INTERMEDIATE LAVA (DACITIC) Medium grey; fine to medium grained; porphyritic in places; silicified in places; generally traces pyrite; highly altered rocks.										
		463.0 - 467.0 Trace pyrite.	4949	463.0	467.0	4.0	Tr					
	*	467.0 - 468.0 Massive pyrite (467.4 - 467.9) 90° to CA.	4950	467.0	468.0	1.0	0.13					
		468.0 - 471.0 Trace pyrite.	4951	468.0	471.0	3.0	Tr					
		490.0 - 491.5 Carbonate - tourmaline veining at 90° to CA (537.0 - 538.0), barren.	4952	490.0	491.5	1.5	Tr					
		537.0 - 539.0 Quartz-carbonate veining at 90° to CA (537.0 - 538.0), barren.	4953	537.0	539.0	2.0	Tr					
		567.0 - 572.0 Trace pyrite associated with random quartz-carbonate-tourmaline veining (568.0 - 572.0)	4954	567.0	572.0	5.0	Tr					
		572.0 - 577.0 Trace pyrite.	4955	572.0	577.0	5.0	Tr					
		602.0 - 607.0 Trace pyrite.	4956	602.0	607.0	5.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		638.0 - 639.5 Quartz vein at 90° to CA (638.4 - 639.1), carbonate, barren.	4957	638.0	639.5	1.5	Tr					
		649.0 - 651.0 Quartz vein at 80° to CA (650.5 - 650.7) barren; epidote in rest of split.	4958	649.0	651.0	2.0	Tr					
		683.0 - 686.0 Silicified zone, trace pyrite.	4959	683.0	686.0	3.0	Tr					
		689.0 - 690.0 Fine quartz vein at 70° to CA (689.2) (5mm wide), bleb pyrite; trace pyrite in silicified dacite.	496.0	689.0	690.0	1.0	Tr					
		699.0 - 700.0 Quartz vein at 90° to CA (699.7 - 699.8) tourmaline, trace pyrite; dacite is barren.	4961	699.0	700.0	1.0	Tr					
		706.0 - 707.0 80% quartz-tourmaline veining at 80° to CA; barren.	4962	706.0	707.0	1.0	Tr					
		738.0 - 739.5 Core fractured at low angles to CA.										
		764.2 - 768.2 20% quartz veins at 50-60° to CA; 6" & less, traces pyrite.	4963	764.2	768.2	4.0	Tr					
		776.0 - 778.0 Quartz vein at 90° to CA; 776.2 - 777.0; tourmaline, carbonate, trace pyrite, chalcopyrite; dacite/andesite has trace pyrite.	4964	776.0	778.0	2.0	Tr					
		778.0 - 790.5 Porphyritic andesite/dacite.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-24
PAGE: 7 DE/OF 9

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS				
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %	
		794.0 - 796.0 Trace pyrite, chalcopyrite associated with fine quartz-carbonate veining	4965	794.0	796.0	2.0	Tr				
		804.0 - 807.0 1% pyrite; disseminated & in fine seams in dacite.	4966	804.0	807.0	3.0	Tr				
		811.0 - 812.0 Quartz vein at 80° to CA (811.2 - 811.7) tourmaline at contacts; barren.	4967	811.0	812.0	1.0	Tr				
811.0	1117.0	DIORITE Medium grey;distinctive blue quartz; medium grained; altered; chloritized.									
		838.0 - 839.0 Quartz vein at 90° to CA (838.3 - 838.5) barren, barren diorite.	4968	838.0	839.0	1.0	Tr				
		842.0 - 844.0 Quartz vein at 80° to CA (842.6 - 842.7) several blebs pyrite at contacts; diorite has trace pyrite.	4969	842.0	844.0	2.0	Tr				
		847.0 - 849.0 1% disseminated pyrite blebs in diorite.	4970	847.0	849.0	2.0	Tr				
		849.0 - 850.5 Quartz vein at 90° to CA (849.6 - 850.0) barren.	4971	849.0	850.5	1.5	Tr				
		873.0 - 874.0 Quartz vein at 90° to CA (873.7 - 873.8) bleb pyrite at lower contact; diorite is silicified.	4972	873.0	874.0	1.0	Tr				

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: MA-85-24
HOLE no:

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		887.5 - 888.5 Quartz vein at 90° to CA	4973	887.5	888.5	1.0	Tr					
		(887.8 - 888.4) tourmaline, barren.										
		918.0 - 920.0 Small quartz vein at 90° to	4974	918.0	920.0	2.0	Tr					
		CA (918.5) (10mm wide) trace chalcopyrite;										
		diorite is silicified.										
		938.0 - 939.0 Quartz vein at 20° to CA	4975	938.0	939.0	1.0	Tr					
		(938.0 - 938.4) carbonate, 1% pyrite blebs;										
		diorite is silicified with trace pyrite.										
		939.0 - 942.0 Trace pyrite in diorite.	4976	939.0	942.0	3.0	0.01					
		957.0 - 1117.0 Silicified zone; rocks are										
		hard, aphanitic & cherty in appearance.										
		992.0 - 993.0 Silicified zone (diorite).	4977	992.0	993.0	1.0	Tr					
		993.0 - 994.0 Quartz vein at 80° to CA	4978	993.0	994.0	1.0	0.01					
		(993.4 - 993.5) large chunk pyrite.										
		994.0 - 995.0 Silicified zone (diorite).	4979	994.0	995.0	1.0	Tr					
		1002.0 - 1003.7 Shear zone at 40° to CA	4980	1002.0	1003.7	1.7	Tr					
		1026.0 - 1028.0 Quartz vein at 90° to CA	4981	1026.0	1028.0	2.0	Tr					
		(1026.3 - 1026.6) trace pyrite; trace pyrite										
		in silicified diorite at lower contact.										
		Check split	2062	1028.0	1032.0	4.0	Tr					
		Check split	2063	1032.0	1036.0	4.0	0.01					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: MA-85-24
HOLE no:
PAGE: 9 DE/OF 9

