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A REPORT ON A MAGNETIC SURVEY
performed at the
LAFONTAINE PROPERTY
SUMMERS TOWNSHIP, ONTARIO
(NTS 42E/12)
and submitted to
EXPLORATIONS MINIERES DU NORD LTÉE
MONTREAL, QUEBEC
96-N056 SEPTEMBER 1996

VAL D'OR SAGAX

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MAGNETIC SURVEYS
1.1 Total Field Contours
1.2 Total Field Profiles

(Color copies of total magnetic field submitted separately.)

1. INTRODUCTION

At the request of Explorations minières du nord ltée, Val d'Or Sagax Inc. performed linecutting work and a magnetic (MAG) survey over the Lafontaine Property located near the locality of Beardmore, Ontario (NTS 42E/12) (Figure 1, page 4). A total of 99,4625 km of MAG were surveyed from August 14 to August 26, 1996.

After a brief description of the method employed, we discuss the results obtained and attempt to interpret them. Based on the results of this interpretation, we establish what further work is to be executed, if requested.

2. THE LAFONTAINE PROPERTY

2.1 Location and access

The survey grid is located immediately west of the locality of Beardmore, Ontario, in the south western part of Summers Township (NTS 42E/12) (Figure 1, page 4). The grid is accessed by truck from Beardmore.

2.2 Description

The Lafontaine Property consists of 51 mining claims held by Mr. Amédé Lafontaine, Prospector. A total of 48 claims were totally or partially covered by present field work, and are listed below (see also Figure 2, page 5).

Claims covered by the present work:

- 1068871-79 (9)
- 1148369
- 1148395
- 1174237-42 (6)
- 1174244-50 (7)
- 1174252-64 (13)
- 1174843
- 1194265-72 (8)
- 1208773-74 (2)

2.3 Survey grid

A metric grid was completed on the Lafontaine Property (Figure 2, page 5). A baseline (BL 0+00) and two tie lines (TL 6+00S and TL 9+00S) striking N74° were cut. Lines were cut perpendicularly to the baseline and chained every 25 meters. The linecutting job was performed by Exploration GE-AN subcontracting for Val d'Or Sagax Inc.

Figure 1: Location map

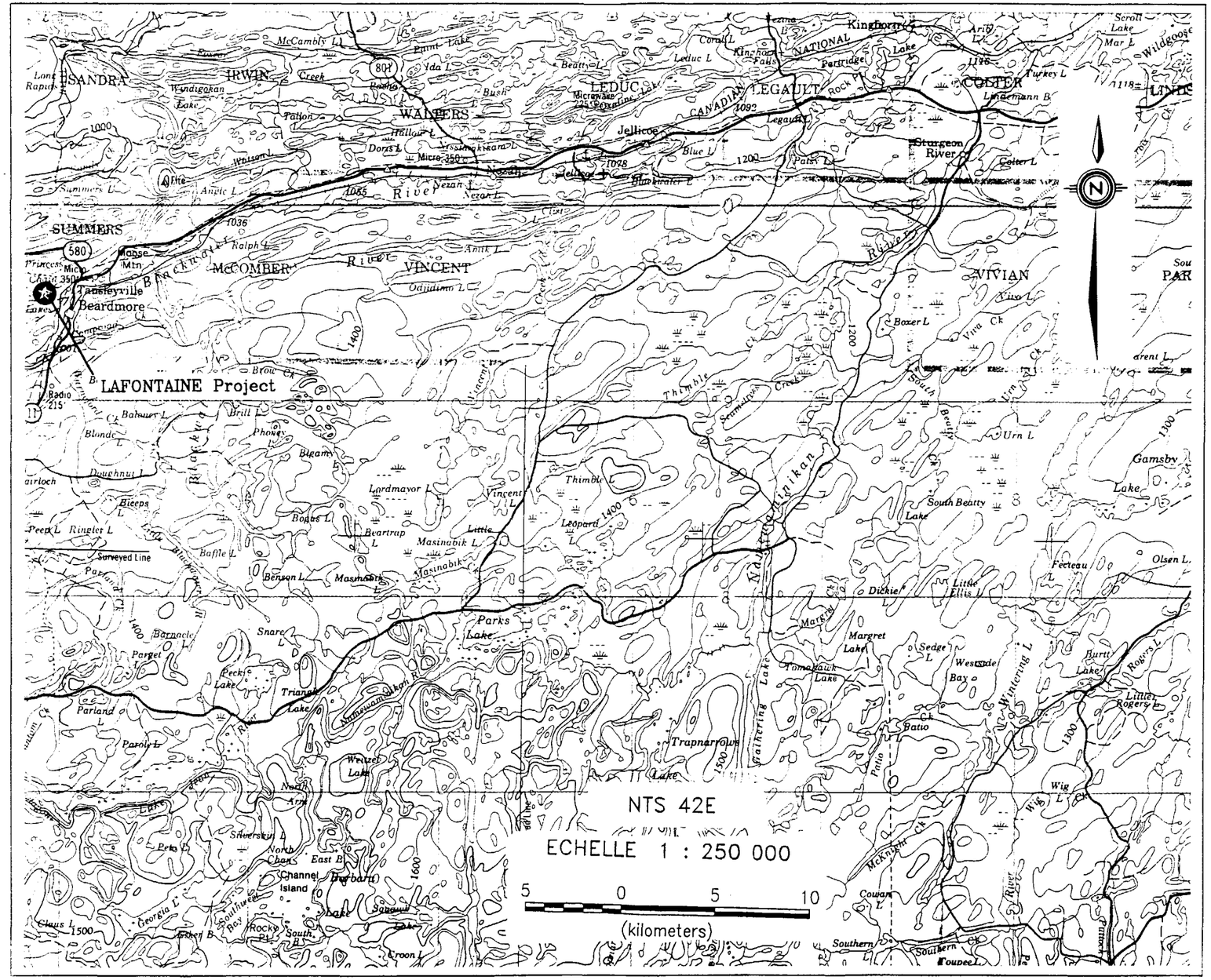
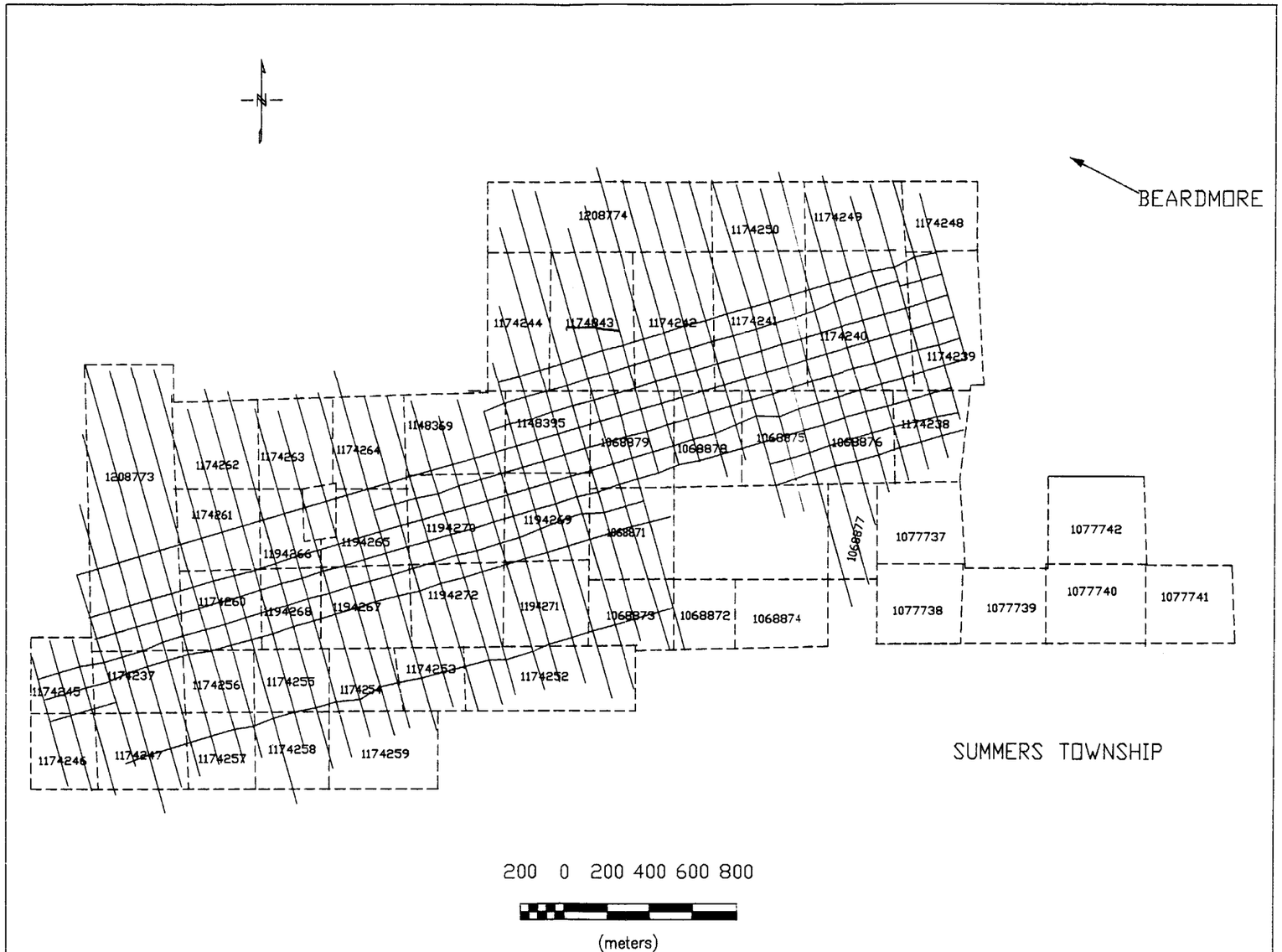


Figure 2: Index of claims and survey area



3. TECHNICAL SPECIFICATIONS OF SURVEY COMPLETED

A total of 99,4625 km of MAG were surveyed from August 14 to August 26, 1996. Be aware that 25,3 km were surveyed through the forest between lines. The magnetic survey was performed by Mr. Paul Mélançon.

A GEM Instruments proton-procession total-field magnetometer model GSM-19W, of a precision of 0,1 nanoTeslas (nT), was used to perform the magnetic survey. Readings of the geomagnetic field were taken every 2 seconds along survey lines using the continuous reading mode. Diurnal corrections were applied automatically by using a second magnetometer as a base station. The total field was recorded every 10 seconds at this base station.

4. DISCUSSION OF RESULTS

The average magnetic values measured on the Lafontaine grid is about 58 700 nT. Two magnetic domains, marked M1 and M2 on the interpretation map, were delineated. The large magnetic variations recorded, especially within magnetic domain M2, oblige us to apply a 20-meter upward continuation to the row data set. Only the most important magnetic lineaments (response intensity and extension) were labelled.

The magnetic domain M1 is characterized by the presence of three magnetic zones (zones 1, 2 and 3), two interpreted fault and some magnetic lineaments. Magnetic zone 3 probably represents a fold zone. A fault (geophysically interpreted) separates magnetic zones 1 and 2 from magnetic zone 3. Six major magnetic lineaments (M-1 to 5 and M-8) are present.

The magnetic domain M2 is characterized by a very active signature. Seven major magnetic lineaments (M-6, M-7 and M-9 to 13) were identified. One of the two interpreted fault partially separates this magnetic domain from magnetic domain M1. The great magnetic variation recorded are representative of a suboutcropping area.

5. RECOMMENDATIONS AND CONCLUSION

Table 1 summarizes the recommended follow-up work to be completed over this property based on the available geoscientific information. These priorities could be modified by Explorations minières du nord ltée based on additional information.

Three interesting magnetic zones were identified within magnetic domain M1 and should be further investigated with Induced Polarization (I.P.).

The magnetic domain M2, typical of a suboutcropping zone, shows some major magnetic lineaments. Magnetic lineaments of importance are also present in the west side of magnetic domain M1. We also recommend to carry out some induced polarization lines on this sector.

Induced polarization is the only method which can detect both massive and disseminated mineralization. This is why we recommend to investigate the prospective structures identified on the Lafontaine magnetic map with this technique. The dipole-dipole configuration, with a nominal spacing *a* of 25 meters between electrodes and six separation factor *n* between dipoles should be used.

Respectfully submitted,

VAL D'OR SAGAX INC.

Hugues Potvin, Eng.

TABLE 1: SUMMARY OF FOLLOW-UP SURVEYS TO BE COMPLETED

Type of work recommended	Coverage Lines	Stations	Priority
Induced polarization survey (a=25m, n=1 to 6)	2100E 1900E 1700E 1500E 1300E 1100E 900E 700E 500E 300E 100E 000E 100W	500S to 400N 650S to 400N 700S to 750N 500S to 800N 500S to 500N 350S to 650N 300S to 1050N 300S to 950N 1100S to 1000N 1100S to 950N 700S to 400N 700S to 200N 1100S to 200N Total : 16,75 km	1
Induced polarization survey (a = 25 m, n = 1 to 6)	200W 400W 600W 700W 900W 1000W 1100W 1300W 1400W 1600W 1800W 1900W 2000W	1100S to 200N 1100S to 200N 900S to 200N 1000S to 100N 1100S to 200N 1100S to 200N 1100S to 200N 1000S to 400N 800S to 800N 1000S to 800N 1050S to 300N 1150S to 150N 950S to 000 Total: 17,1 km	2

APPENDIX

EXPLORATIONS MINIÈRES DU NORD

REPORT ON THE 1996-97 EXPLORATION PROGRAM
ON THE
LAFONTAINE
PROPERTY

SUMMERS TOWNSHIP
THUNDER BAY MINING DISTRICT
Ontario

NTS 42E/12, 52H/9

March ,1998

Prepared by: T. Goettel
Geologist, B.Sc.

1612 O'Reilly, Sherbrooke, Qc.;J1J 1C1 ; Tel : (819) 563- 4356

SUMMARY

Explorations Minières Du Nord Ltée has signed a joint venture agreement with Pangea Goldfields Inc. on the Lafontaine property in Summers Township, immediately west of Beardmore, Ontario. **Minières Du Nord** must spend 500 000 dollars in exploration over a maximum period of two years, including 200 000 dollars in the first year. Pangea will spend an additional 400 000 dollars in exploration expenditures during the subsequent two years, after which Pangea and **Minières Du Nord** will each hold a 50% interest in the property.

The Lafontaine property, consisting of 55 claims covering 928 hectares, is located in the Summers Township in the Geraldton area of northern Ontario, immediately west of the town of Beardmore.

The property is located on the western part of the Beardmore-Geraldton greenstone belt (BGB) of northern Ontario. The volcanic, sedimentary and intrusive rocks of the region are of Archean age, except for the more recent diabase dykes.

The Geraldton-Beardmore Greenstone Belt is the host of one of the principal gold mining camps in Ontario. Within a 7 kilometre radius of the Lafontaine property are three former gold producers: The Northern Empire Mine, which produced 149 490 ounces of gold from ore grading **0,35 oz. Au/t**; the Leitch Gold Mine, which produced 847 291 ounces of gold from ore grading **0,92 oz. Au/t**; and the Sand River Mine, which produced 50 065 ounces of gold from ore grading **0,32 oz. Au/t.**

The property is mostly underlain by basalts. Two shear zones trending ENE traverse the property. The majority of the known showings are located in between the two shear zones. Gold values have been obtained from sulphide bearing BIF and from within shear zones occurring on the property.

Numerous gold showings occur on the Lafontaine property, including the Long Beard Showing which has been subject to sporadic exploration activity since its discovery in the 1930's. Previously obtained values from diamond drilling of this showing range up to **1,95 oz. Au/2,62 feet**. Grab samples obtained from showings discovered by mechanical stripping range from **0,07 to 0,10 oz. /t** on the "d" showing; **0,09 to over 1,03 oz. /t** on the "f" showing; **0,30 oz./t** on the "i" showing.

The 1996-97 exploration program consisted of power stripping and sampling of magnetic anomalies and of areas of geological interest, and the second phase of diamond drilling of 24 holes totaling 3 082 metres. Numerous banded iron formations were uncovered , of which two were washed and sampled. The Long Beard Showing was stripped and washed after a grab sample returned a value of **36.54 g/t Au (1.06 oz./t)**. A 275 metre long gold bearing iron formation was discovered by power stripping (Main BIF). Diamond drilling of the Buffalow Beardmore showing gave disappointing results with the highest gold valueobtained being 1,07 g/t Au over 0,27

metres. Numerous grab and drill core samples grading over 1g/t Au and up to 3.08 g/t Au were obtained from within the main BIF. Hole LA-97-2 tested the Main BIF at a vertical depth of 200 metres. The results were disappointing, but not conclusive. The hole did define the along dip extent of the formation, but as far as defining the gold potential, due to the flat nature of the quartz veins and the angle that the hole pierced the formation, quartz veins could have been missed. Hole LA-97-3 was drilled to the west of the stripped iron formation. The hole defined the continuity of the iron formation to the west, although the grades are not of economic significance. To obtain a better understanding of the distribution of the gold mineralization, it is recommended to do a detailed channel sampling program over these showings.

Hole LA-96-7 tested the area of numerous thin iron formation lenses("F" showing). Grab samples from the surface showings range between **> 1 oz./t to 2,55 g/t Au.** Although the down dip extension of the high grade iron formation was not intersected by the hole, a gold value of 2,58 g/t over 0,14 m was obtained. Taking into account the proximity of other gold bearing structures and the possibility of a plunge to the iron formations, this area warrants further examination.

Five areas of interest consisting of magnetic anomalies(holes LA-96-13,14,17, LA-97- 4, 6) were drill tested, an IP anomaly (hole LA-96-15), the possible strike extension of a quartz-gold bearing shear showing on the neighboring property (hole LA-97-16), were drill tested and gave negative results. No further work is warranted in these areas.

In the area of numerous BIF showings, the interpretation of the magnetic map indicating a large fold structure was tested by hole LA-97-1. The hole did not prove or disprove the presence of a fold, but it did define the causative bodies as magnetite rich quartz veins barren of gold. No follow up work is recommended along this structure.

The "Arsenopyrite Fault" was tested by holes LA-96-3 and LA-97-7. Although no economic gold intersections were found, the structure remains a prime exploration target. The carbonate alteration along with anomalous arsenic and gold values of up to **10g/t Au** obtained from this large structure indicate hydrothermal activity within this structure. To date the structure has been identified from L17W (hole 96-3) to L1W (collar of hole 97-2). A magnetic low with an associated VLF anomaly occurs to the NE, along strike of the fault. Government geological maps indicate the presence of a granodiorite in this area. A brittle rock within a fault zone which has undergone hydrothermal alteration and bears anomalous gold and arsenic values is deemed a priority drill target. One must also bear in mind that the intersection at depth of the "Main BIF" and the "Arsenopyrite Fault" is a prime target for gold mineralization.

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1.0 INTRODUCTION

Explorations Minières Du Nord Ltée / Pangea Goldfields Inc. joint venture Lafontaine property, located in the Summers Township, immediately west of Beardmore, Ontario, was the object of a two phase exploration program during the period from September 9 to October 24, 1996 and a two phase program during the period of October 17 to November 10 1997. Phase one(1996) consisted of power stripping, washing and mapping of geophysical and geological targets of interest. Phase two of the program consisted of diamond drilling totalling 1 969 metres in seventeen holes. The 1997 program consisted of a phase one of verifying the numerous magnetic anomalies on the property along with " showings" from archives. Phase two consisted of a seven hole diamond drilling program totalling 1 113 metres. **Minières Du Nord Ltée** was the operator of the program.

The power stripping contract was awarded to F & M Contracting of Beardmore, Ontario. The diamond drilling contract was awarded to Chibougamau Diamond Drilling Ltd. of Chibougamau, Québec. The assaying was done by CHIMITEC laboratories of Val d' Or , Québec. The program was supervised by Ted Goettel, geological consultant from Sherbrooke, Québec.