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		1036.0 - 1037.0 Quartz vein at 90° to CA	4982	1036.0	1037.0	1.0	0.30					
		(1036.4 - 1036.9) large blebs pyrite at upper	2064	1037.0	1042.0	5.0	Tr					
		contact										
		1055.0 - 1056.0 Trace pyrite associated with	4983	1055.0	1056.0	1.0	Tr					
		fine quartz veinlet at 1055.5 (80° to CA)										
		(10mm wide).										
		1061.0 - 1062.0 Similar to above except	4984	1061.0	1062.0	1.0	0.01					
		veinlet at 1061.4										
		1067.0 - 1068.0 Quartz vein at 80° to CA	4985	1067.0	1068.0	1.0	Tr					
		(1067.4 - 1067.5) 5% fine pyrite in veinlet;										
		Diorite is silicified.										
		1079.0 - 1080.0 Quartz vein along CA	4986	1079.0	1080.0	1.0	Tr					
		(1079.4 - 1079.8) 5% fine pyrite in vuggy										
		vein; diorite is silicified.										
		1099.0 - 1100.0 Pyrite bleb associated with	4987	1099.0	1100.0	1.0	0.04					
		fine quartz veinlet.										
1117.0		END OF HOLE.										
		Hole makes water.										
		Core stored at Abitibi Resources, Val d'Or.										
		1/4 split	2059	467.0	468.0	1.0	0.05					
		New split	2060	445.0	450.0	5.0	Tr					

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-25

COORDONNEES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 12+50N LONGITUDE: L100W

ÉLEVATION: AZIMUTH: 180°

INCLINAISON/DIP: -83°

LONGUEUR/LENGTH: 1089.0'

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR: Forages J.P. Bérubé Inc.

DIMENSION DE LA CAROTTE/CORE SIZE: BQ

OBJECTIF/PURPOSE: Define "shear zone" direction.

SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 200' : -82 1/2° ; 400' : -66° ; 600' : -54° ; 800' : -44° ; 1089' lost

PROPRIETE / PROPERTY: BEVCON-BUFFADISON
LOUVICOURT TWP, RANGE VII LOT 39
CLAIM NO: C-5181-2
SECTION: L100W
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
DATE: December 1985
COMMENCE/STARTED: December 1985
TERMINÉ/COMPLETED: December 1985

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
0	120.0	OVERBURDEN.										
120.0	657.0	MAFIC TUFF Dark grey; fine-grained; banded bands often cronulated; sheared at 45° to CA; highly altered rocks, chloritized; numerous fine quartz-carbonate veinlets; not well mineralized.										
		163.0 - 164.0 Trace cubic pyrite associated with fine quartz veinlet.	6055	163.0	164.0	1.0	Tr					
		170.0 - 171.0 Random quartz veining with trace cubic pyrite.	6056	170.0	171.0	1.0	Tr					
		175.0 - 176.0 Trace cubic pyrite, associated with fine quartz veinlet.	6057	175.0	176.0	1.0	Tr					
		194.0 - 196.0 Trace cubic pyrite.	6058	194.0	196.0	2.0	Tr					
		196.0 - 201.0 Trace pyrite.	6059	196.0	201.0	5.0	Tr					
		233.0 - 235.0 Trace cubic pyrite.	6060	233.0	235.0	2.0	Tr					
		241.0 - 243.0 Trace cubic pyrite.	6061	241.0	243.0	2.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-25
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		256.0 - 258.0 30% random quartz with epidote & trace pyrite.	6062	256.0	258.0	2.0	Tr					
		276.0 - 278.5 Trace pyrite in silicified & epidotized rock.	6063	276.0	278.5	2.5	Tr					
		278.5 - 282.0 Several cubes pyrite.	6064	278.5	282.0	3.5	1.86					
		282.0 - 286.0 Trace pyrite, sheared.	2061	282.0	286.0	4.0	Tr					
		286.0 - 289.0 Trace pyrite in silicified zone.	6065	286.0	289.0	3.0	0.02					
		289.0 - 292.0 Trace pyrite in silicified zone & associated with fine quartz - carbonate veinlets.	6066	289.0	292.0	3.0	Tr					
		299.5 - 304.5 Trace pyrite in silicified zone.	6067	299.5	304.5	5.0	Tr					
		304.5 - 309.0 1% pyrite blebs in silicified zone	6068	304.5	309.0	4.5	Tr					
		327.0 - 332.0 Trace pyrite, pyrrhotite in silicified zone.	6069	327.0	332.0	5.0	Tr					
		342.0 - 347.0 40% random quartz veining; pink carbonate, epidote, trace pyrite.	6070	342.0	347.0	5.0	Tr					
		347.0 - 352.0 Quartz vein at 20° to CA (350.5-352.0) pink carbonate, epidote, trace pyrite.	6071	347.0	352.0	5.0	Tr					
		352.0 - 362.0 Broken & crumbled rock, mud seam at 351.0 - 352.0; shear zone ? Some quartz veining barren.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-25
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		374.0 - 375.0 Quartz vein at 90° to CA (374.0-374.5) barren.	6072	374.0	375.0	1.0	Tr					
		432.0 - 437.0 Trace pyrite in lightly sheared zone.	6073	432.0	437.0	5.0	Tr					
		437.0 - 442.0 Trace pyrite associated with fine quartz veins in lightly sheared, chloritized zone.	6074	437.0	442.0	5.0	Tr					
		457.0 - 479.5 Core sheared at 40° to CA.										
		479.5 - 481.5 Quartz vein at 40° to CA (479.6-481.2) carbonate, barren.	6075	479.5	481.5	2.0	Tr					
		481.5 - 486.5 Sheared tuff.	6076	481.5	486.5	5.0	Tr					
		486.5 - 488.0 Quartz vein at 90° to CA (486.8-487.9) barren.	6077	486.5	488.0	1.5	Tr					
		492.0 - 505.0 Silicified, epidotized zone.										
		500.0 - 505.0 Silicified.	6078	500.0	505.0	5.0	Tr					
		505.0 - 510.0 Trace pyrite.	6079	505.0	510.0	5.0	Tr					
		540.0 - 541.0 Quartz vein at 70° to CA (540.2-540.9) carbonate, barren.	6080	540.0	541.0	1.0	Tr					
		578.0 - 583.0 Trace cubic pyrite.	6081	578.0	583.0	5.0	Tr					
		600.0 - 657.0 Agglomerate mafic.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-25
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		597.0 - 602.0 Trace pyrite in agglomeratic zone	6082	597.0	602.0	5.0	Tr					
		613.0 - 615.0 Trace pyrite, quartz vein at 80° to CA (613.8 - 614.0), barren.	6083	613.0	615.0	2.0	Tr					
657.0	675.0	SHEAR ZONE Core sheared at 60° to CA; trace pyrite, some quartz veining.										
		657.0 - 662.0 Sheared; ground core, 660.0-660.6, ground quartz vein.	6084	657.0	662.0	5.0	Tr					
		662.0 - 667.0 Sheared, silicified.	6085	662.0	667.0	5.0	Tr					
		667.0 - 669.0 Sheared, silicified.	6086	667.0	669.0	2.0	Tr					
		669.0 - 670.5 Quartz vein at 60° to CA; trace pyrite (669.0 - 671.2).	6087	669.0	670.5	1.5	0.01					
		670.5 - 675.0 Sheared.	6088	670.5	675.0	4.5	Tr					
675.0	710.0	MAFIC TUFF As previously described.										
		704.0 - 705.5 Silicified zone associated with fine quartz vein, barren.	6089	704.0	705.5	1.5	Tr					
		705.5 - 707.0 Quartz vein at 60° to CA (705.7 706.5) chlorite, tourmaline, carbonate, barren.	6090	705.5	707.0	1.5	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-25
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		707.0 - 709.0 Trace pyrite associated with fine quartz veinlet in lightly sheared zone.	6091	707.0	709.0	2.0	Tr					
710.0	1087.0	MAFIC TUFF & AGGLOMERATE 10% quartz-carbonate fragments.										
		841.0 - 845.0 3% pyrite in silicified zone with some small (2" or less) quartz vein at 70° to CA.	6092	841.0	845.0	4.0	0.06					
		845.0 - 850.0 Trace pyrite in silicified & lightly sheared zone.	6093	845.0	850.0	5.0	Tr					
		858.0 - 860.5 10% small quartz vein (2" or less) at steep angles to CA; barren.	6094	858.0	860.5	2.5	Tr					
		872.0 - 873.0 Quartz vein at 90° to CA (872.5-872.7) barren.	6095	872.0	873.0	1.0	Tr					
		873.0 - 896.0 More massive fine grained unit - probably flow unit.										
		915.5 - 917.0 Trace cubic pyrite.	6096	915.5	917.0	1.5	Tr					
		922.0 - 925.0 Trace pyrite in sheared zone, pyrite associated with fine quartz patches.	6097	922.0	925.0	3.0	Tr					
		959.0 - 960.0 Quartz vein at 90° to CA, tourmaline, barren.	6098	959.0	960.0	1.0	Tr					
		971.0 - 995.0 Core sheared at 80° to CA.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: HOLE no: MA-85-25

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		972.0 - 977.0 Sheared, 10% fine quartz veinlets.	6099	972.0	977.0	5.0	Tr					
		1014.0 - 1017.0 Quartz vein at 80° to CA (1016.4 - 1017.0) orange carbonate, barren; rest of split is silicified.	6100	1014.0	1017.0	3.0	Tr					
		1042.0 - 1071.0 Core sheared at 80° to CA.										
		1042.0 - 1047.0 Trace pyrite.	6101	1042.0	1047.0	5.0	Tr					
		1057.0 - 1062.0 Trace pyrite.	6102	1057.0	1062.0	5.0	Tr					
		1067.0 - 1071.0 Trace pyrite including one large cube (10mm).	6103	1067.0	1071.0	4.0	Tr					
		1083.6 - 1084.6 Quartz vein at 70° to CA (1083.6 - 1084.0) barren.	6547	1083.6	1084.6	1.0	Tr					
		1084.6 - 1089.0 Silicified, 10% fine quartz vein.	6548	1084.6	1089.0	4.4	Tr					
1089.0		END OF HOLE										
		Core stored at Abitibi Resources, Val d'Or.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-26

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 0+55 S LONGITUDE: L56W
ÉLÉVATION: AZIMUTH: 360°
INCLINAISON/DIP: -75°
LONGUEUR/LENGTH: 1001.0'

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé Inc.
DIMENSION DE LA CAROTTE/CORE SIZE: BQ

PROPRIÉTÉ / PROPERTY: BEVCON - BUFFADISON
LOUVICOURT TWP RANGE VII LOT 51
CLAIM NO: CM 357
SECTION: L56W
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
DATE: December 1985
COMMENCE/STARTED: December 1985
TERMINÉ/COMPLETED: December 1985

OBJECTIF/PURPOSE: Intersect quartz veins south of shear zone.
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 200' : -76 1/2° ; 400' : -71° ; 600' : no good ; 800' -76 1/2° ; 1001' L -77° corr.