2.0 LOCATION AND ACCESS

The Lafontaine property is located in the Summers Township in the Geraldton area of northern Ontario, immediately west of the town of Beardmore. Convenient access on the property is provided by numerous bush roads that traverse a large portion of the property.

The property is easily accessible by all-weather roads. (Fig#1)

EXPLORATIONS MINIERES DU NORD

PROJECT	LAFONTAINE	MADE: T. GOETTEL
		DATE: MAR. 4, 1997
LOCATION MAP		SCALE: 1 : 725 000
		FIGURE # 1

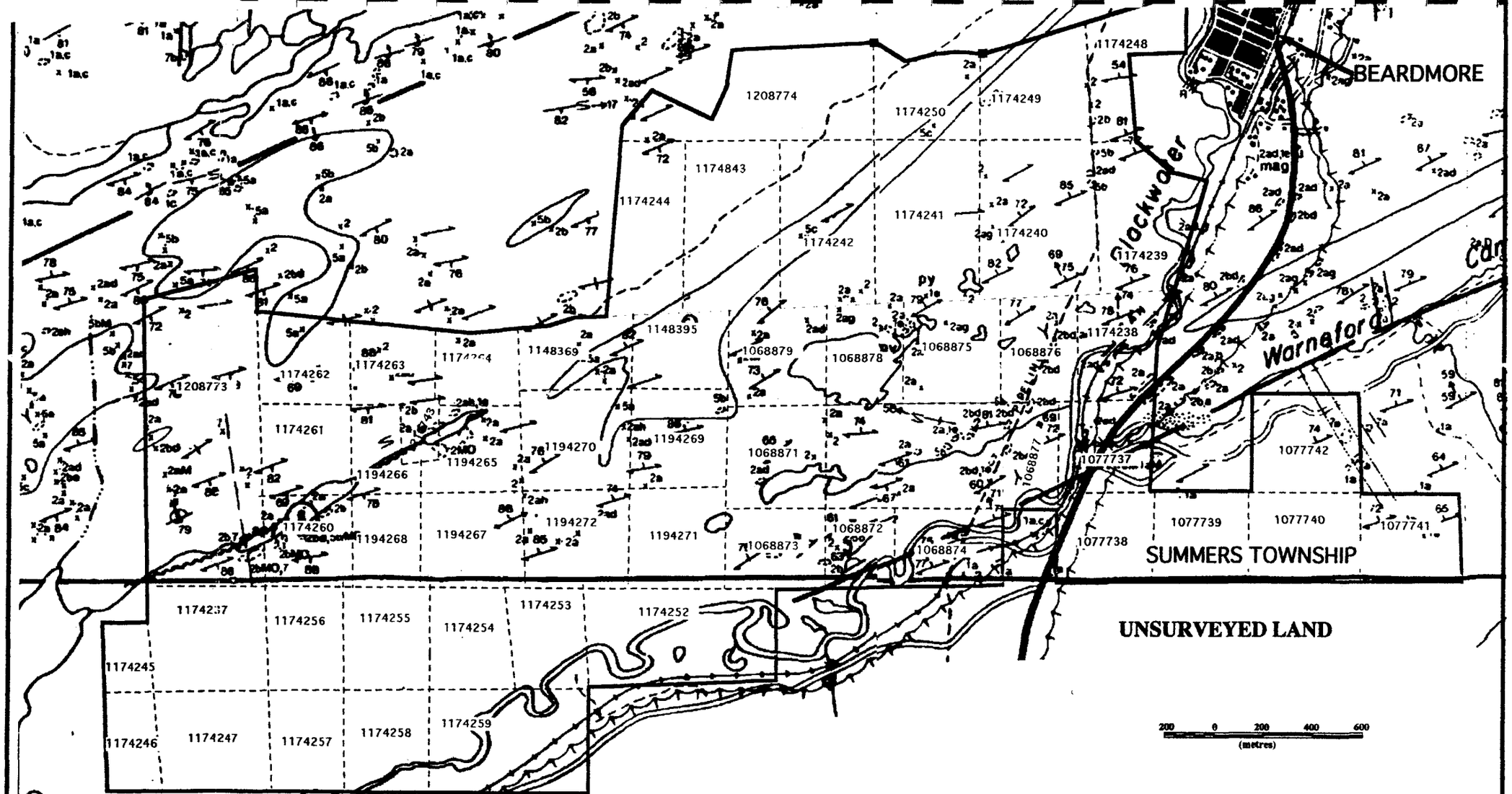
3.0 THE MINING PROPERTY

The property consists of 55 contiguous claims with a surface area of approximately 928 hectares. (Fig#2)

The claims are:

1068871	1068872	1068873	1068874	1068875	1068876
1068877	1068878	1068879	1077737	1077738	1077739
1077740	1077741	1148395	1148396	1174237	1174238
1174239	1174240	1174241	1174242	1174243	1174244
1174245	1174246	1174247	1174248	1174249	1174250
1174252	1174253	1174254	1174255	1174256	1174257
1174258	1174259	1174260	1174261	1174262	1174263
1174264	1194265	1194266	1194267	1194268	1194269
1194270	1194271	1194272	1194272	1208773	1208774
1210743					

The topography is relatively flat in the area with steep escarpments towards the Blackwater river. The property is covered by a thin layer of glacial sands and gravels. Vegetation consists of black spruce and grey pine.



CLIENT EXPLORATIONS MINIERES DU NORD LTEE		MADE T. GOETTEL	DATE D EC. 1997
PROJECT	LAFONTAINE	SCALE	1: 20 000
	CLAIMS MAP		Figure # 2

4.0 REGIONAL GEOLOGY

The Lafontaine property is located on the western part of the Beardmore-Geraldton greenstone belt (BGB) of northern Ontario. The volcanic, sedimentary and intrusive rocks of the region are of Archean age, except for the more recent diabase dykes.

The geology of the region has been described by the Ministry of Northern Development and Mines in 1993 (Shanks,W.S.).

The BGB consists of three east-northeast- striking metavolcanic sub-belts and three clastic metasedimentary sub-belts. The area is considered to be part of the Wabigoon Volcanic- Sedimentary Belt. The belt stretches from Lake Nipigon to Little Long Lake. The major shear zones of the Wabigoon Belt are: The Blackwater River (Empire), Watson Lake, and Paint Lake fault zones. The Paint Lake Fault forms the Wabigoon-Quetico boundary.

The rocks are folded, faulted and intruded by gabbro, diorite, granodiorite and diabase. The volcanic units consist of basaltic to andesitic, massive pillowed flows, tuffs, volcanic breccia, and iron formations. The sedimentary rocks are composed of interbedded greywacke, arkose, siltstone, and iron formation units.

Past gold production from the Beardmore-Geraldton Greenstone Belt has exceeded 4,1 million ounces.(Fig.#3)

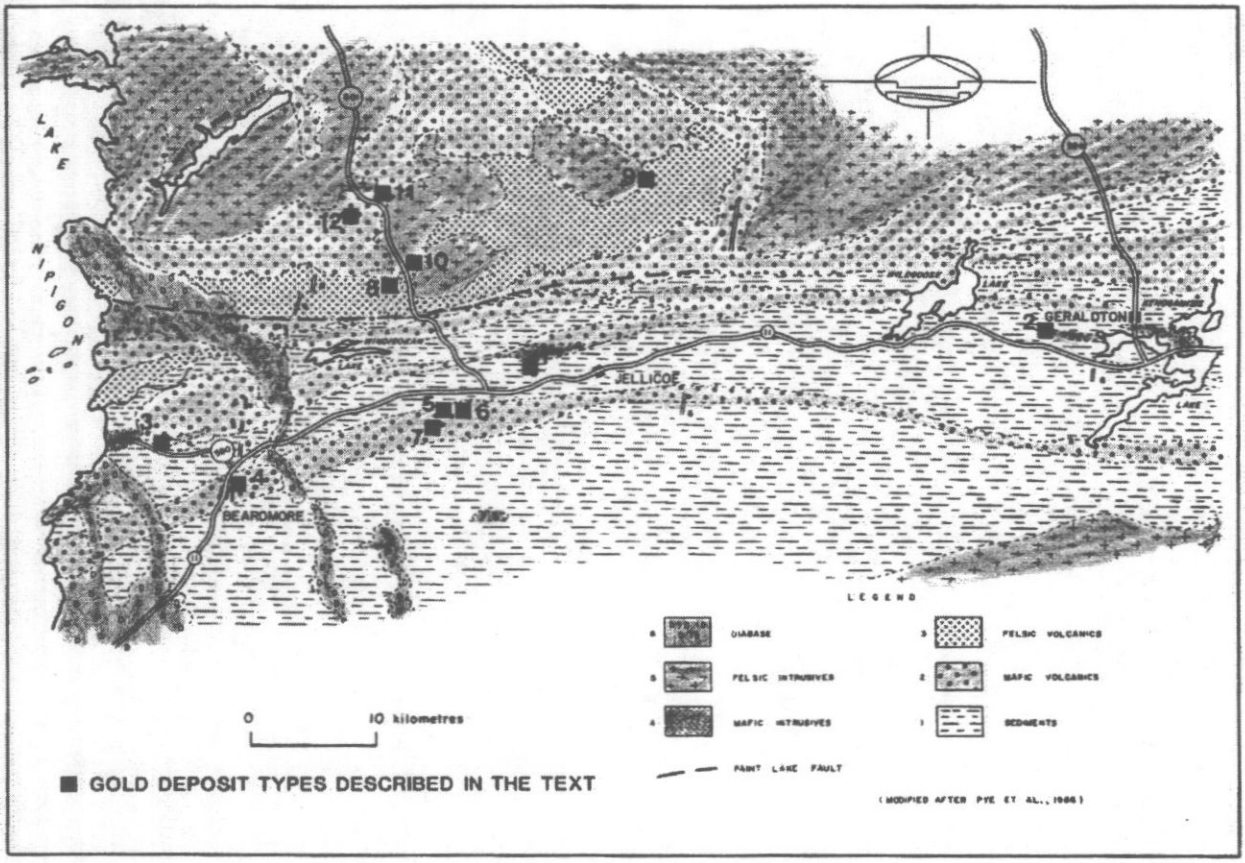


Figure 1. *Geology of the Beardmore-Geraldton area.*

1. Solomon's Pillars Prospect (Oremond Prospect)
2. Magnet Consolidated Gold Mine
3. Leitch Gold Mine
4. Pan-Empire Joint Venture (Northern Empire Mine)
5. Maki Property
6. Pichette Occurrence
7. Craskie-Vega Occurrence
8. Quebec Sturgeon River Mines Limited
9. Orphan (Dik-Dik) Gold Mine
10. Mitto Prospect (Kengate Resources Limited)
11. Greenoaks Prospect
12. Crooked Green Creek Mine (Northern Concentrators Limited)

EXPLORATIONS MINIERES DU NORD PROJECT **LAFONTAINE**	MADE **T.GOETTEL**	DATE **MARCH 97**
	SCALE **As shown**	
REGIONAL GEOLOGY MAP	**FIGURE # 3**	

5.0 PROPERTY GEOLOGY

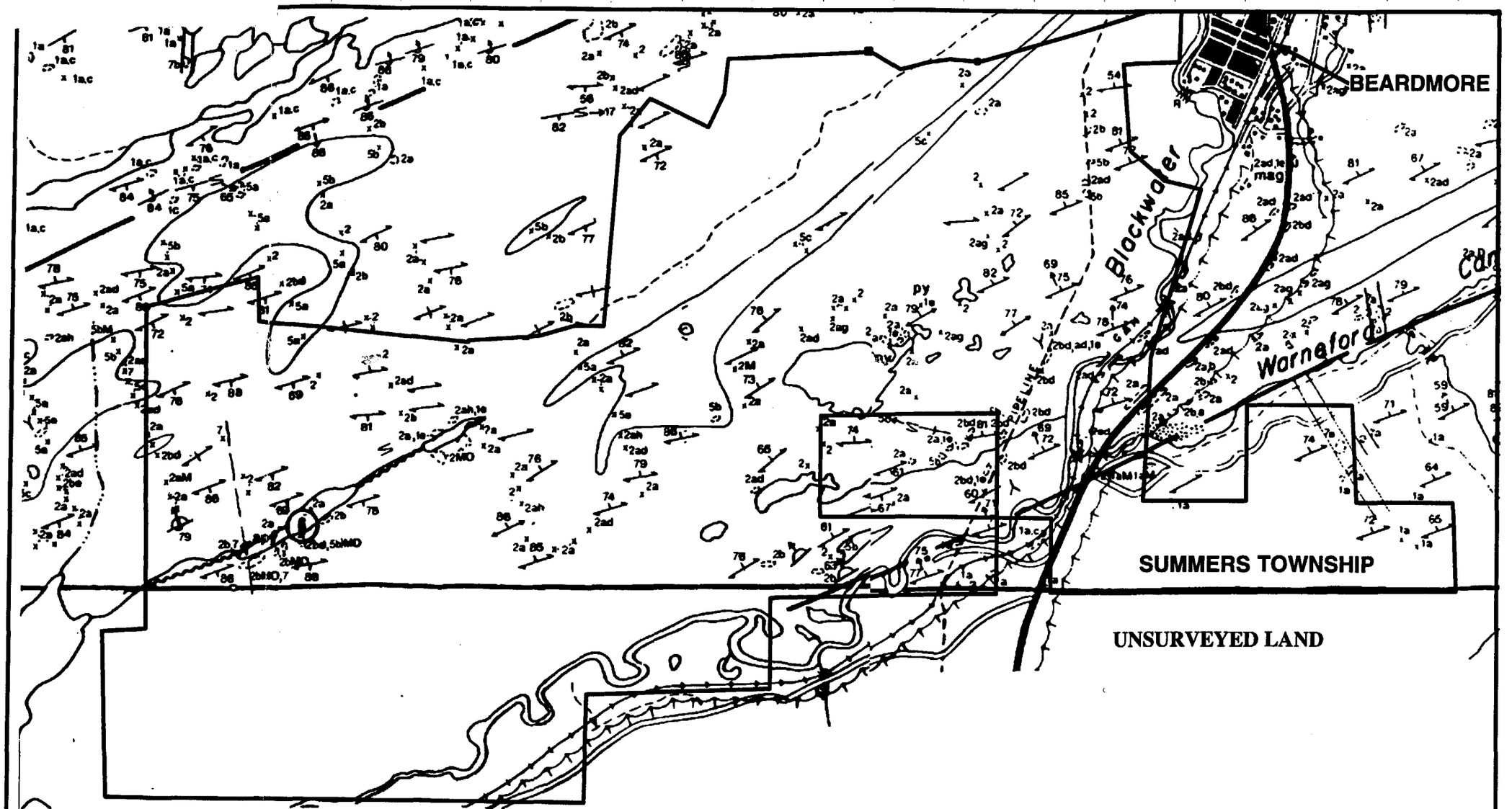
Mafic volcanics are the dominant rock type underlying the property. They are massive to pillowed, medium grained with Fe tholeiite basaltic composition. In the northern part of the property the volcanic sequence has a general strike of 070° with steep northwestward dips of 70° to vertical. In the southern part the volcanic rocks generally strike 070° and dip steeply to the north. Chlorite replacement is the dominant alteration and is generally present throughout the volcanic sequences, increasing significantly in and around zones of shearing. (Fig.#4)

Sedimentary rocks common on the property occur in the northern part of the property and consist of weakly to strongly foliated greywacke, and greywacke interbedded with mudstone. Intermediate to mafic tuffs also occur in the northern part of the property.

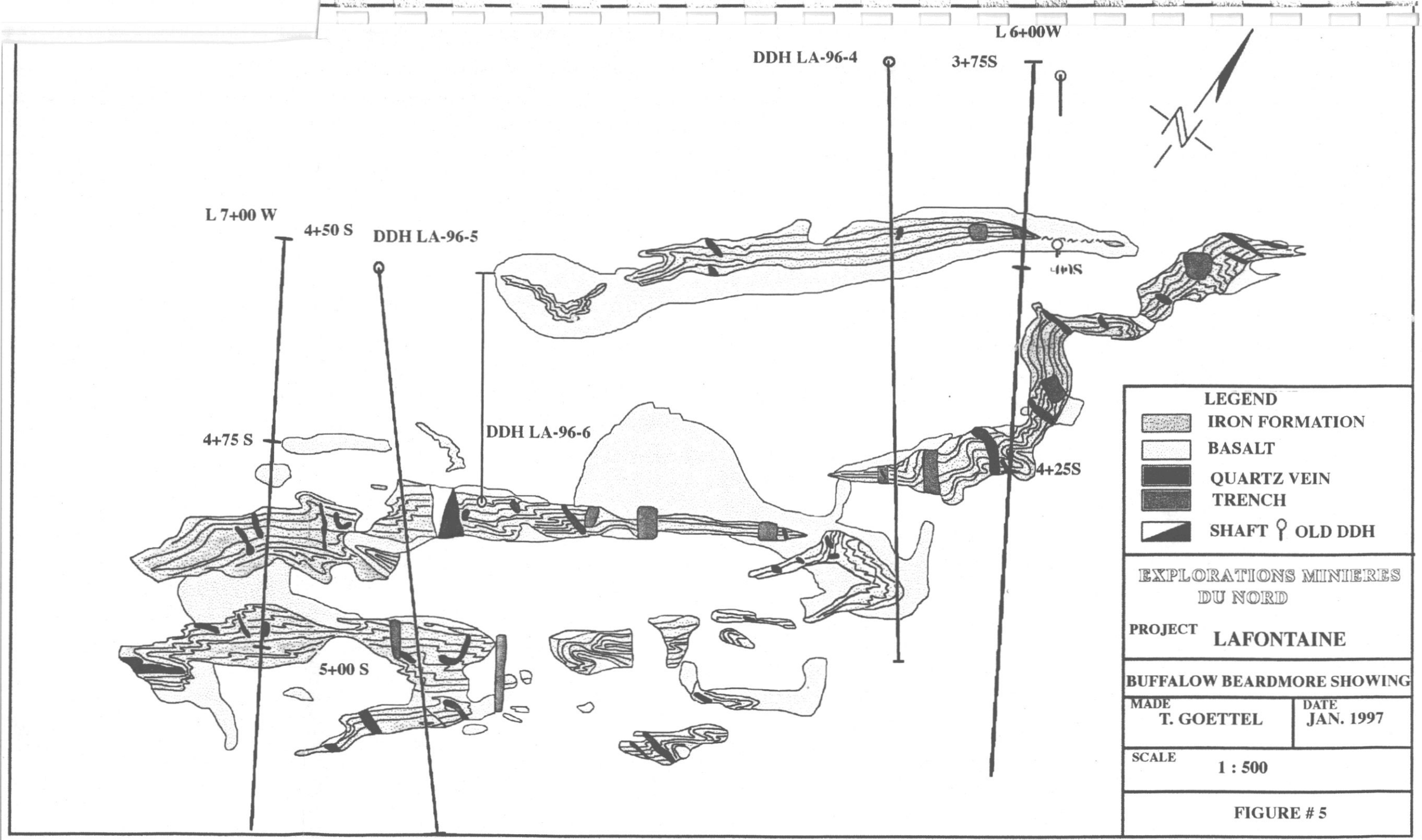
Banded iron formation outcrops in a number of places on the property. To date the units identified are 1 to 12 metres wide and are exposed along strike for up to 275 metres. The BIF units are highly folded and generally parallel the regional foliation and consist of alternating bands of quartz-carbonate bands and magnetite-hornblende bands. These units are hosted within the volcanic rocks. In certain areas the BIF are strongly oxidized and carbonatized. Flat lying quartz-carbonate veins hosting pyrite, arsenopyrite and pyrrhotite along vein margins cross cut the BIF. In other areas the quartz-carbonate veins host pyrite and chalcopyrite ranging from a few percent to semi-massive lenses.