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH	Au oz/ton	Ag	Cu %	Zn %		
						(ft)						
0	50.0	OVERBURDEN										
50.0	52.0	BOULDER FRAGMENTS										
52.0	108.0	MAFIC TUFF Dark green; fine grained; 20% small white fragments; sheared at low angles to CA; chloritized; numerous fine quartz carbonate veins & veinlets; mineralized with pyrite.										
		57.0 - 58.0 Trace pyrite in fine quartz-carbonate veinlet.	4988	57.0	58.0	1.0	Tr					
		77.0 - 82.0 Trace disseminated pyrite blebs	4989	77.0	82.0	5.0	Tr					
		87.0 - 90.0 1% pyrite blebs associated with carbonate patches.	4990	87.0	90.0	3.0	Tr					
		90.0 - 95.0 5% pyrite cubes.	4991	90.0	95.0	5.0	Tr					
		95.0 - 100.0 3% pyrite cubes; broken core at 97.0 (6") ; 99.5 (4")	4992	95.0	100.0	5.0	Tr					
		100.0 - 105.0 3-5% pyrite cubes.	4993	100.0	105.0	5.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no: MA-85-26
HOLE no:

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		105.0 - 108.0 1-3% disseminated pyrite.	4994	105.0	108.0	3.0	Tr					
108.0	116.0	SHEAR ZONE Ground, broken core.										
		108.0 - 113.0 Ground & broken core, trace pyrite.	4995	108.0	113.0	5.0	Tr					
		113.0 - 116.0 Same as above.	4996	113.0	116.0	3.0	Tr					
116.0	164.0	MAFIC TUFF As previously described.										
		116.0 - 121.0 5% pyrite cubes.	4997	116.0	121.0	5.0	Tr					
		121.0 - 124.0 Random quartz veining (121.6 - 123.7); chlorite, carbonate, trace pyrite.	4998	121.0	124.0	3.0	0.01					
		124.0 - 129.0 Trace cubic pyrite.	4999	124.0	129.0	5.0	Tr					
		129.0 - 133.0 Trace cubic pyrite.	5000	129.0	133.0	4.0	Tr					
		155.0 - 159.0 Fine quartz vein along CA (1/2" wide) trace pyrite; some broken core.	6501	155.0	159.0	4.0	Tr					
		162.0 - 164.0 Same as above.	6502	162.0	164.0	2.0	Tr					
164.0	1001.0	ANDESITE Fine grained, massive unit medium to dark grey; fairly homogeneous, not well mineralized.										

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SONDAGE no: MA-85-26
HOLE no:
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au	Ag	Cu %	Zn %		
		179.0 - 180.0 Quartz vein at 30° to CA (179.2 - 179.6); tourmaline, carbonate; barren.	6503	179.0	180.0	1.0	Tr					
		209.0 - 211.0 Random quartz veining; tourmaline, carbonate, trace pyrite.	6504	209.0	211.0	2.0	Tr					
		219.0 - 221.0 Core fractured & broken along CA - Shear zone ?										
		236.0 - 241.0 Trace pyrite, fine disseminated	6505	236.0	241.0	5.0	Tr					
		250.0 - 255.0 1% pyrite associated with random quartz veining.	6506	250.0	255.0	5.0	Tr					
		269.5 - 270.5 Trace pyrite in fine quartz veinlets.	6507	269.5	270.5	1.0	Tr					
		270.5 - 271.5 Sheared andesite.	6508	270.5	271.5	1.0	0.01					
		271.5 - 273.0 Quartz vein at 45° to CA (272.0 - 272.6) 1% fine disseminated pyrite; andesite is sheared with 1% pyrite.	6509	271.5	273.0	1.5	Tr					
		273.0 - 277.0 5% pyrite disseminated & in fine bands.	6510	273.0	277.0	4.0	Tr					
		294.5 - 295.5 Quartz vein at 40° to CA (294.6 - 295.0) trace cubic pyrite.	6511	294.5	295.5	1.0	Tr					
		300.0 - 302.0 Trace disseminated cubic pyrite.	6512	300.0	302.0	2.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-26
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		302.0 - 357.0 Dacitic phase - silicified andesite ?										
		317.0 - 321.0 Trace cubic pyrite.	6513	317.0	321.0	4.0	Tr					
		321.0 - 326.0 Trace fine disseminated pyrite.	6514	321.0	326.0	5.0	Tr					
		357.0 - 359.0 Trace pyrite in andesite.	6515	357.0	359.0	2.0	Tr					
		397.0 - 402.0 Trace pyrrhotite in silicified andesite.	6516	396.0	402.0	5.0	Tr					
		447.0 - 452.0 Trace pyrrhotite in silicified zone.	6517	447.0	452.0	5.0	Tr					
		452.0 - 457.0 Trace pyrite, pyrrhotite.	6518	452.0	457.0	5.0	Tr					
		457.0 - 462.0 Trace pyrrhotite.	6519	457.0	462.0	5.0	Tr					
		462.0 - 467.0 1-3 % pyrrhotite, pyrite.	6520	462.0	467.0	5.0	Tr					
		467.0 - 472.0 1-3% pyrrhotite, pyrite.	6521	467.0	472.0	5.0	Tr					
		472.0 - 477.0 Trace pyrrhotite.	6522	472.0	477.0	5.0	Tr					
		477.0 - 482.0 Trace pyrrhotite, fine quartz veins with trace pyrite.	6523	477.0	482.0	5.0	Tr					
		547.0 - 552.0 Trace pyrrhotite (magnetite ?)	6524	547.0	552.0	5.0	Tr					
		572.0 - 577.0 Trace pyrrhotite, magnetite, pyrite in silicified zone.	6525	572.0	577.0	5.0	Tr					

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SONDAGE no:
HOLE no: MA-85-26
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		577.0 - 582.0 Same as above.	6526	577.0	582.0	5.0	Tr					
		616.0 - 618.0 Quartz veining at 45° to CA (40%) trace pyrite.	6527	616.0	618.0	2.0	Tr					
		633.0 - 634.0 Quartz-carbonate veining along CA; trace pyrite.	6528	633.0	634.0	1.0	Tr					
		652.5 - 654.0 30% quartz veins at 45° to CA (4" or less) trace pyrite.	6529	652.5	654.0	1.5	Tr					
		657.0 - 659.5 20% quartz-carbonate veining at random angles to CA; trace pyrite.	6530	657.0	659.5	2.5	Tr					
		673.5 - 676.0 20% quartz veining (2" or less) at steep angles to CA; up to 1% cubic pyrite in veinlets.	6531	673.5	676.0	2.5	Tr					
		705.0 - 709.0 Trace to 1% disseminated pyrite in silicified zone.	6532	705.0	709.0	4.0	Tr					
		712.0 - 714.0 Sheared andesite at 45° to CA pebbles of quartz vein in middle of split, barren.	6533	712.0	714.0	2.0	Tr					
		827.0 - 829.0 Trace pyrite.	6534	827.0	829.0	2.0	Tr					
		853.0 - 855.0 Quartz vein at 60° to CA (853.5 - 853.7), trace pyrite, andesite lightly sheared.	6535	853.0	855.0	2.0	Tr					
		877.0 - 879.5 10% fine quartz veinlets in silicified andesite.	6536	877.0	879.5	1.5	Tr					

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SONDAGE no: MA-85-26
HOLE no:

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		879.5 - 881.0 70% random quartz veining with trace pyrite; andesite is silicified.	6537	879.5	881.0	1.5	Tr					
		881.0 - 885.0 10% random, fine quartz veinlets (1/2" or less); trace pyrite.	6538	881.0	885.0	4.0	Tr					
		885.0 - 886.0 Quartz vein at 50° to CA; 1% pyrite.	6539	885.0	886.0	1.0	0.09					
		886.0 - 891.0 Silicified andesite, trace pyrite.	6540	886.0	891.0	5.0	Tr					
		891.0 - 894.0 50% random quartz-tourmaline veining, 1% disseminated pyrite.	6541	891.0	894.0	3.0	Tr					
		894.0 - 896.0 Silicified andesite, trace pyrite.	6542	894.0	896.0	2.0	Tr					
		926.0 - 929.0 20% fine quartz-carbonate veinlets at 65° to CA; trace pyrite.	6543	926.0	929.0	3.0	Tr					
		934.5 - 938.0 20% random quartz-carbonate veining in silicified andesite, 1% pyrite.	6544	934.5	938.0	3.5	Tr					
		938.0 - 941.0 Quartz vein at 50° to CA (940.1 - 940.4) 1% pyrite at contacts; silicified andesite.	6545	938.0	941.0	3.0	Tr					
		955.0 - 956.5 Quartz-tourmaline veining at 50° to CA (955.4 - 955.8) 1% pyrite; andesite has trace pyrite.	6546	955.0	956.5	1.5	Tr					

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SONDAGE no:
HOLE no: MA-85-26
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/ton	Ag	Cu %	Zn %		
		980.0 - 990.0 Porphyritic andesite.										
1001.0		END OF HOLE.										
		Core stored at Abitibi Resources, Val d'Or.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-27

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 7 + 00 N LONGITUDE: L 96 W
ÉLÉVATION: AZIMUTH: 360°
INCLINAISON/DIP: -76°
LONGUEUR/LENGTH: 393.0' (lost)
OBJECTIF/PURPOSE: Intersect quartz veins along "shear" zone.
TESTS 200' : -72 1/2°

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé Inc.
DIMENSION DE LA CAROTTE/CORE SIZE: BQ
SYSTEME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

PROPRIÉTÉ / PROPERTY: BEVCON-BUFFADISON
LOUVICOURT TWP, RANGE VIII LOT 40
CLAIM NO: A 48883
SECTION: L 96 + 00 W
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
DATE: December 1985,
COMMENCÉ/STARTED: December 1985
TERMINÉ/COMPLETED: December 1985

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au (oz/t)	Ag	Cu %	Zn %		
0	214.0	OVERBURDEN										
214.0	223.0	BOULDER FRAGMENTS										
223.0	341.0	DECAYED & WEATHERED ROCK Highly weathered, decomposed rock, yellow & red in color, muddy, often ground; semi-solid. 247.0 - 249.5 Quartz vein not weathered out.										
341.0	393.0	DIORITE PORPHYRY Dark grey; 60% small white phenocrysts; highly silicified mostly in patches, not mineralized massive. 362.0 - 367.0 Slightly sheared along CA, silicified.	6549	362.0	367.0	5.0	Tr					
393.0		END OF HOLE - lost Tried to ream casing though decayed rock but casing broke.										