The Buffalo Beardmore showing consists of a series BIF hosted in a basalt. The BIF and associated cross cutting quartz veins host disseminated, irregular concentrations of arsenopyrite, pyrite and pyrrhotite mineralization. Values of up to **0,42 oz. Au / t over 2,64 metres** were reported from this showing.(Resident Geologist files, Beardmore-Geraldton District, Thunder Bay. One grab sample taken during the program graded **1.06 oz. / t Au.** (Fig#5)

Mechanical stripping has uncovered numerous mineralized showings on the property. During the present program a 275 metre long BIF with widths of up to 12 metres was uncovered. The unit strikes 230° and dips 72 to 74° to the north. The BIF hosts numerous flat lying quartz-carbonate veins hosting semi-massive to massive arsenopyrite, pyrrhotite and pyrite. The sulphides occur within the veins and the wall rocks. Previously the (i) and (h) showings were uncovered. These two showings occur within a formerly unrecognized or unreported shear zone. The fault is concordant with the property's other structures and with major geological structures of the Geraldton-Beardmore camp. The (i) showing consists of a massive basalt with strong pervasive Fe carbonate alteration and a series of parallel quartz-carbonate veins. Arsenopyrite is the dominant sulphide present within the carbonatized basalt and quartz-carbonate veins. Two grab samples of vein material returned values of **10g Au/t and > 10g Au/t**. The (h) showing consists of a 35 metre wide zone of hydrothermally altered volcanic rock, on the south side of the of the



CLIENT EXPLORATIONS MINIERES DU NORD LTEE	FAIT/ MADE T. GOETTEL	DATE JAN.1997
PROJET/ PROJECT LAFONTAINE	SCALE/ ECHELLE 1: 20 000	
PROPERTY GEOLOGY	Figure # 4	


L 6+00W
DDH LA-96-4
3+75S
L 7+00 W
4+50 S
DDH LA-96-5
4+75 S
DDH LA-96-6
4+25S
5+00 S
LEGEND
IRON FORMATION
BASALT
QUARTZ VEIN
TRENCH
SHAFT
OLD DDH
EXPLORATIONS MINIERES DU NORD
PROJECT
LAFONTAINE
BUFFALOW BEARDMORE SHOWING
MADE
T. GOETTEL
DATE
JAN. 1997
SCALE
1 : 500
FIGURE # 5

5.0 PROPERTY GEOLOGY(cont.)

fault. The zone hosts quartz-carbonate veins situated to the immediate south of two oxidized iron formations. Semi-massive lenses of pyrite occur within the altered and sheared volcanic rocks.

Numerous conductors have been identified by airborne geophysical surveys on the property. They have a general ENE trend. A recently completed continuous magnetic survey suggests a yet to be proven fold structure in the central part of the property.

6.0 PREVIOUS WORK

1936- Buffalo Beardmore Gold Mines held a 13 claim group straddling Summers Township and the Beardmore area western boundary, immediately north of the Black Water River. Work consisted of 450 metres of stripping . No assay values were reported.

1937- A 24,5 metre shaft was sunk and continued stripping and sampling revealed a series of gold bearing quartz veins. The area was designated #4 Zone, or "Hill" vein and later became known as the Long Beard Showing.

1938-Surface exploration and a 3 048 metre diamond drilling program was conducted with encouraging results. The August 18th issue of The Northern Miner reported the results as follows:

Drill Hole #	True Width (ft.)	Grade (oz. Au/Ton)
1	2,59	0,13
2	3,61	0,19
3	1,06	1,45
	3,54	0,48
	15,13	0,13
4	2,62	1,95
	1,34	1,76

In September of the same year, Buffalo Beardmore Gold Mines reported the following results:

Drill Hole #	True Width (ft.)	Grade (oz. Au/Ton)
7	5,0	0,30
	5,0	0,28
	2,8	0,16
	2,0	0,38
	9,8	0,13
	5,0	0,18
	2,1	0,76

W.W. Beaton, consultant engineer for Buffalo Beardmore Gold Mines, summarizes the season's work as appeared in The Northern Miner on October 20th, 1938 : " Averages of $6.41 (0,18oz.) over 7,2 feet and $37.38 (1,07 oz.) over 7 feet have been obtained from drilling on the "Hill" vein at a depth of 100 feet. These holes appear to bear out surface showings previously obtained on this vein of an average of $14.69 (0,42 oz.) over 8,69 feet."

6.0 PREVIOUS WORK (cont.)

1939-A scheelite discovery propelled continued exploration along four mineralized zones, in particular the # 4 zone.

1940-Limited surface and diamond drill work. No assay values reported, results are not available.

1942-Limited surface and diamond drill work. Results are not available.

1943-Continued scheelite exploration with limited stripping and diamond drilling. Results are not available.

1949-Broadview Gold Mines Ltd. acquires 21 contiguous claims, 7 of which cover the # 4 zone of Buffalo Beardmore Gold Mines. A magnetometer survey by J. H. Low, consultant geophysicist, outlines 9 separate magnetic anomalies in the vicinity of the #4 zone. A proposed follow-up program of diamond drilling and surface work was never performed due to financial difficulties.

1985-Thorco Gold Finders conducts a program of manual stripping, sampling, geological mapping , magnetic survey and one diamond drill hole. Part of this work is on the present day property.

1986-An airborne magnetometer and EM survey is conducted by Terraquest Ltd. over the western part of the property. Strong Em conductors with associated magnetic highs were defined in the Long Beard vicinity.

1989- Golden Dragon and Glen Auden Resources conduct a VLF and IP survey . The survey covers the south west part of the present day property.
75 km of grid is cut, geological mapping identifies two areas of interest on the present day property. Stripping and channel sampling was carried out.

1989-An airborne magnetometer and EM survey is conducted by Terraquest Ltd. over the eastern part of the property. Strong Em conductors with associated magnetic highs were defined. Prospecting and mechanical stripping was then carried out.

1990-93 Prospecting and stripping programs by A. Lafontaine, prospector.

1994-Placer Dome Canada Ltd. performs a limited sampling program of some of the trenches. Values of **6,21 g Au/t over 1,4 metres, and grab samples of 5,65 g Au/t and 6,01 g Au/t** along with numerous values ranging between 867 ppb and 100 ppb were obtained. The trenches that were visited were not clean and in many places outcrops were limited.(G. Shevchenko, geologist, Placer Dome, personal communication, 1996)(Fig#34)
Continued stripping and prospecting by A. Lafontaine.

7.0 THE 1996 EXPLORATION PROGRAM

The exploration program consisted of a phase one of stripping, washing and mapping and a second phase of diamond drilling.

7.0.1 Phase one

A total of seven areas were stripped over magnetic anomalies, with six of the anomalies explained by the presence of iron formations. The cause of the anomaly of the sixth area of power stripping, not being completed due to the lack of time and the onset of freezing temperatures, was verified in the 1997 program. A large BIF was discovered by stripping an area where a previous trench uncovered a narrow BIF. Stripping an area around the Buffalow Beardmore showing uncovered numerous thin BIFs. Following is a description of each of the areas examined.(Fig# 6)

Stripping an area of 5x75m on line 4W at 4+50 S revealed a 1 metre wide BIF exhibiting folding. The trench was not washed and no quartz veins or mineralization was noted.

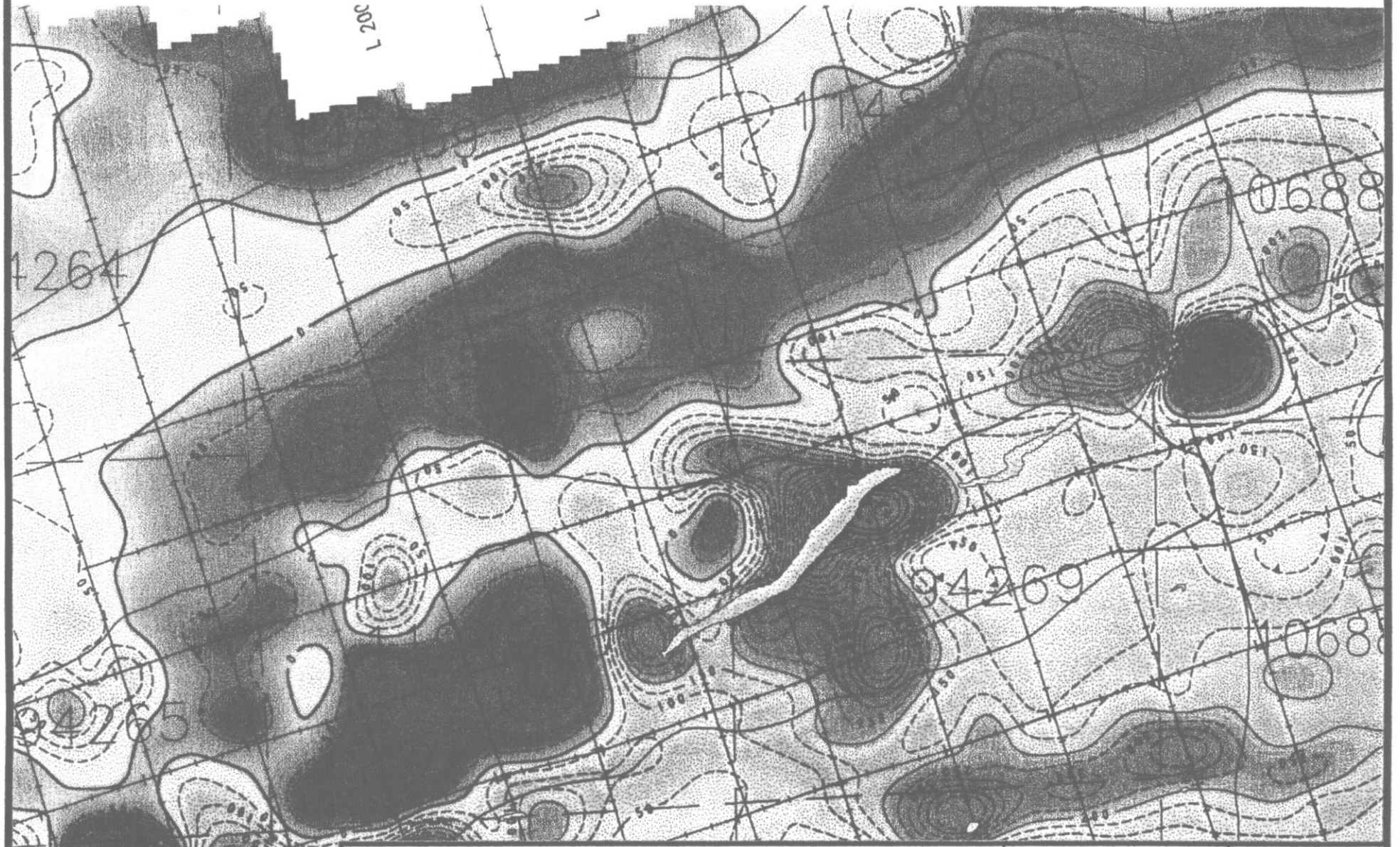
Stripping an area of 5x75m on line 3W uncovered three narrow BIFs. At 4+39S a two metre wide magnetite rich iron formation bearing no quartz veins or sulphides was found. At 4+75S a 0.5 metre wide magnetite bearing iron formation was uncovered. At 4+80S a 0.75 metre wide iron formation with quartz veinlets with traces of pyrrhotite was uncovered. This trench was not washed.

Stripping an area of 25x60m on line 1E at 5+70S uncovered a contorted BIF forming a 2 to 3 metre high knob on the side of a hill. The iron formation is 2 metres wide, bears no visible sulphides and although the stripped area was not washed there seems to be no continuity along strike of this formation.

Stripping an area of 5x40m on L3E revealed a lens 0.20 metres in width of iron formation. Although the trench was not washed there seems to be no continuity along strike of the iron formation. No sulphides were noted.

Stripping an area of 5x75m on L5E revealed two narrow iron formations. At 4+40S a 0.25 metre wide iron formation with unmineralized quartz vein and another at 4+50S measuring 0.50 metres in width and bearing pyrite. A grab sample in this location graded 15 ppb Au. This trench was not washed.

An area between L4W at 6+00S and L5W at 6+50 S was bulldozed ,but due to the lack of time, was not cleaned with the power shovel. This is an area of interest because of the numerous old trenches and pit found in this location. A grab sample of iron formation hosting 7% pyrrhotite graded 38 ppb Au.



EXPLORATIONS MINIERES DU NORD

PROJECT

LAFONTAINE

MADE **T.GOETTEL**

DATE **MARCH 97**

SCALE **1 : 5 000**

IRON FORMATIONS ON MAGNETIC CONTOUR MAP

FIGURE # 6

7.0 THE 1996 EXPLORATION PROGRAM(cont.)

7.0.1 Phase one(cont)

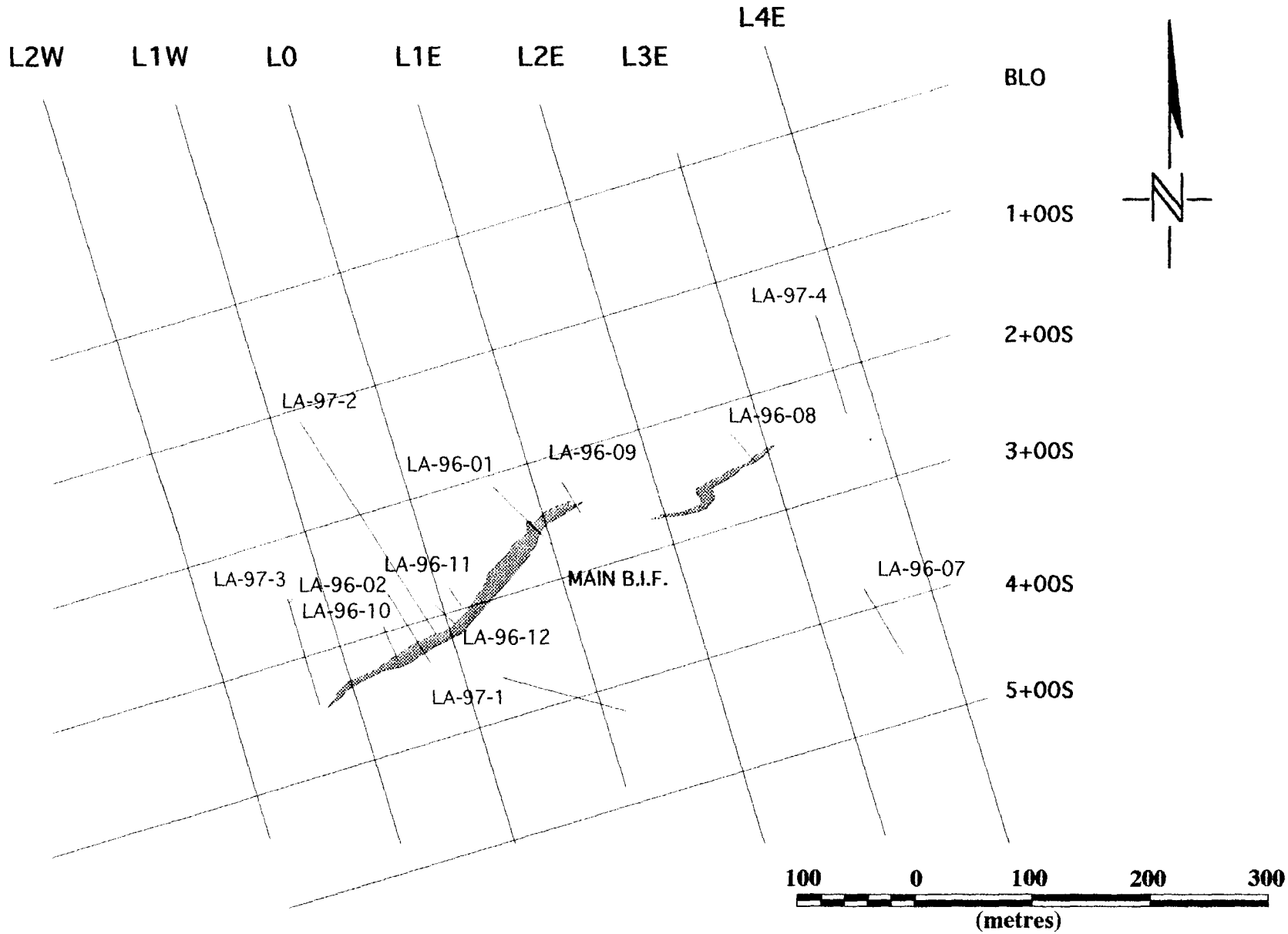
Stripping over an area where a narrow BIF was previously stripped , but not washed uncovered a 120 metre long and 2 to 3 metre wide BIF bearing numerous flat mineralized quartz veins. Prospecting along L1E lead to the discovery of what was believed to be the strike extension of the first discovery. Stripping of an area measuring 425 metres by 50 metres wide lead to the definition of two BIFs. (Fig #7) The second BIF is 250 metres long and ranges from 2 to 12 metres in width bearing numerous flat and vertical mineralized quartz veins. The mineralization consists of traces to masses of arsenopyrite, pyrrhotite and pyrite within and adjacent to the quartz-carbonate veins. Both of the formations exhibit dips of 72° to 74° to the northwest , are highly folded with folds plunging steeply to the northwest. The general strike of the formations is 230°. Grab samples taken from these BIFs range from **3.62g/ t to 36 ppb**. There seems to be a good correlation between the amount of arsenopyrite and gold content , but as always there are the exceptions.

Prospecting in the old pits of the Buffalow Beardmore showing was difficult due to the overgrown nature of the old trenches and pits. A grab sample taken from the piles adjacent to the old pits consisting of arsenopyrite rich iron formation graded an impressive **36.54 g / t Au.** Stripping of the area revealed a series of contorted mineralized BIF s identical to the other ones discovered during the 1996 program (Fig#5). It is noteworthy to mention that the magnetic survey on L7W failed to detect the iron formation. The iron formations are up to 80 metres in length and up to 10 metres in width. There appears to be at least four bands of iron formations present along with numerous lenses.

7.0.2 Phase two

Phase two of the exploration program consisted of the diamond drilling of seventeen holes totalling 1 969 metres. Targeted by the program were the " i " showing with one hole, the " f " showing with one hole, three holes on linear magnetic anomalies on the northern part of the property, one hole on an IP anomaly defined by Golden Dragon Resources and Glen Auden Resources in 1990, one hole along strike of a gold bearing quartz vein located on the neighboring property to the north, the Buffalow Beardmore showing with three holes, and 7 holes on the newly discovered BIF. (Main BIF)(Fig#32)

Following is a short summary of each hole drilled, not in the sequence as they were drilled:



CLIENT EXPLORATIONS MINIERES DU NORD LTEE.		MADE T. GOETTEL	DATE MARCH 98
PROJECT LAFONTAINE		SCALE 1 : 5 000	
MAIN BIF		Figure # 7	

7.0 THE 1996 EXPLORATION PROGRAM(cont.)

7.0.2 Phase two(cont)

Hole LA-96-3 drilled on L17W at 2+50S targeted the "swamp lake" or "arsenopyrite fault" showing, which consists of a strongly carbonate and ironcarbonate altered basalt hosting a series of parallel quartz-carbonate veins, ranging from 4 to 25 cm. in width. The veins strike 88°. The veins and wall rock host up to 10% arsenopyrite and grab samples taken in the past gave values up to **< 10g/t Au**.