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MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-28

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 7 + 00 N LONGITUDE: L 100 W
ÉLÉVATION: AZIMUTH: 360°
INCLINAISON/DIP: -76°
LONGUEUR/LENGTH: 997.0'

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé Inc.
DIMENSION DE LA CAROTTE/CORE SIZE: BQ

PROPRIÉTÉ / PROPERTY: BEVCON-BUFFADISON
LOUVICOURT TWP, RANGE VIII LOT 39
CLAIM NO: C 5181-2
SECTION: L 100 W
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
DATE: December 1985
COMMENCE/STARTED: December 1985
TERMINÉ/COMPLETED: December 1985

OBJECTIF/PURPOSE: Intersect quartz veins associated with shear zone.
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 400' : -83° ; 600' : -77 1/2° ; 800' : -85 1/2° ; 997.0' : -75°

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
0	213.0	OVERBURDEN										
213.0	987.0	MAFIC TUFF & AGGLOMERATE Dark grey, medium to coarse grained; numerous fragments visible; schistose (20° to CA) some silicified sections; fairly homogeneous, little mineralization, some quartz-carbonate veining.										
		213.0 - 217.0 Sheared & broken core.										
		347.0 - 362.0 Sheared & silicified zone - sheared at 20° to CA.										
		347.0 - 352.0	6104	347.0	352.0	5.0	Tr					
		431.5 - 435.5 Quartz veining (70%) at 20° to CA trace pyrite.	6105	431.5	435.5	4.0	Tr					
		435.5 - 440.5 10% fine quartz veins - random, trace pyrite.	6106	435.5	440.5	5.0	Tr					
		440.5 - 444.0 Silicified, 10% fine quartz veinlets; trace pyrite.	6107	440.5	444.0	3.5	Tr					
		444.0 - 448.0 Same as above.	6108	444.0	448.0	4.0	Tr					

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-28
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au (oz/t)	Ag	Cu %	Zn %		
		448.0 - 450.0 Quartz vein at 20° to CA; tourmaline, barren.	6109	448.0	450.0	2.0	Tr					
		467.0 - 472.0 Shear zone (468.0-469.0) at 20° to CA, trace pyrite.	6110	467.0	472.0	5.0	Tr					
		472.0 - 474.0 Shear zone at 20° to CA with 50% quartz veining, trace pyrite, broken core.	6111	472.0	474.0	2.0	Tr					
		535.0 - 540.0 Silicified zone with 20% quartz veining, concordant, trace pyrite.	6112	535.0	540.0	5.0	Tr					
		550.0 - 553.5 Ground & broken core.										
		612.0 - 616.0 Silicified zone with 10% fine quartz veinlets, random, trace pyrite.	6113	612.0	616.0	4.0	Tr					
		632.0 - 658.0 Sheared at 20° to CA, silicified, 10% fine quartz veinlets.										
		637.0 - 642.0 Sheared, silicified.	6114	637.0	642.0	5.0	Tr					
		652.0 - 657.0 Trace pyrite.	6115	652.0	657.0	5.0	Tr					
		684.0 - 687.0 Sheared, silicified, 30% random quartz-carbonate.	6116	684.0	687.0	3.0	Tr					
		687.0 - 690.0 Same as above.	6117	687.0	690.0	3.0	Tr					
		748.0 - 749.0 Quartz vein at 80° to CA (748.2 - 748.4) barren.	6118	748.0	749.0	1.0	Tr					

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SONDAGE no:
HOLE no: MA-85-28
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		750.0 - 770.0 More chloritized rocks, deeper green color.										
		818.0 - 819.7 Quartz vein at 80° to CA; chlorite, barren.	6119	818.0	819.7	1.7	Tr					
		906.5 - 917.0 Highly silicified, barren.										
		907.0 - 912.0 Silicified.	6120	907.0	912.0	5.0	Tr					
		947.0 - 949.0 30% random quartz veining; barren.	6121	947.0	949.0	2.0	Tr					
		961.0 - 966.0 Silicified, trace pyrite.	6122	961.0	966.0	5.0	0.01					
		966.0 - 969.0 Same as above.	6123	966.0	969.0	3.0	Tr					
		982.0 - 984.0 Quartz veinlet (982.9 - 983.1) 90° to CA; trace pyrite in tuff at upper contact.	6124	982.0	984.0	2.0	Tr					
987.0	997.0	PORPHYRITIC ANDESITE Dark grey, 60% small white phenocrysts; lightly sheared in places at 30° to CA, not mineralized.										
997.0		END OF HOLE										
		Hole makes water										
		Core stored at Abitibi Resources, Val d'Or.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-29

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 7+00 N LONGITUDE: L 104 W
ÉLÉVATION: AZIMUTH: 360°
INCLINAISON/DIP: -76°
LONGUEUR/LENGTH: 1003.0

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR : Forages J.P. Bérubé Inc.
DIMENSION DE LA CAROTTE/CORE SIZE: BQ