The hole traversed a basalt with a 0.70 metre carbonatized section hosting a 14 cm wide quartz-carbonate vein bearing 4% fine to medium grained arsenopyrite. The vein was intersected at 32.8 to 33.5 metres and does not represent the down dip extension of the surface showing. A value of **156 ppb Au / 0.5 metres** was obtained from the vein. A 1,78 metre wide shear zone hosting 10% white quartz lenses bearing traces of pyrite and pyrrhotite was encountered at 53.34 metres. This shear could be the down dip extension of the surface showing. Numerous thin shear zones and strongly foliated basalt horizons were traversed. A mudstone was intersected from 67.50 to 70.2 metres.(Fig# 8)

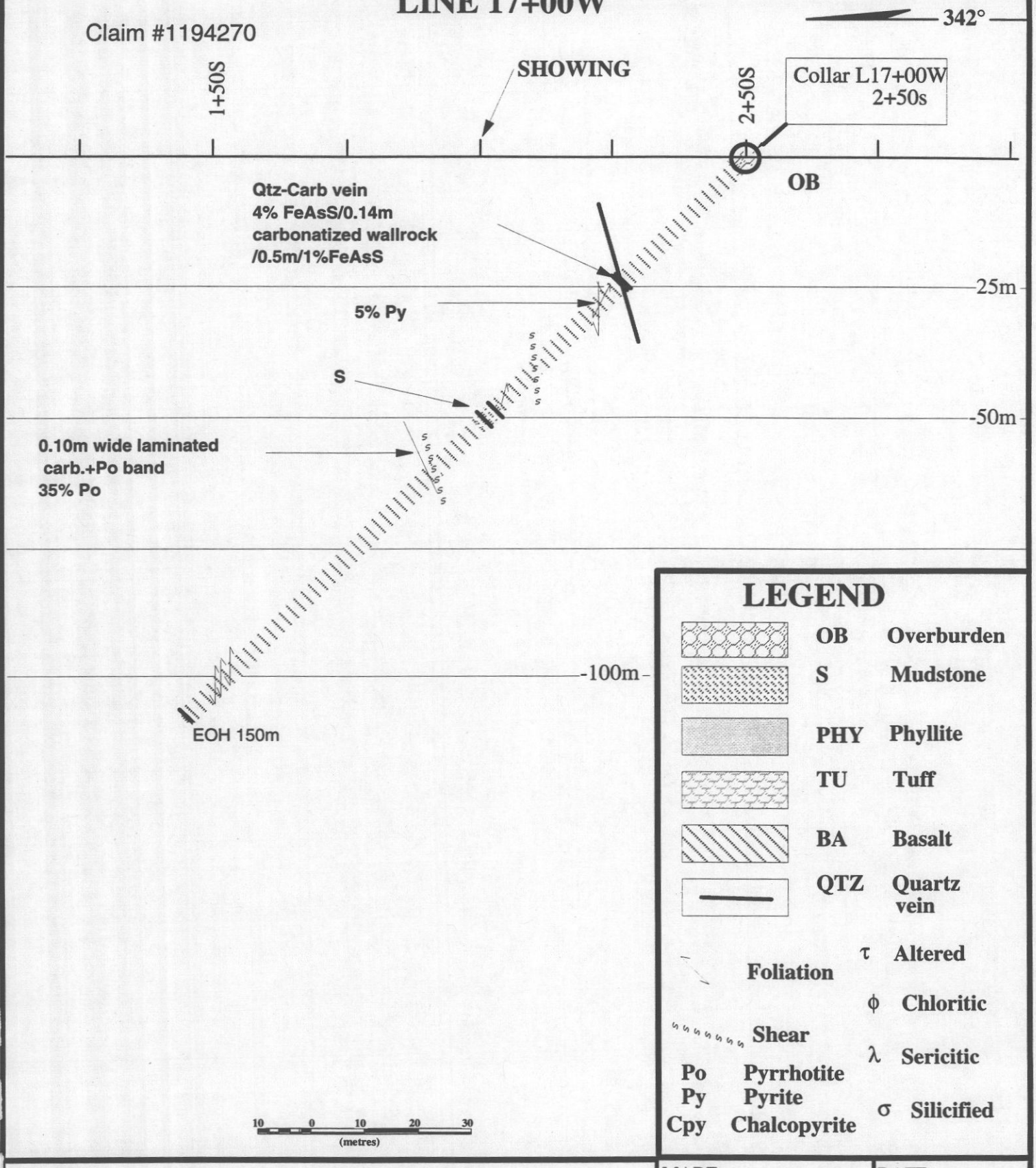
Hole LA-96-13 collared on L 1W at 1+50N targeted a magnetic anomaly within a topographical depression. The hole encountered a chloritic phyllite to a depth of 41.3 metres. From 41.3 to the end of the hole at 150 metres the hole traversed a basalt. A 0.88m wide silicified zone bearing 3% fine disseminated pyrite was encountered at the contact between the phyllite and the basalt. At 45 metres a 2,35 metre wide siliceous shear zone hosting locally up to 10% pyrite and strongly magnetic, magnetite bearing lamellae. From 49.9 to 57.5 metres another siliceous shear zone hosting locally up to 15% pyrite and numerous magnetite bearing bands and traces of graphite was intersected. No anomalous gold values were obtained from this hole. (Fig# 9)

Hole LA-96-14 collared on L2E at 3+00N targeted the western edge of a large magnetic high which traverses the northern part of the property. The hole traversed a chloritic phyllite to a depth of 90 metres. A 1.6 metre banded carbonate intersection hosting 5% pyrrhotite and 1% pyrite was intersected at a depth of 64 metres. From 90 to 403 metres a sequence of mafic to intermediate tuffs was encountered. From 103 to 117 metres a chloritic phyllite was traversed. From 117m to the end of the hole at 150 metres an alternating sequence of tuffs and phyllite was intersected. No gold values were obtained from this hole.(Fig #10)

Hole LA-96-15 collared on L5W at 3+00N targeted an IP anomaly defined by Golden Dragon Resources and Glen Auden Resources in 1990. The hole intersected a basalt to a depth of 62.5 metres with a foliated basalt from 43.6

LINE 17+00W

Claim #1194270



LEGEND

	OB	Overburden
	S	Mudstone
	PHY	Phyllite
	TU	Tuff
	BA	Basalt
	QTZ	Quartz vein
Foliation	τ	Altered
	ϕ	Chloritic
Shear	λ	Sericitic
Po Pyrrhotite		
Py Pyrite	σ	Silicified
Cpy Chalcopyrite		

PROJECT:

LAFONTAINE

GEOLOGICAL SECTION OF DDH LA-96-3

MADE: T. GOETTEL

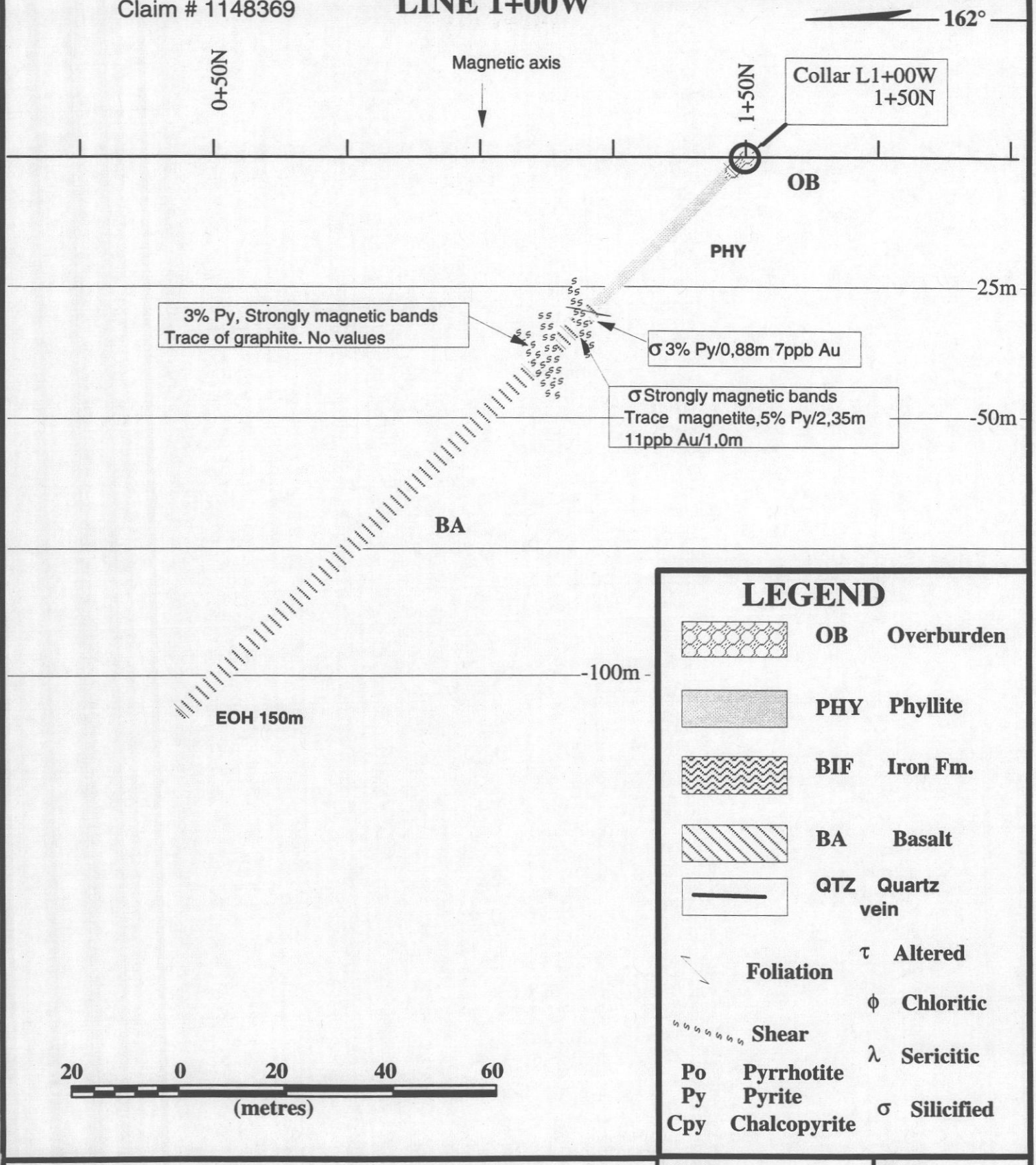
DATE: Nov 1996

SCALE: 1 : 1 000

FIGURE # 8

Claim # 1148369

LINE 1+00W



LEGEND

- OB Overburden
- PHY Phyllite
- BIF Iron Fm.
- BA Basalt
- QTZ Quartz vein
- Foliation
- Shear
- τ Altered
- ϕ Chloritic
- λ Sericitic
- σ Silicified
- Po Pyrrhotite
- Py Pyrite
- Cpy Chalcopyrite

PROJECT:

LAFONTAINE

GEOLOGICAL SECTION OF DDH LA-96-13

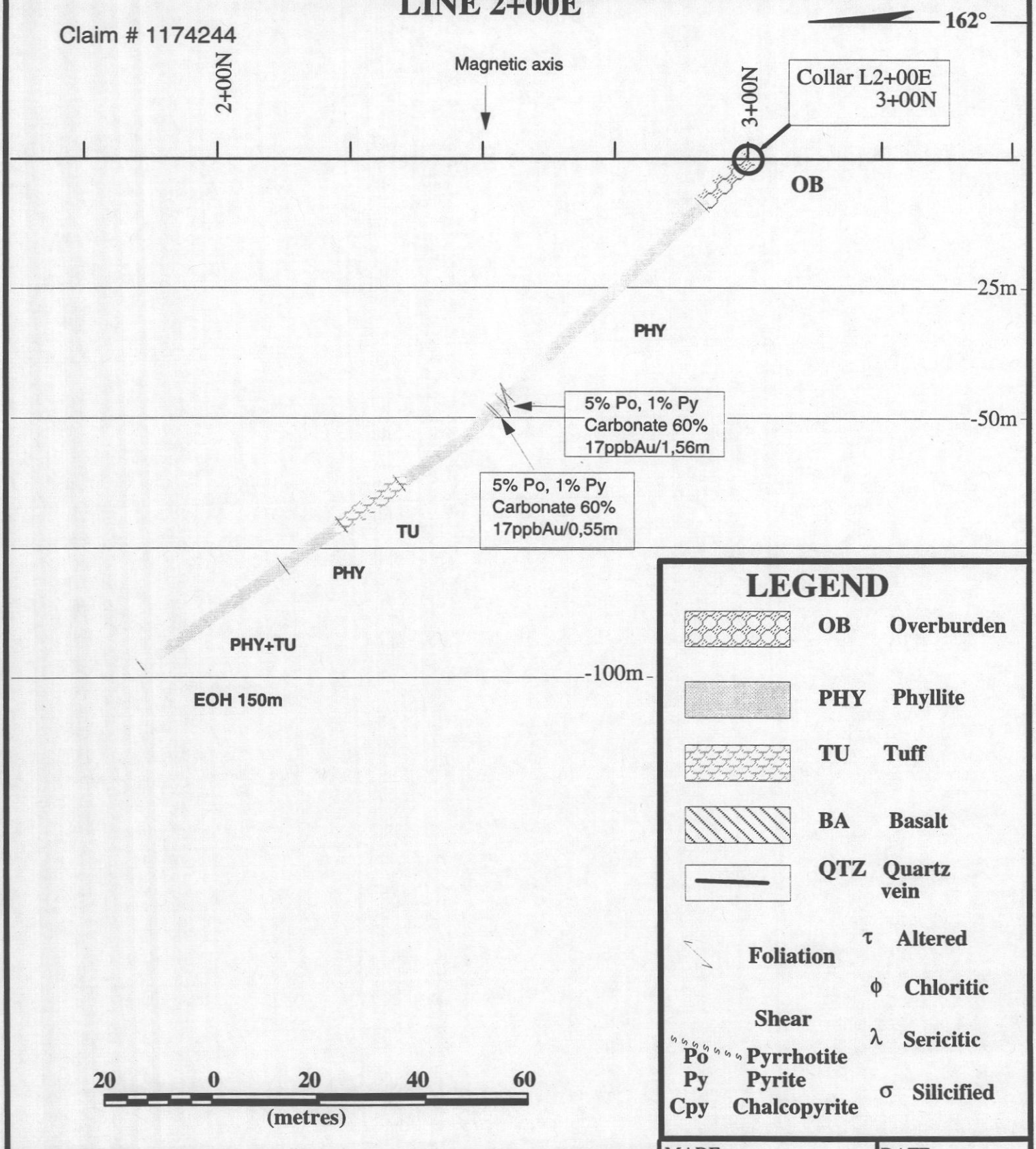
MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 1 000

FIGURE # 9

LINE 2+00E



LEGEND

- OB Overburden
- PHY Phyllite
- TU Tuff
- BA Basalt
- QTZ Quartz vein
- Foliation
- Shear
- Po Pyrrhotite
- Py Pyrite
- Cpy Chalcopyrite
- τ Altered
- ϕ Chloritic
- λ Sericitic
- σ Silicified

PROJECT:

LAFONTAINE

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 1 000

GEOLOGICAL SECTION OF DDH LA-96-14

FIGURE # 10

7.0 THE 1996 EXPLORATION PROGRAM(cont.)

7.0.2 Phase two(cont)

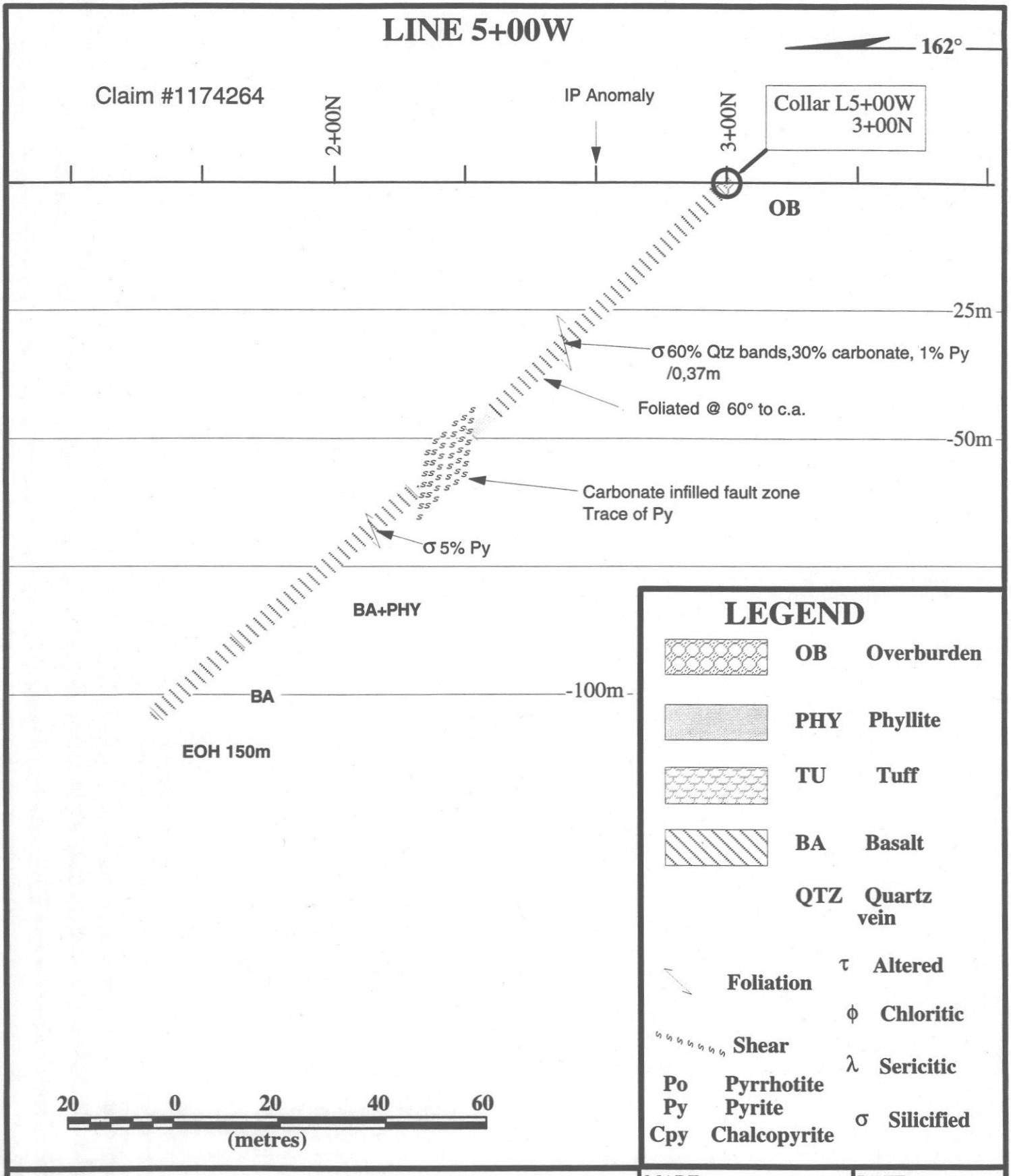
to 65.5 metres. From 62.5 to 69 metres a chloritic phyllite was encountered. From 69 to 85 metres a fault zone consisting of carbonate in filled fractures and brecciated zones. From 85 to 129 metres the rock encountered consists of a basalt with numerous chloritic phyllite horizons. From 129 to the end of the hole at 150 metres the rock consists of a massive basalt. The only sulphides encountered within the hole occur at 43.6 m consisting of 1% pyrite over 0.37 metres, at 44.6 metres consisting of 5% pyrite over 0.74 metres and at 68.8 metres consisting of 5% chalcopyrite over 0.12 metres. No gold values were obtained from this hole. (Fig #11)

Hole LA-96-16 collared on L14E at 8+00 N targeted the possible strike extension of a gold bearing shear located on the adjacent property to the north. The hole traversed a phyllite to a depth of 44 metres, followed by an intermediate tuff to 122 metres. A 0,18 metre wide quartz vein hosting 10% fine disseminated pyrite was intersected at 100.4 metres. From 122 to 150 metres the hole traversed a highly magnetic pyroxenite. The only anomalous gold value obtained from within this hole is 67 ppb occurring within a banded siliceous and carbonate rich horizon hosting 5% pyrite intersected at 40.4 metres.(Fig #12)

Hole LA-96-17 collared on L 15E at 7+25 N targeted a magnetic anomaly. The hole intersected a basalt to 42 metres followed by a mafic to intermediate tuff to 50 metres. From 50 to 69 metres the hole traversed a sequence of tuff and basalt. A 2 metre wide weakly magnetic pyroxenite was intersected at 69 metres. An intermediate tuff followed by a basalt was traversed to a depth of 118 metres. The hole ended in a highly magnetic pyroxenite at a depth of 150 metres. No values were obtained from within this hole.(Fig# 13)

Hole LA-96-7 collared on L 3+45 E at 3+95 S targeted the narrow BIF where two grab samples grading over 1 oz./t Au were obtained (the "F" showing). On the surface , numerous discontinuous iron formation lenses ranging from < 1 metre to 2 metres in width and up to 10 metres in length were uncovered. Over its entire length the hole traversed chloritic phyllite with minor basalt. Three thin iron formations were traversed between 21 and 25 metres. No significant gold values were obtained from the iron formations. A massive 0,14 metre wide arsenopyrite band hosting 50% arsenopyrite and 5% pyrrhotite grading **2,58 g/t Au over 0,20 metres** was intersected at a depth of 37 metres, with a second band 0,07 metres in width hosting 20% pyrrhotite and 10% arsenopyrite graded **207 ppb Au/ 0,12 metres**. The down dip extension of the high grade surface showing was not intersected by this hole. This could be because the iron formation plunges or simply because it is a lens. (Fig# 14)

LINE 5+00W



LEGEND

OB	Overburden		
PHY	Phyllite		
TU	Tuff		
BA	Basalt		
QTZ	Quartz vein		
Foliation		τ	Altered
		ϕ	Chloritic
Shear		λ	Sericitic
Po	Pyrrhotite		
Py	Pyrite	σ	Silicified
Cpy	Chalcopyrite		

PROJECT: **LAFONTAINE**

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 1 000

GEOLOGICAL SECTION OF DDH LA-96-15

FIGURE # 11

LINE 14+00E

Claim # 1174250

162°

7+00N

8+00N

Collar L14+00E
8+00N

OB

PHY

25m

σ 20% Qtz, 60% carbonate, 5% Py
67ppb Au/0,17m

-50m

TU

4P

-100m

EOH 150m

20 0 20 40 60
(metres)

LEGEND

	OB	Overburden
	4P	Pyroxenite
	PHY	Phyllite
	TU	Tuff
	BA	Basalt
	QTZ	Quartz vein

Foliation

Shear

τ Altered

ϕ Chloritic

λ Sericitic

σ Silicified

Po Pyrrhotite
Py Pyrite
Cpy Chalcopyrite

PROJECT:

LAFONTAINE

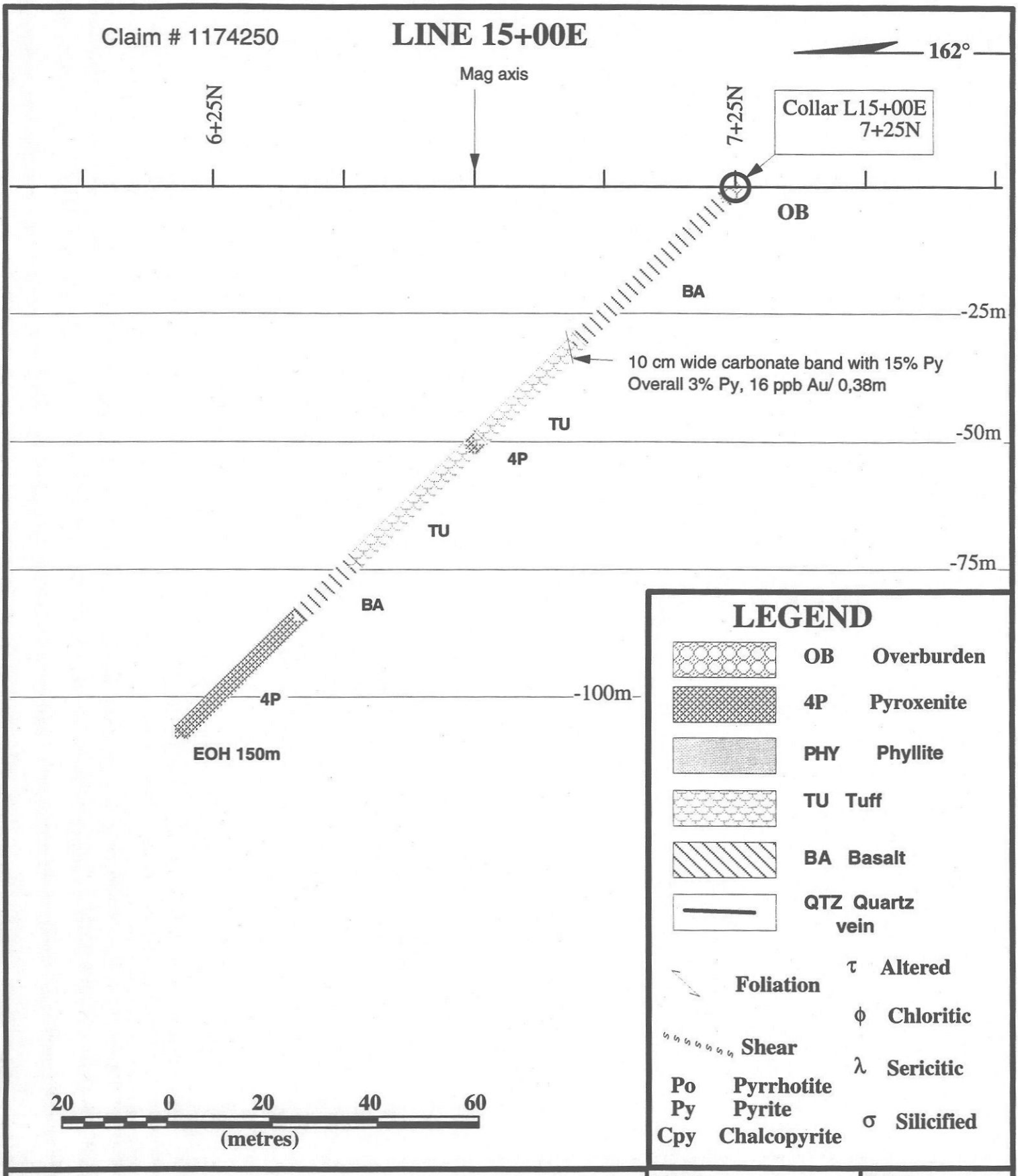
GEOLOGICAL SECTION OF DDH LA-96-16

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 1 000

FIGURE # 12



PROJECT:

LAFONTAINE

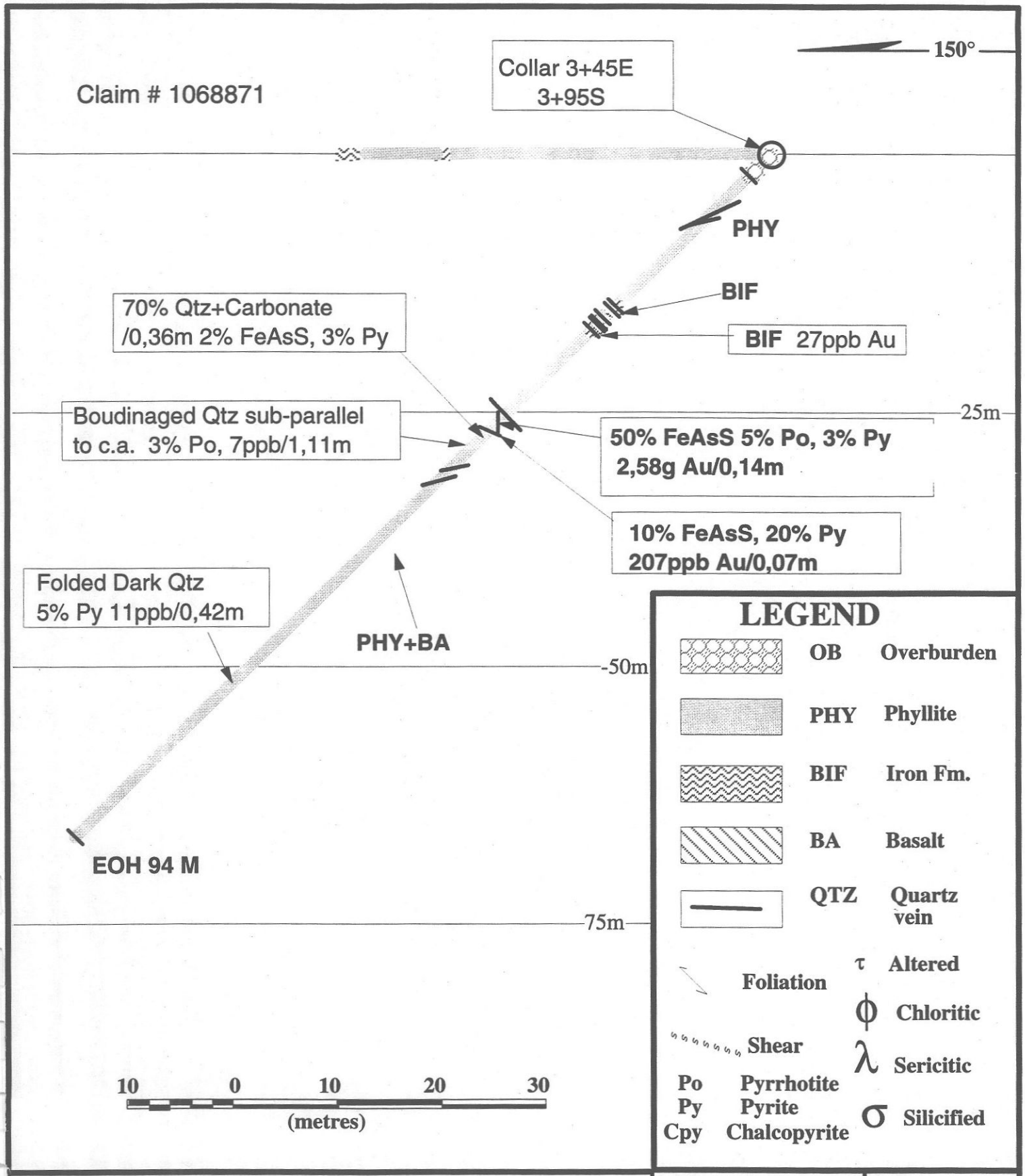
GEOLOGICAL SECTION OF DDH LA-96-17

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 1 000

FIGURE # 13



PROJECT:

LAFONTAINE

GEOLOGICAL SECTION OF DDH LA-96-07

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

FIGURE # 14

7.0 THE 1996 EXPLORATION PROGRAM(cont.)

7.0.2 Phase two(cont)

Holes LA-96-4,5 and 6 targeted the Buffalow Beardmore showing. Numerous BIFs occur on the surface of this showing (Fig# 5). Drilling underneath the showings indicate the complex structure of the BIFs.

Hole LA-96-4 intersected two siliceous iron formations **with no cross cutting quartz veins.** (Fig# 15) Only one anomalous value of 81 ppb Au over 1.33 metres was obtained from within this hole.

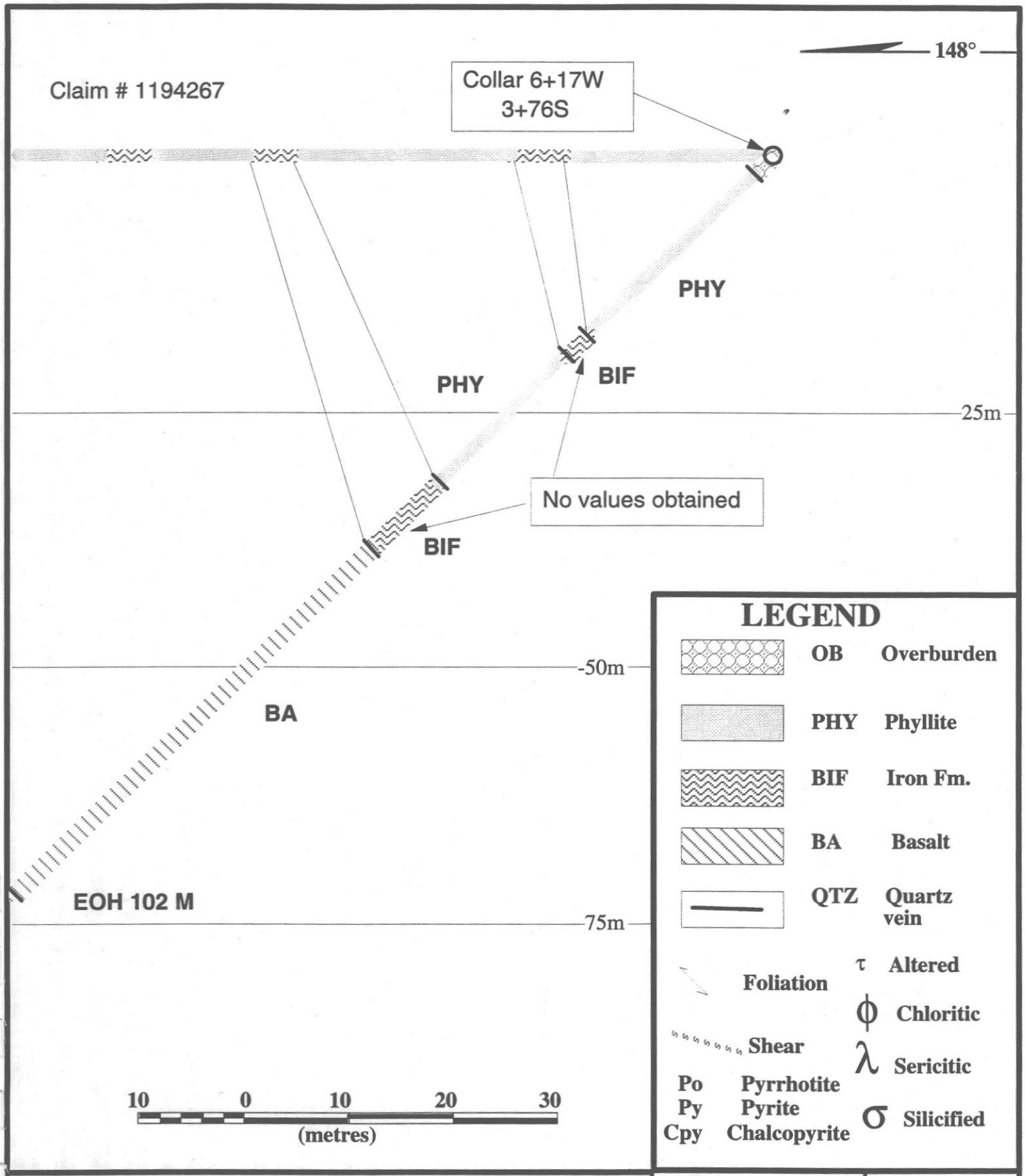
Hole LA-96-5 intersected a 23 metre wide BIF from 12 to 35 metres , which is difficult to correlate with the surface showings. A 0,43 metre intersection with 20% quartz stringers hosting 10% pyrrhotite , 3% pyrite and 2% arsenopyrite at a depth of 30 metres gave disappointing value of only 19 ppb Au. Another well mineralized intersection with 15% quartz veins and hosting 8% pyrrhotite, 3% pyrite and 5% arsenopyrite graded **345 ppb Au over 0.40 metres.** A second BIF intersected from 49 to 53 metres could be the down dip extension of the iron formation in which the old shaft is located on . Although some quartz veining was intersected, sulphides were lacking in quantity and no gold values were obtained. (Fig# 16)

Hole LA-96-6 was drilled down dip of the BIF close to the old shaft. This was done to determine the frequency of the flat quartz veins along dip of the formation. From the collar to a depth of 24 metres the hole traversed the BIF. Numerous flat and high angle quartz veins were defined The high angle quartz veins have minor amounts of sulphides associated with them and no gold values were obtained. Although many well mineralized intersections were obtained, gold values are low and erratic. The highest value obtained is **1,07 g/t Au over 0.27 metres.** From 24 to 40 metres the hole intersected the contact between the BIF and phyllite. (Fig# 17)

Holes LA-96-1, 2, 8, 9, 10, 11 and 12 were all drilled on the newly discovered "main BIF" which consists of the two BIFs uncovered by the 450 metre long stripping. (Fig# 7)

Hole LA-96-1 Collared on L0+70 E at 2+10 S was drilled at a dip of 45° to determine the dip of the main BIF. The hole traversed a phyllite to a depth of 46 metres, followed by an 8,82 metre BIF and then , to the end of the hole at 99 metres ,a basalt. A 1,34 metre quartz vein cross cuts the iron formation at a depth of 47 metres . The last 0.72 metres of the vein hosts 10% pyrite as fracture in fill and grades **201 ppb Au** . A 0,50 metre siliceous and grunerite rich iron formation adjacent to the quartz vein hosting 2% fine disseminated pyrite grades **1,87 g/t Au.** (Fig# 18)

Hole LA-96-2 collared on L 0+40 W at 2+72 S was also drilled at a dip of 45°. The hole traversed a chloritic phyllite to a depth of 45 metres followed by a basalt to 52 metres. A 4,1 metre intersection of BIF was intersected from 52,50 to 56,60 metres, followed by a basalt to the end of the hole at 99 metres.