OBJECTIF/PURPOSE: Intersect quartz veins close to shear zone.
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 200' : -77 1/2° ; 400' : -81 1/2° ; 600' : -83° ; 800' : -76° ; 1000' : -77°

PROPRIÉTÉ / PROPERTY: BEVCON - BUFFADISON
LOUVICOURT TWP, RANGE VIII LOT 39
CLAIM NO: C-5181-3
SECTION: L 104 W
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
DATE: December 1985
COMMENCE/STARTED: December 1985
TERMINÉ/COMPLETED: December 1985

FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
0	187.0	OVERBURDEN										
187.0	467.0	DIORITE PORPHYRY Pale grey; 50% small white phenocrysts; massive, some silicified sections but generally fairly fresh some quartz-carbonate veining; not mineralized; homogeneous.										
		187.0 - 206.0 Weathered rock.										
		225.0 - 228.0 Silicified zone, 10% fine, random quartz vein.	6125	225.0	228.0	3.0	Tr					
		286.0 - 288.0 Similar to above.	6126	286.0	288.0	2.0	Tr					
		382.0 - 385.0 40% random quartz veining, rest of split is sheared & silicified; trace pyrite.	6127	382.0	385.0	3.0	Tr					
		411.5 - 413.0 20% random quartz veining, rest of split is silicified.	6128	411.5	413.0	1.5	Tr					
		413.0 - 417.0 Similar to above.	6129	413.0	417.0	4.0	Tr					
		440.0 - 442.0 20% quartz veining at 20° to CA; rest of split is silicified & sheared .	6130	440.0	442.0	2.0	Tr					

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SONDAGE no:
HOLE no: MA-85-29
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FORMATION			ÉCHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		455.0 - 457.0 Random quartz veining (455.6 - 455.9), barren.	6131	455.0	457.0	2.0	Tr					
467.0	513.0	ANDESITE Dark grey, fine grained, massive, generally homogeneous but slightly sheared in places, numerous quartz-carbonate veinlets, barren.										
		495.5 - 497.0 60% random quartz veining, upper contact sheared at 30° to CA; orange carbonate & chlorite in vein; barren.	6132	495.5	497.0	1.5	Tr					
		497.0 - 498.5 Barren massive andesite.	6133	497.0	498.5	1.5	Tr					
		498.5 - 501.8 Quartz vein at 50° to CA; orange carbonate, tourmaline, chlorite, barren.	6134	498.5	501.8	3.3	Tr					
		501.8 - 503.3 Andesite, trace pyrite.	6135	501.8	503.3	1.5	Tr					
		503.3 - 505.0 Quartz vein at 50° to CA (503.3-504.0) barren; rest of split is andesite.	6136	503.3	505.0	1.7	Tr					
		505.0 - 509.0 Quartz vein at 60° to CA; tourmaline, chlorite, barren.	6137	505.0	509.0	4.0	Tr					
		509.0 - 513.0 20% random quartz veining, barren.	6138	509.0	513.0	4.0	Tr					
513.0	608.0	MAFIC TUFF Dark greenish-grey; numerous fragments streched along schistosity; sheared at 35° to CA; little mineralization; chloritized, numerous fine quartz-carbonate veinlets.										

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SONDAGE no:
HOLE no: MA-85-29
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		530.0 - 535.0 Sheared tuff, trace pyrite.	6139	530.0	535.0	5.0	Tr					
		587.0 - 592.0 Sheared tuff, trace pyrite.	6140	587.0	592.0	5.0	Tr					
608.0	784.0	DIORITE PORPHYRY (Porphyritic andesite ?) As previously described but less fresh i.e. lightly sheared in places.										
		672.0 - 707.0 Shear zone. Core sheared at 35° to CA.										
		682.0 - 687.0 Trace pyrite.	6141	682.0	687.0	5.0	Tr					
		687.0 - 692.0 Trace pyrite.	6142	687.0	692.0	5.0	Tr					
		692.0 - 697.0 Trace pyrite.	6143	692.0	697.0	5.0	Tr					
		697.0 - 702.0 Trace pyrite.	6144	697.0	702.0	5.0	Tr					
		725.5 - 727.0 Shear zone with 20% quartz veining (30° to CA); trace pyrite.	6145	725.5	727.0	1.5	Tr					
784.0	819.0	MAFIC TUFF Sheared, chloritized, similar to previously described unit.										
		784.0 - 787.0 Quartz vein at 40° to CA (824.4 - 825.0) barren; rest of split is sheared tuff with trace pyrite in fine quartz-carbonate veinlets.	6146	784.0	787.0	3.0	Tr					
		792.0 - 797.0 Trace pyrite.	6147	792.0	797.0	5.0	0.01					

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SONDAGE no: HOLE no: MA-85-29

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
819.0	1003.0	DIORITE PORPHYRY (Porphyritic andesite ?) As previously described.										
		821.0 - 823.0 Trace cubic pyrite.	6148	821.0	823.0	2.0	Tr					
		864.0 - 865.0 Fine-grained, basic dyke at 35° to CA.										
		927.0 - 1003.0 Sheared & chloritized zone with numerous quartz veins.										
		916.0 - 918.0 Quartz vein at 60° to CA, carbonate, tourmaline; chlorite, barren.	6149	916.0	918.0	3.0	Tr					
		918.0 - 920.5 Continuation of same quartz vein.	6150	918.0	920.5	2.5	Tr					
		920.5 - 924.0 30% random quartz veining;barren.	6151	920.5	924.0	2.5	Tr					
		927.0 - 932.0 Trace pyrite associated with fine quartz-carbonate veining.	6152	927.0	932.0	5.0	Tr					
		963.0 - 966.0 30% random quartz veining;barren.	6153	963.0	966.0	3.0	Tr					
		988.5 - 992.5 20% random quartz veining;barren.	6154	988.5	992.5	4.0	Tr					
		992.5 - 994.6 Quartz vein at 80° to CA; chlorite; carbonate; barren.	6155	992.5	994.6	2.1	Tr					
		994.6 - 999.6 30% random quartz veining, barren; broken core.	6156	994.6	999.6	5.0	Tr					
1003.0		END OF HOLE Core stored at Abitibi Resources, Val d'Or.										