PROJECT:

LAFONTAINE

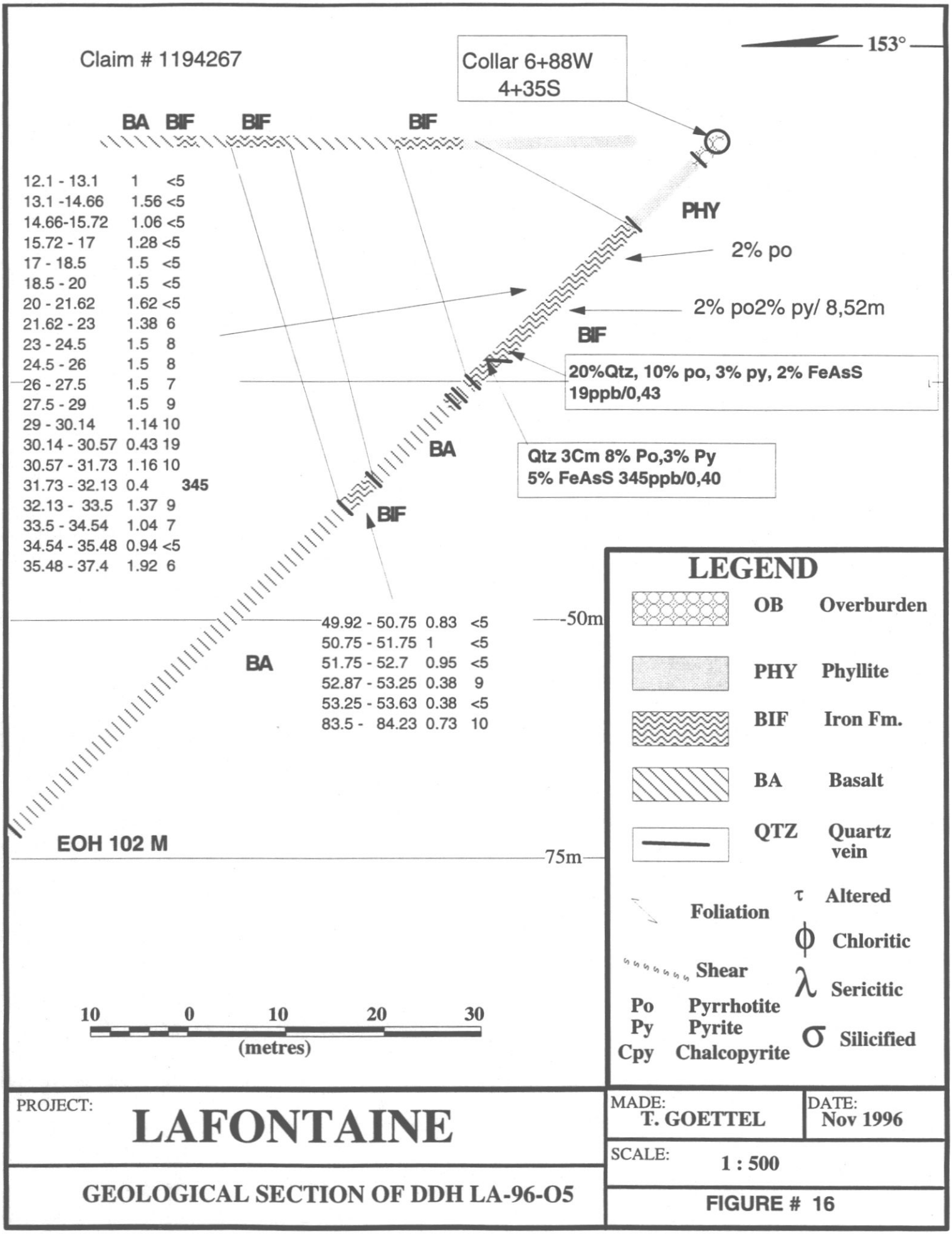
GEOLOGICAL SECTION OF DDH LA-96-O4

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

FIGURE # 15



PROJECT:

LAFONTAINE

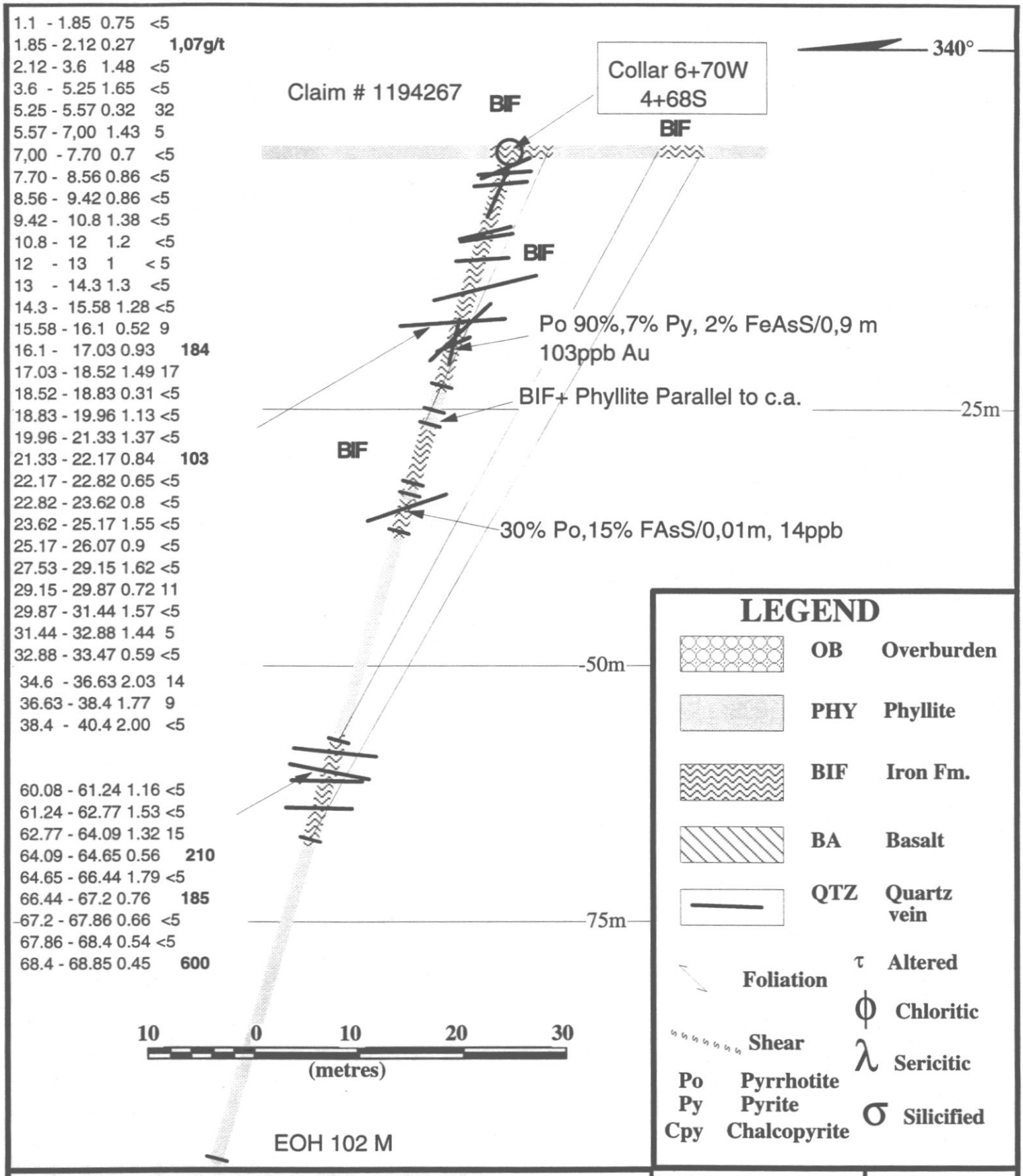
GEOLOGICAL SECTION OF DDH LA-96-05

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

FIGURE # 16



PROJECT: **LAFONTAINE**

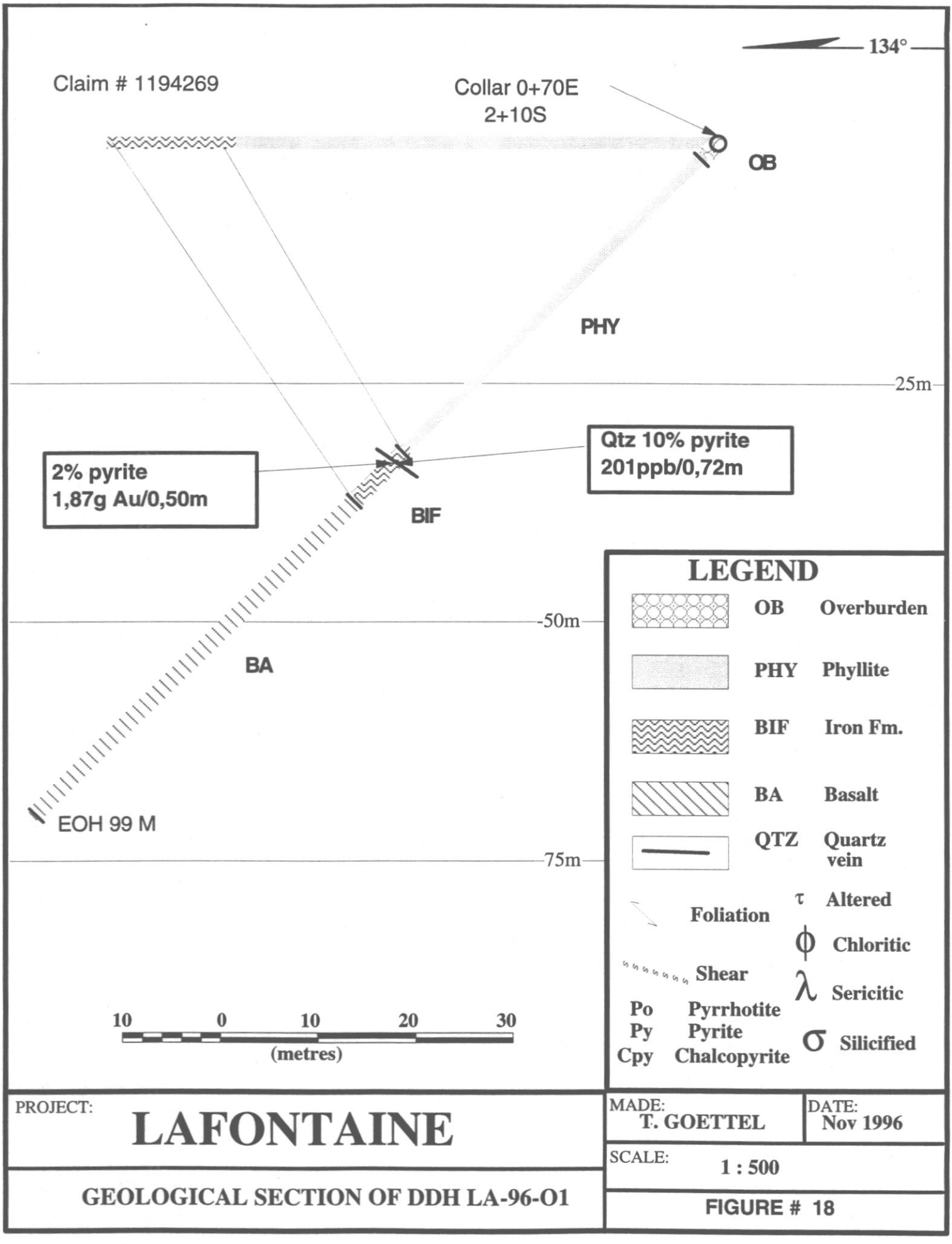
MADE: **T. GOETTEL**

DATE: **Nov 1996**

SCALE: **1 : 500**

GEOLOGICAL SECTION OF DDH LA-96-O6

FIGURE # 17



PROJECT:

LAFONTAINE

GEOLOGICAL SECTION OF DDH LA-96-01

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

FIGURE # 18

7.0 THE 1996 EXPLORATION PROGRAM(cont.)

7.0.2 Phase two(cont)

A 0,63 metre quartz vein cross cuts the unit. Sulphides consisting of pyrrhotite, pyrite and arsenopyrite occur throughout the iron formation in amounts varying between 3 to 15%. Grades vary between **301 ppb Au to 1,65 g/t Au**. (Fig# 19)

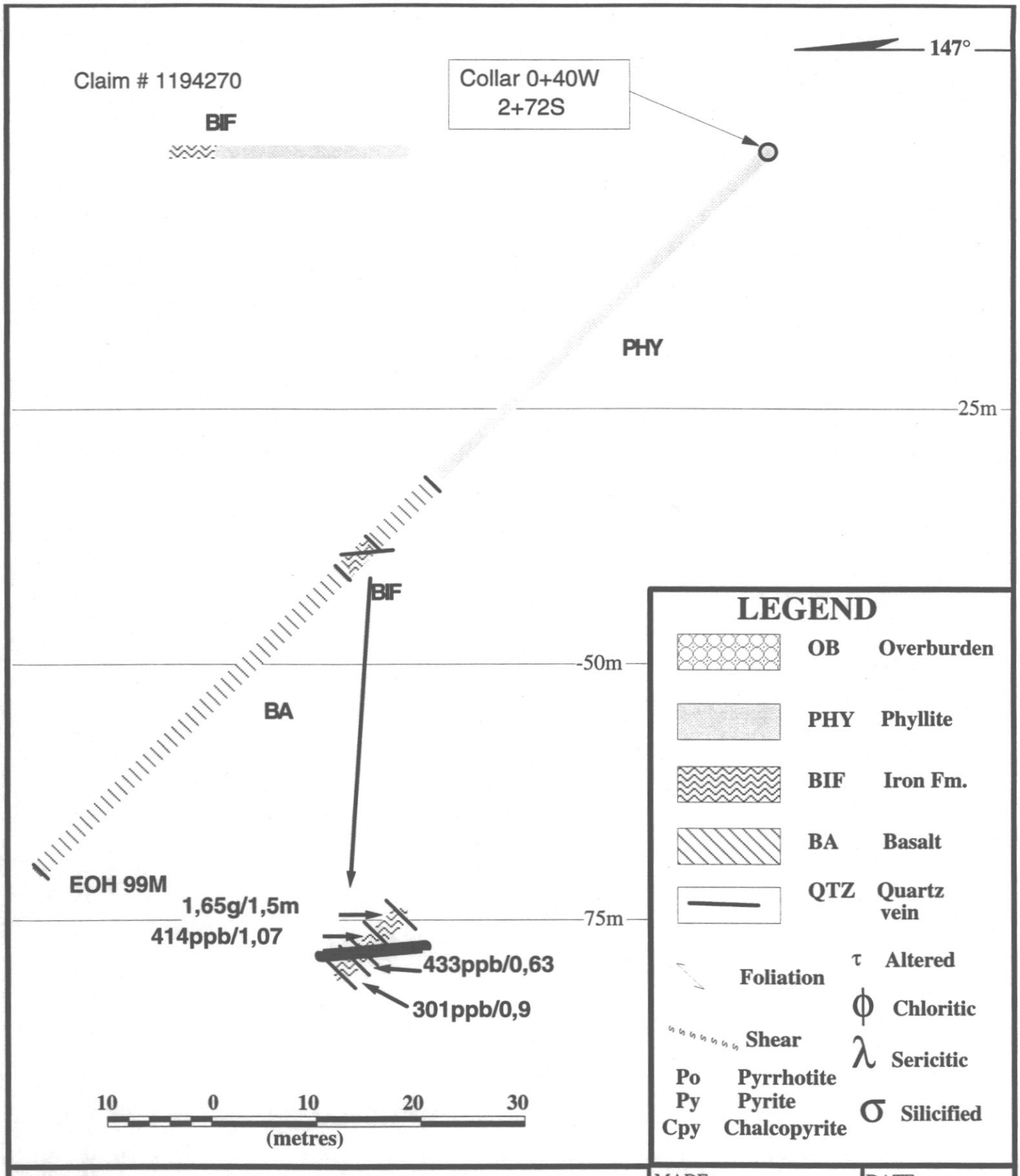
Hole LA-96-8 collared on L 2+76 E at 2+20 S targeted the 120 metre long part of the "main BIF". The hole was drilled with a dip of 70° in order to obtain a longer intersection of the BIF. Unfortunately the hole failed to intersect the iron formation. This could be due to a change in the dip , the iron formation could be plunging or that it is lenticular and that it has no depth extent. (Fig# 20)

Hole LA-96-9 collared on L 1+25 E at 2+07 S targeted the eastern most part of the 250 metre long part of the "main BIF". This hole was also drilled with a dip of 70°. The hole traversed a basalt followed by a chloritic phyllite to a depth of 67,5 metres. From 67,51 to 71,95 metres the hole intersected a BIF. Minor amounts of quartz veining is present and sulphides consisting of pyrrhotite and arsenopyrite occur from 2 to 7%. The best values obtained are **435 ppb Au over 1,05 metres and 162 ppb over 0,37 metres**. The hole ended in a basalt at a depth of 90 metres (Fig# 21)

Hole LA-96-10 collared on L 0+52 W at 3+00 S intersected a phyllite to a depth of 47 metres. From 47 to 60 metres the hole traversed a BIF, and terminated in a basalt at 90 metres. Numerous quartz veins cut across the iron formation and sulphides of up to 50% consisting of arsenopyrite, pyrite and pyrrhotite occur. Values of up to **893 ppb Au over 0,97 metres** were obtained. (Fig# 22)

Hole LA-96-11 collared on L 0+10 E at 2+82 S, drilled with a dip of 80°. The hole traversed a phyllite to 43 metres followed by a basalt to 51 metres. From 50,66 to 63.34 metres a BIF was intersected. To 59,79 metres the iron formation has numerous quartz veins and is fairly well mineralized with up to 40% arsenopyrite and 10% pyrrhotite. The best value obtained is **3,22 g/t Au over 0,16 metre and with 5 intersections > 100ppb**. The hole terminated in a basalt at a depth of 102 metres. (Fig# 23)

Hole LA-96-12 collared on L 0+06 E at 3+15 S was drilled along dip of the BIF to determine the frequency of the flat quartz veins along the dip of the iron formation. The hole was within the iron formation to a depth of 66 metres. Numerous quartz veins were intersected to a depth of 50 metres. Values of up to **3.32g/t Au over 1,16 metres** were obtained in the first 50 metres and it is interesting to note that numerous values over 100 ppb Au and up to **1.81 g/t Au** were obtained in the last 16 metre intersection of the iron formation lacking quartz veins. The hole ended in a phyllite at a depth of 99 metres. (Fig# 24)



PROJECT:

LAFONTAINE

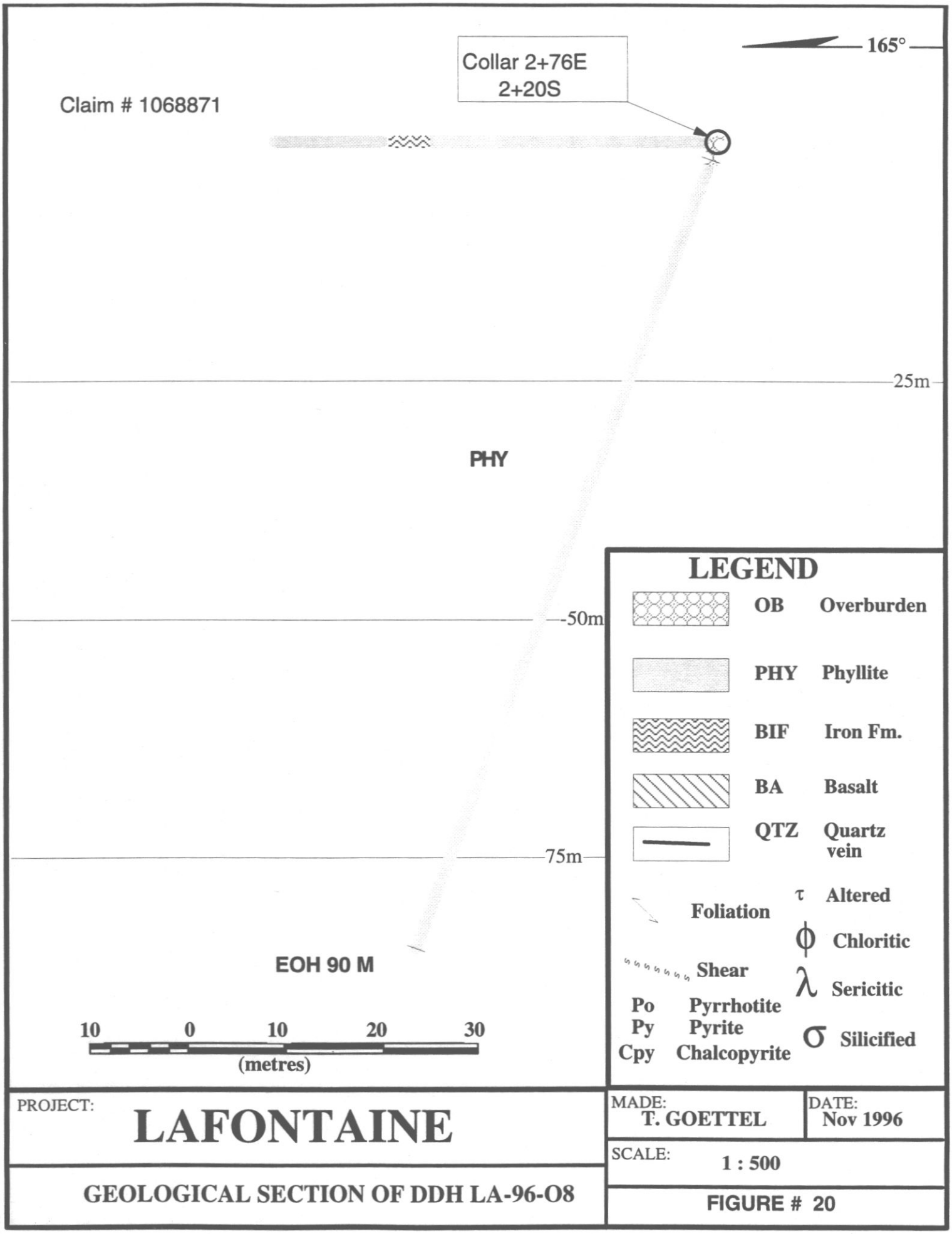
GEOLOGICAL SECTION OF DDH LA-96-O2

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

FIGURE # 19



PROJECT:

LAFONTAINE

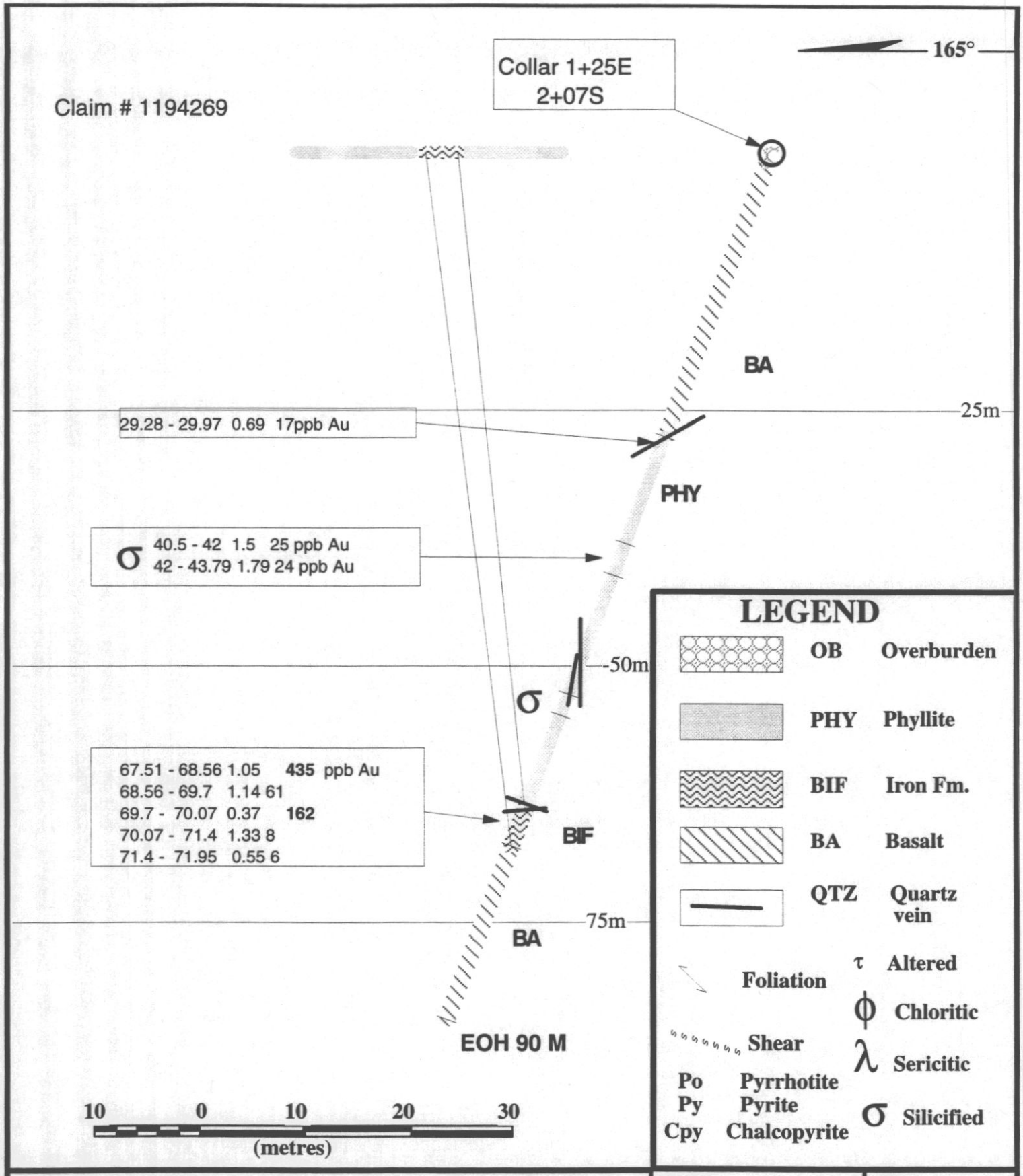
GEOLOGICAL SECTION OF DDH LA-96-O8

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

FIGURE # 20



PROJECT:

LAFONTAINE

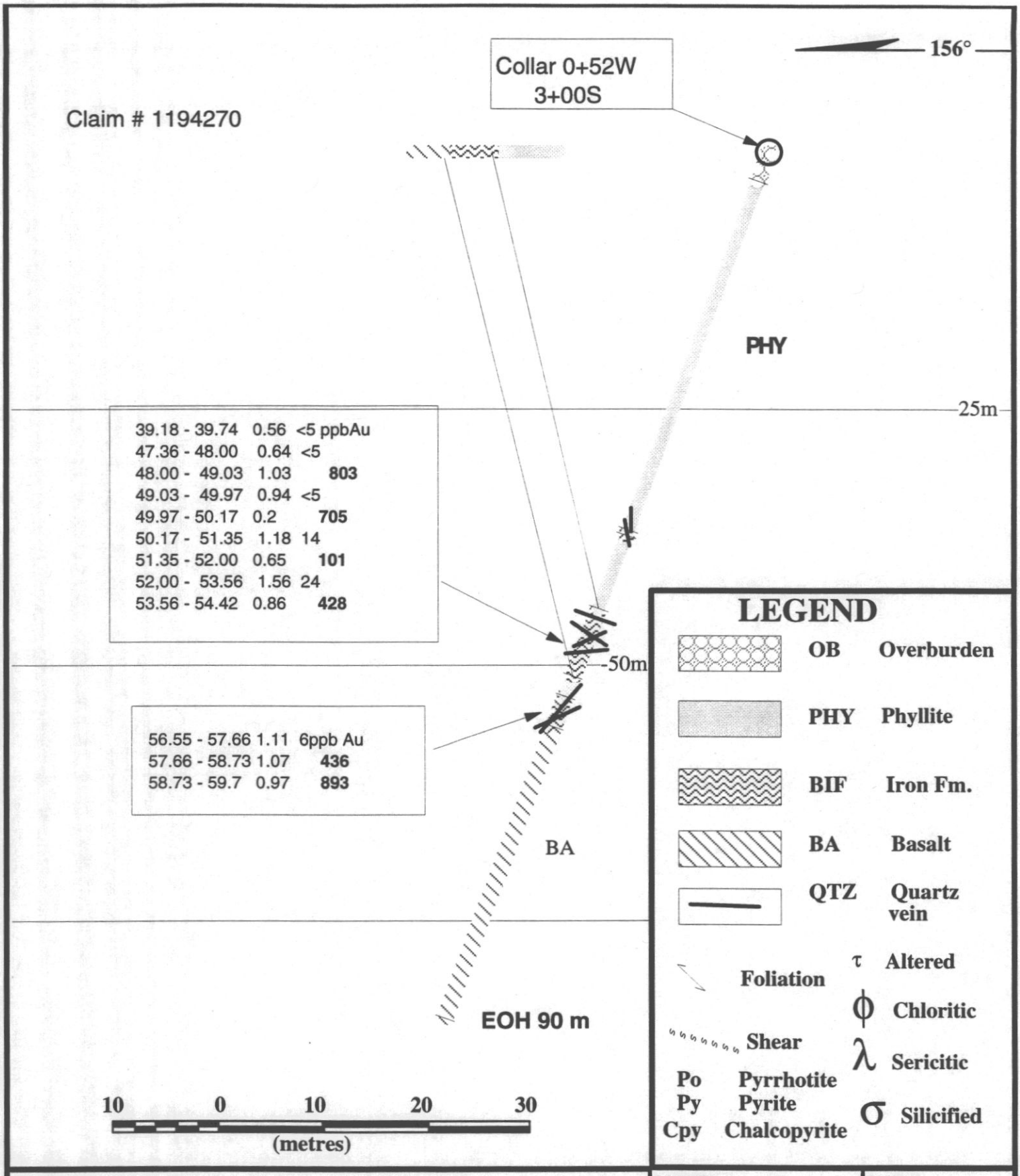
MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

GEOLOGICAL SECTION OF DDH LA-96-09

FIGURE # 21



PROJECT:

LAFONTAINE

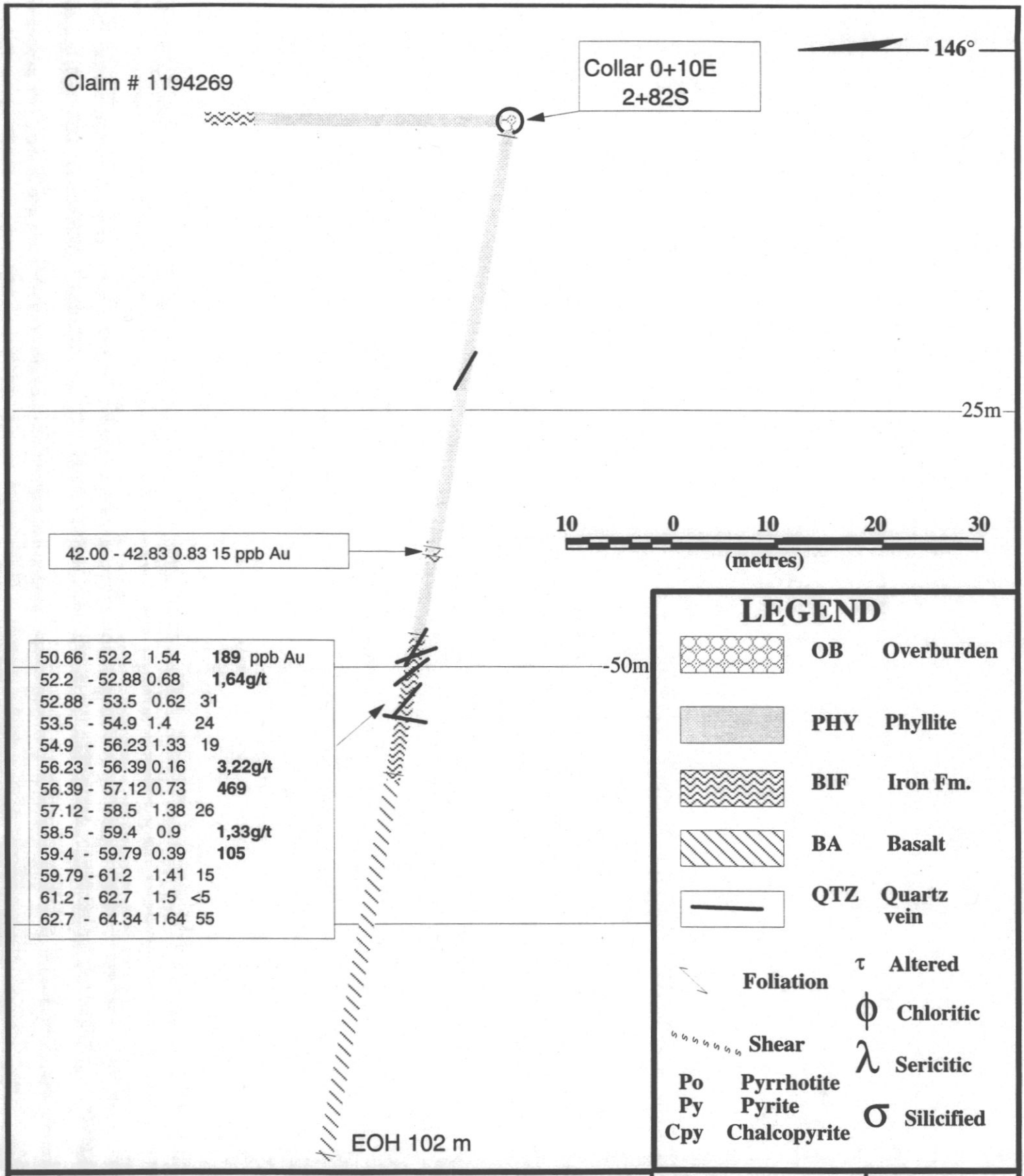
GEOLOGICAL SECTION OF DDH LA-96-10

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

FIGURE # 22



PROJECT:

LAFONTAINE

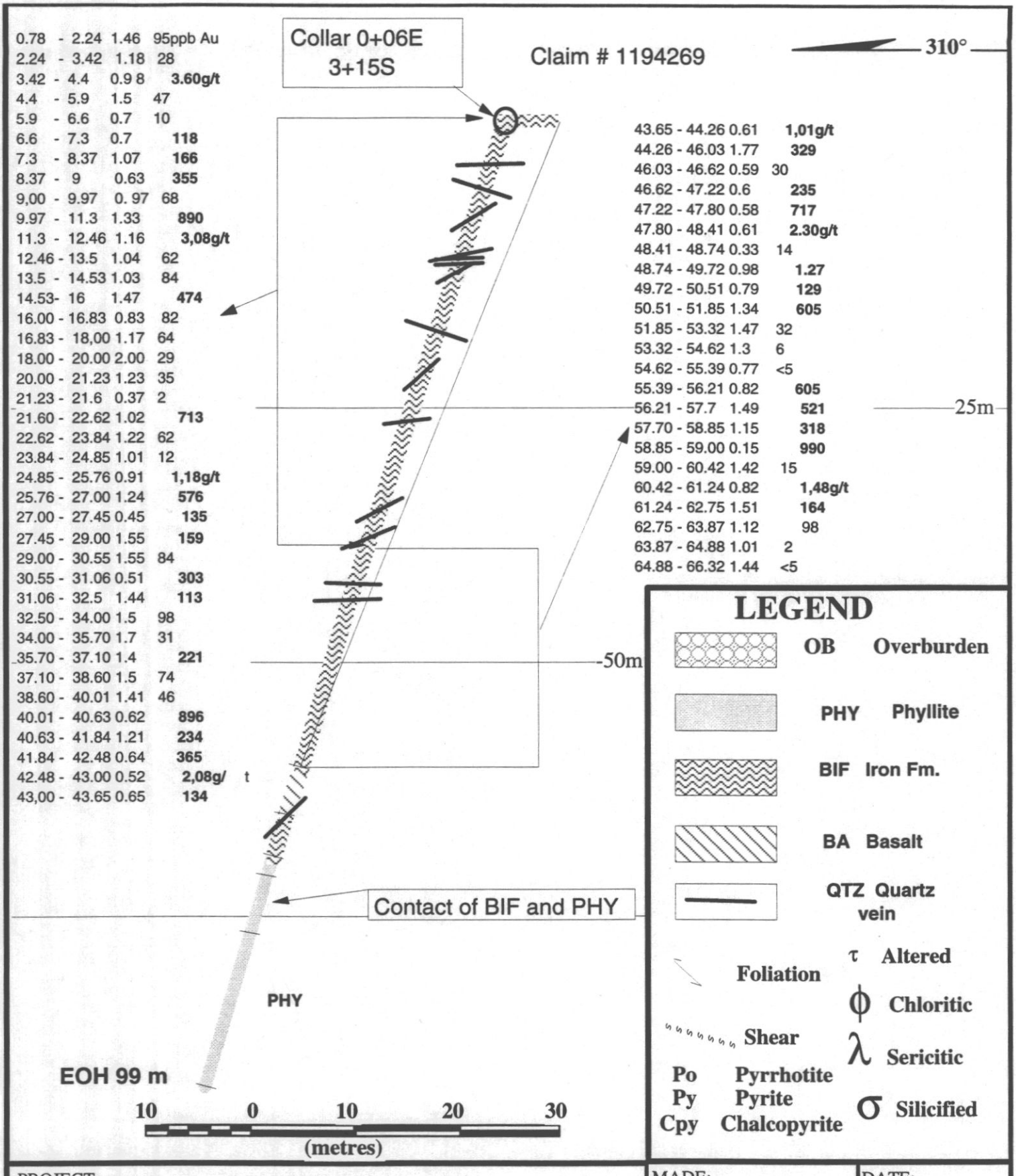
GEOLOGICAL SECTION OF DDH LA-96-11

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

FIGURE # 23



PROJECT:

LAFONTAINE

GEOLOGICAL SECTION OF DDH LA-96-12

MADE: T. GOETTEL

DATE: Nov 1996

SCALE: 1 : 500

FIGURE # 24

7.0 THE 1996 EXPLORATION PROGRAMME

7.0.2 Phase two(cont)

One hundred and fifteen samples were re assayed at Bourlamaque Assay Laboratories Ltd. Pulps and rejects were assayed and the values obtained were in general higher than those obtained from CHEMITEC. When averaging the three values obtained by taking the ((original value + value of pulp re assay) / 2+ the assay of the reject) / 2 **the new values were approximately 20% higher than the original value**. All of the values stated on the sections are the original values.

7.2 THE 1997 EXPLORATION PROGRAM

The 1997 exploration program consisted of a phase one of verifying the numerous magnetic anomalies on the property along with " showings" from archives. Phase two consisted of a seven hole diamond drilling program totalling 1 113 metres.

7.2.1 Phase one

The" Canadian and Anglo-Beardmore discovery" was located. Old trenches over barren quartz veins were located and sampled. The quartz veins are white and range in width from < 1metre to 1,5 metres. Assay results revealed that the vein material is barren of gold.

Verification of the area between L4W at 6+00S and L5W at 6+50S revealed a shear zone with small lenses of iron formation. One sample of a sheared basalt hosting 10 to 15% pyrite and magnetite and sugary quartz grades 16ppb Au while a second sample containing 10% pyrite grades 6ppb Au.

Verification of the area to the south of the two claims not belonging to the claim group revealed that a part of a trench done by Goldbrooke, during the winter 1996, overlapped onto the present day property. A mineralized shear was uncovered. The shear is up to 2 metres in width and locally hosts up to 20% pyrite. Grab samples returned values of **286 and 82 ppb Au.**

A series of old pits were located between lines 9W and 11W @ 9+50 S. The trenches exposed a shear zone striking 260°, In certain pits the shear hosts massive pyrrhotite and pyrite. A grab sample of the massive mineralization returned no gold value.