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JOURNAL DE SONDAGE / DRILL HOLE RECORD

MID CANADA JOINT VENTURE

SONDAGE No: / HOLE No: MA-85-30

COORDONNÉES DE L'ORIFICE / COLLAR COORDINATES
LATITUDE: 5+00 N LONGITUDE: L88+00W
ÉLÉVATION: AZIMUTH: 360°
INCLINAISON/DIP: -55°
LONGUEUR/LENGTH: 1067.0

TYPE DE FORAGE/TYPE OF DRILLING: WIRELINE
CONTRACTOR: Forages J.P. Bérubé Inc.
DIMENSION DE LA CAROTTE/CORE SIZE: BQ

PROPRIÉTÉ / PROPERTY: BEVCON-BUFFADISON
LOUVICOURT TWP, RANGE VIII LOT 41
CLAIM NO: C-2795-1
SECTION: 88 + 00 W
DÉCRIT PAR/LOGGED BY: Diana L. Sullivan, B.Sc.
DATE: December 1985
COMMENCE/STARTED: December 1985
TERMINÉ/COMPLETED: December 1985

OBJECTIF/PURPOSE: Intersect quartz veins close to shear zone.
SYSTÈME DE MESURES/SYSTEM OF MEASURES: IMPERIAL

TESTS 400' : -60 1/2° ; 600' : -61 1/2° ; 800' : -62 1/2° ; 1000' : -60 1/2°

FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	À/TO	DESCRIPTION	NO	DE/FROM	À/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
0	213.0	OVERBURDEN										
213.0	1067.0	DIORITE PORPHYRY Pale grey, 60% small, white phenocrysts; homoge-neous ; numerous silicified patches; not mineralized; occasional fine quartz veinlet. 216.0 - 242.0 Weathered core. 333.0 - 344.0 Fine grained, basic dyke at 30° to CA 338.0 - 339.5 60% random quartz, chlorite - tourmaline, barren.	6157	338.0	339.5	1.5	Tr					
		338.0 - 393.0 Trace pyrite in silicified patches.	6158	388.0	393.0	5.0	Tr					
		424.5 - 436.5 Fine-grained basic dyke at 20° to CA 453.0 - 456.0 Basic dyke as above.										
		467.0 - 472.0 Trace pyrite in silicified zone.	6159	467.0	472.0	5.0	Tr					
		483.5 - 488.8 Fine-grained basic dyke at 45° to CA.										

JOURNAL DE SONDAGE/DRILL HOLE RECORD

SONDAGE no:
HOLE no: MA-85-30
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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		579.0 - 590.0 Lightly sheared along CA.										
		714.0 - 719.0 Fine grained, basic dyke at 20° to CA.										
		828.3 - 830.2 Sheared porphyry at 30° to CA.										
		833.0 - 844.5 Pale grey dacitic unit, fine-grained, massive, 30° to CA.										
		873.5 - 891.0 Similar dacitic unit as above.										
		902.0 - 907.0 Dacitic unit.										
		909.5 - 910.5 Quartz vein along CA, barren.	6160	909.5	910.5	1.0	Tr					
		919.5 - 920.5 Quartz vein at 60° to CA (919.8 - 920.1); barren.	6161	919.5	920.5	1.0	Tr					
		930.0 - 935.0 20% random quartz veins, 3" or less, tourmaline, barren, porphyry is silicified.	6162	930.0	935.0	5.0	Tr					
		945.0 - 946.0 Quartz vein at 90° to CA; trace pyrite.	6163	945.0	946.0	1.0	Tr					
		1007.0 - 1008.5 40% random quartz-tourmaline veining, barren.	6164	1007.0	1008.5	1.5	Tr					
		1024.0 - 1025.5 30% quartz veining at 45° to CA; barren.	6165	1024.0	1025.5	1.5	Tr					
		1031.0 - 1032.0 Quartz vein at 30° to CA(1031.6-1032.0) chlorite; barren.	6166	1031.0	1032.0	1.0	Tr					

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FORMATION			ECHANTILLON/SAMPLE				ANALYSES/ANALYSIS					
DE/FROM	A/TO	DESCRIPTION	NO	DE/FROM	A/TO	LONG. LENGTH (ft)	Au oz/t	Ag	Cu %	Zn %		
		1039.0 - 1040.0 Quartz vein at 45° to CA (1039.0 - 1039.5); barren.	6167	1039.0	1040.0	1.0	Tr					
		1052.8 - 1053.8 Random quartz veining; chlorite barren.	6168	1052.8	1053.8	1.0	Tr					
		1063.0 - 1064.0 Quartz vein at 70° to CA (1063.5 - 1063.9); barren.	6169	1063.0	1064.0	1.0	Tr					
1067.0		END OF HOLE										
		Core stored at Abitibi Resources, Val d'Or.										