Most of the trenches done by A. Lafontaine were examined and mineralized zones were sampled. The rocks exposed consist mostly of basalts and of phyllites which are interpreted to be sheared basalts, and of shear zones. Sulphides consisting of massive pyrrhotite and pyrite to disseminated pyrite and pyrrhotite. Most of the mineralization occurs within shear zones. The highest value obtained from this type of mineralization is **345 ppb Au** .(Fig # 32)

7.2 THE 1997 EXPLORATION PROGRAM(cont.)

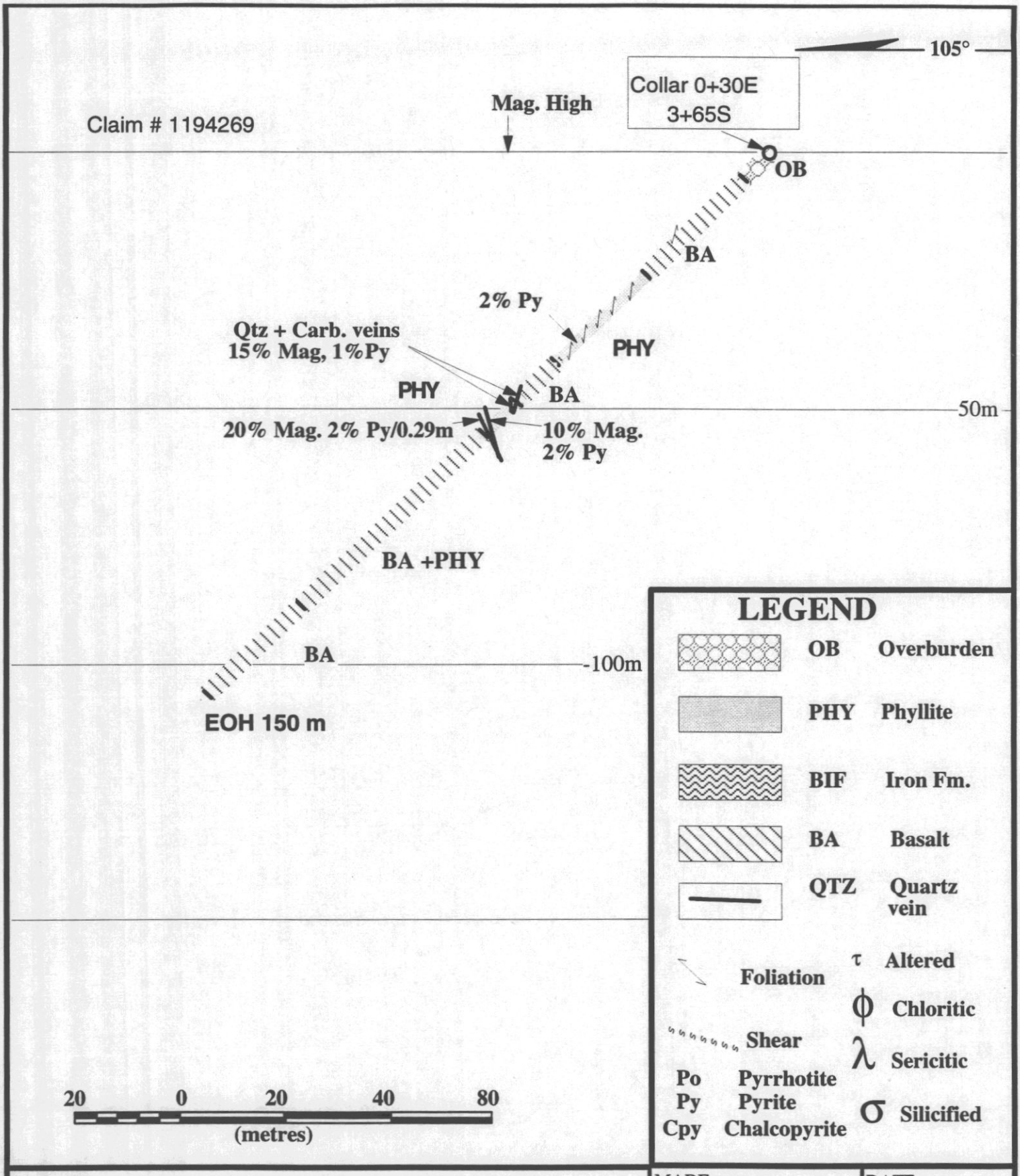
7.2.2 Phase two

The diamond drilling campaign consisted of the drilling of seven holes totalling 1 113 metres. The following is a short summary of each hole:

Hole LA-97-1 collared on L0+30E at 3+65S was drilled at an azimuth of 105°, targeted an interpreted "fold nose" from magnetic data. The hole traversed a sequence of basalt and phyllite. The magnetic highs are caused by thin magnetite rich quartz carbonate veins. No gold values were obtained from within this hole. (Fig#25)

Hole LA-97-2 collared on L0+70W at 1+10S drilled at azimuth 147°, targeted the "main BIF" at a vertical depth of 200 metres. The hole was collared in the area of the "arsenopyrite Fault". From 32,9 to 40,5 metres the hole traversed a dolomitized basalt, hosting a 2 cm wide quartz vein bearing 1% arsenopyrite. A value of 20ppb Au was obtained from the vein. Another vein hosting 2% arsenopyrite over 0,33 metres was intersected at a depth of 90 metres. A value of 62ppb Au was obtained from this vein. From 109 to 145 metres the hole traversed siliceous black chlorite rich horizons hosting up to 20% pyrite. These horizons returned low Au values of 12 and 26 ppb. A deformation zone hosting 20% pyrite was encountered from 143 to 144 metres, which returned a value of 13 ppb Au. From 158 to 201 metres an intermediate tuff was intersected. At 180 metres a 0,56 metre zone hosting 15% pyrite returned a value of 80 ppb Au. The "Main BIF" was encountered from 212 to 220 metres. No cross cutting quartz veins were observed. The iron formation is very siliceous and hosts approximately 5% pyrite + pyrrhotite and traces of arsenopyrite, with horizons bearing up to 25% pyrrhotite. From 214,46 to 215,68 metres the unit hosts 15% pyrite and trace of arsenopyrite, occurring as a two cm wide semi massive arsenopyrite band. The unit returned a value of **558ppb Au over 1,22 m**. The hole terminated within a pyroxenite which was intersected at 243 metres. (Fig# 26)

Hole LA-97-3 targeted a magnetic high to the west of the " Main BIF". The hole traversed a basalt with sheared zones (phyllite) and four BIF units. A 1,2 metre highly foliated zone hosting 30% pyrite was encountered at 8 metres. The mineralized zone is barren of gold. The first 0,70 metre wide BIF encountered at a depth of 80 metres consists of a chert and magnetite rich iron formation with 2% pyrite + pyrrhotite, No gold values were obtained from within this unit. A second BIF measuring 2,13 metres in width was encountered at 81,6 metres, which is very similar to the first, with 5% pyrrhotite and traces of pyrite. A value of 28 ppb Au was obtained. The third iron formation was encountered at 86,2 metres measures 3 metres in width, is cross cut by quartz veins and hosts pyrrhotite, pyrite and arsenopyrite.



PROJECT:

LAFONTAINE

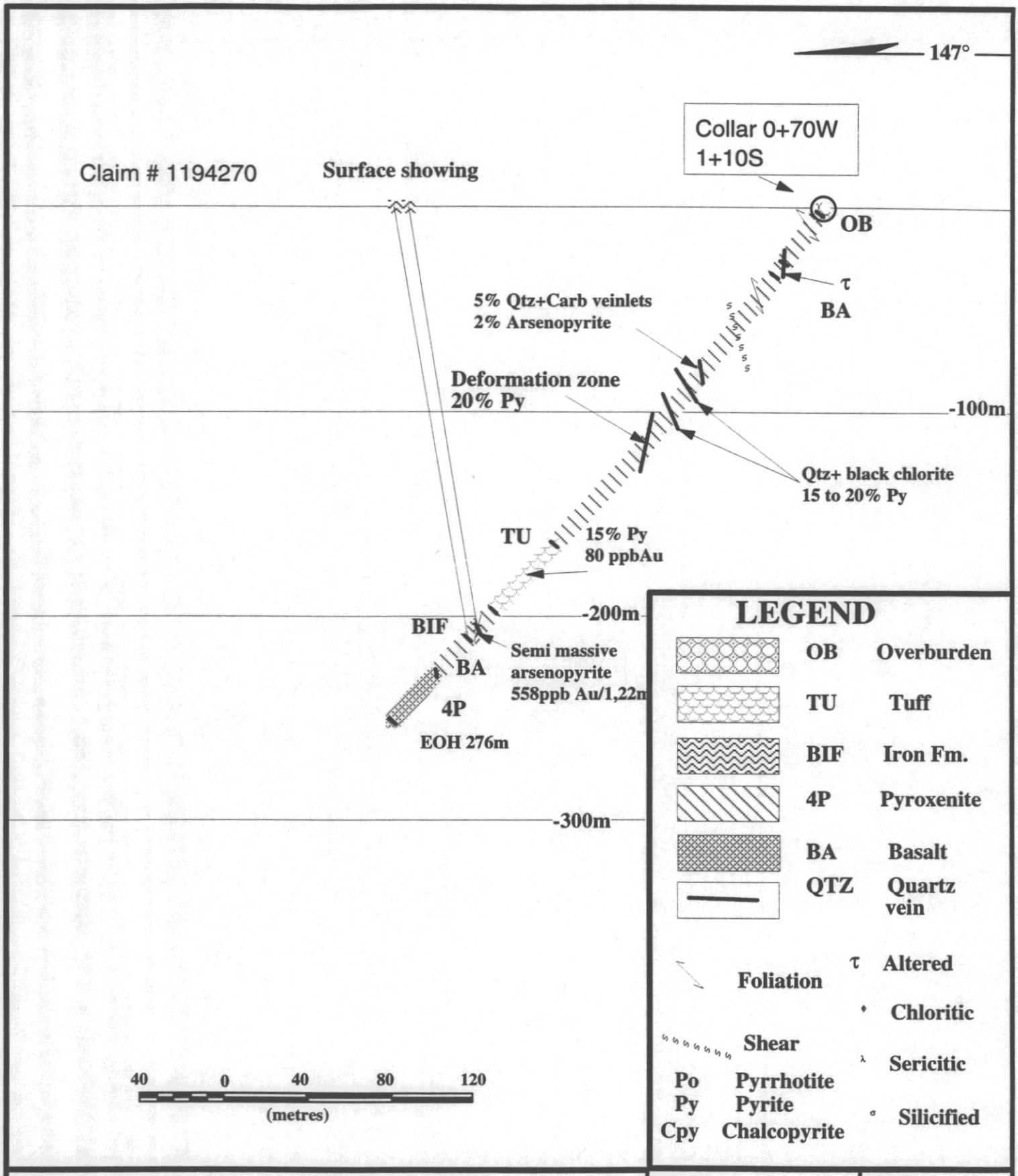
GEOLOGICAL SECTION OF DDH LA-97-1

MADE: T. GOETTEL

DATE: Dec 1997

SCALE: 1 : 1 000

FIGURE # 25



PROJECT:

LAFONTAINE

GEOLOGICAL SECTION OF DDH LA-97-2

MADE: T. GOETTEL

DATE: Dec 1997

SCALE: 1 : 2 500

FIGURE # 26

7.2 THE 1997 EXPLORATION PROGRAM(cont.)

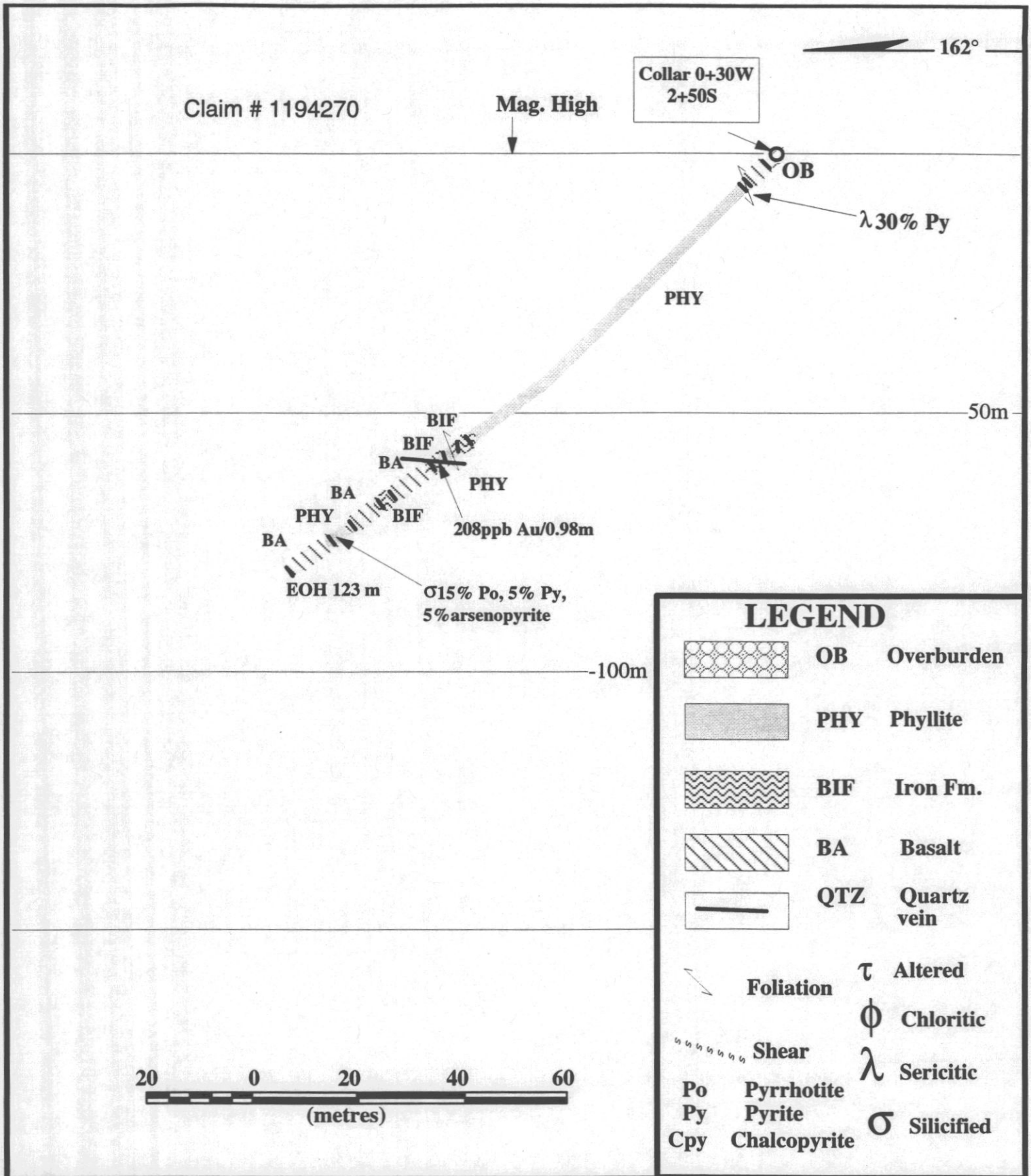
7.2.2 Phase two(cont)

Values of **208 ppb Au over 0,98 metres and 91 ppb Au over 0,93 metres** were obtained. A fourth iron formation, measuring 2,7 metres in width, was traversed at 98 metres, is grunerite rich bears 15% white quartz veins and hosts 2 to 3% pyrrhotite. No gold values were obtained from this intersection. The hole ended in a basalt at 123 metres. (Fig # 27)

Hole LA-97-4 collared on L3+75E at 1+50S targeted a magnetic high to the east of the "Main BIF". The hole traversed a basalt with three 0,5 metre wide black chlorite rich siliceous bands hosting up to 25% pyrite and up to 5% pyrrhotite. The basalt is sheared from 93 metres to the end of the hole at 123 metres. No gold values of interest were obtained from this hole.(Fig # 28)

Hole LA-97-5 collared on L6+40E at 5+50S targeted the "D" showing, which consists of a BIF. Values of up to 6,21 g/t Au were obtained from the showing. A 6,4 metre BIF was encountered from 54 to 61 metres. The BIF is very siliceous with up to 85% dark chert bands. Two quartz veins cut across the formation. Sulphides consist of up to 5% pyrite and up to 5% pyrrhotite. No arsenopyrite was noted. Magnetite makes up to 10% of the rock in certain horizons. The highest value of **247 ppb Au over 0,76 metres** was obtained from the iron formation adjacent to a quartz vein. A two metre wide BIF was traversed at 80 metres. It is siliceous (75% chert), 10% magnetite and hosts 1 to 2% pyrite. No gold values were obtained from this zone. At 98 metres, a 1,54 metre wide BIF was encountered. The formation consists of 75% chert, 23% mafic bands and 2% magnetite. Sulphides consist of up to 20% pyrite. A 0,32 metre quartz vein occurs at the downhole contact of the iron formation. The vein is white and bears trace of pyrite. Values of **228 ppb Au over 0,32 metres** from the quartz vein and **113 ppb Au over 0,31 metres** from the iron formation adjacent to the quartz vein bearing 20% pyrite were obtained.(Fig # 29)

Hole LA-97-6 collared on L3E at 9+50S targeted surface showings of shear zones hosting pyrrhotite. A long airborne VLF anomaly traverses this area and at 600 metres to the north east along the anomaly, surface grab samples returned values of up to **286 ppb Au**. The hole traversed a basalt with numerous massive to semi massive thin bands of pyrrhotite and pyrite. The rock exhibits deformation from 48 to 70 metres. From 74 to 141 metres the rock consists of pillowed basalt. Two thin black chlorite horizons were intersected at 76 and 87 metres. The zones host from 20 to 30% pyrrhotite. The highest gold value obtained is 40 ppb from a 0,61 metre wide siliceous black chlorite rich band bearing 30% pyrrhotite and 5% pyrite. Numerous values between 12 and 28 ppb were obtained.(Fig # 30)



PROJECT:

LAFONTAINE

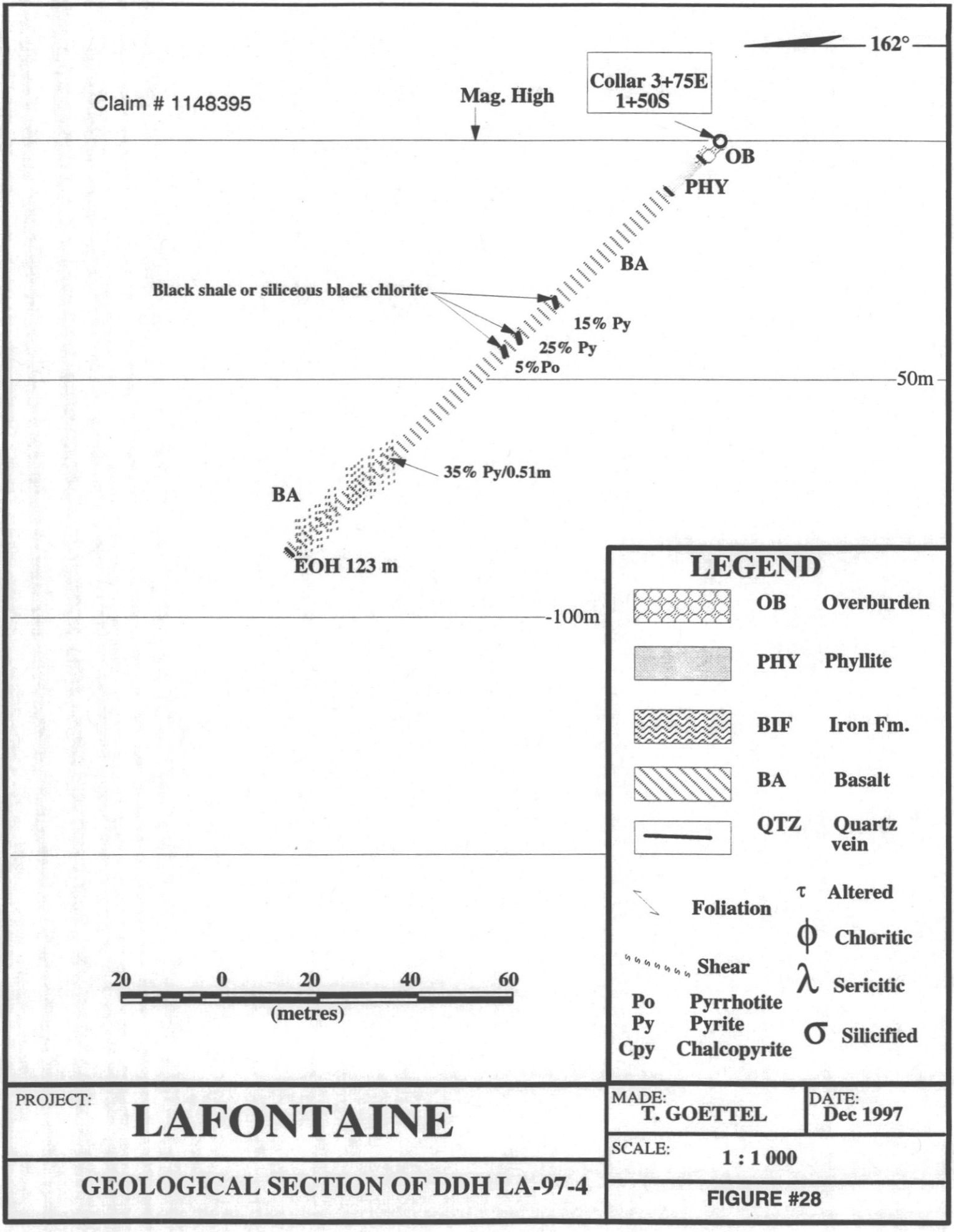
GEOLOGICAL SECTION OF DDH LA-97-3

MADE: T. GOETTEL

DATE: Dec 1997

SCALE: 1 : 1 000

FIGURE # 27



PROJECT:

LAFONTAINE

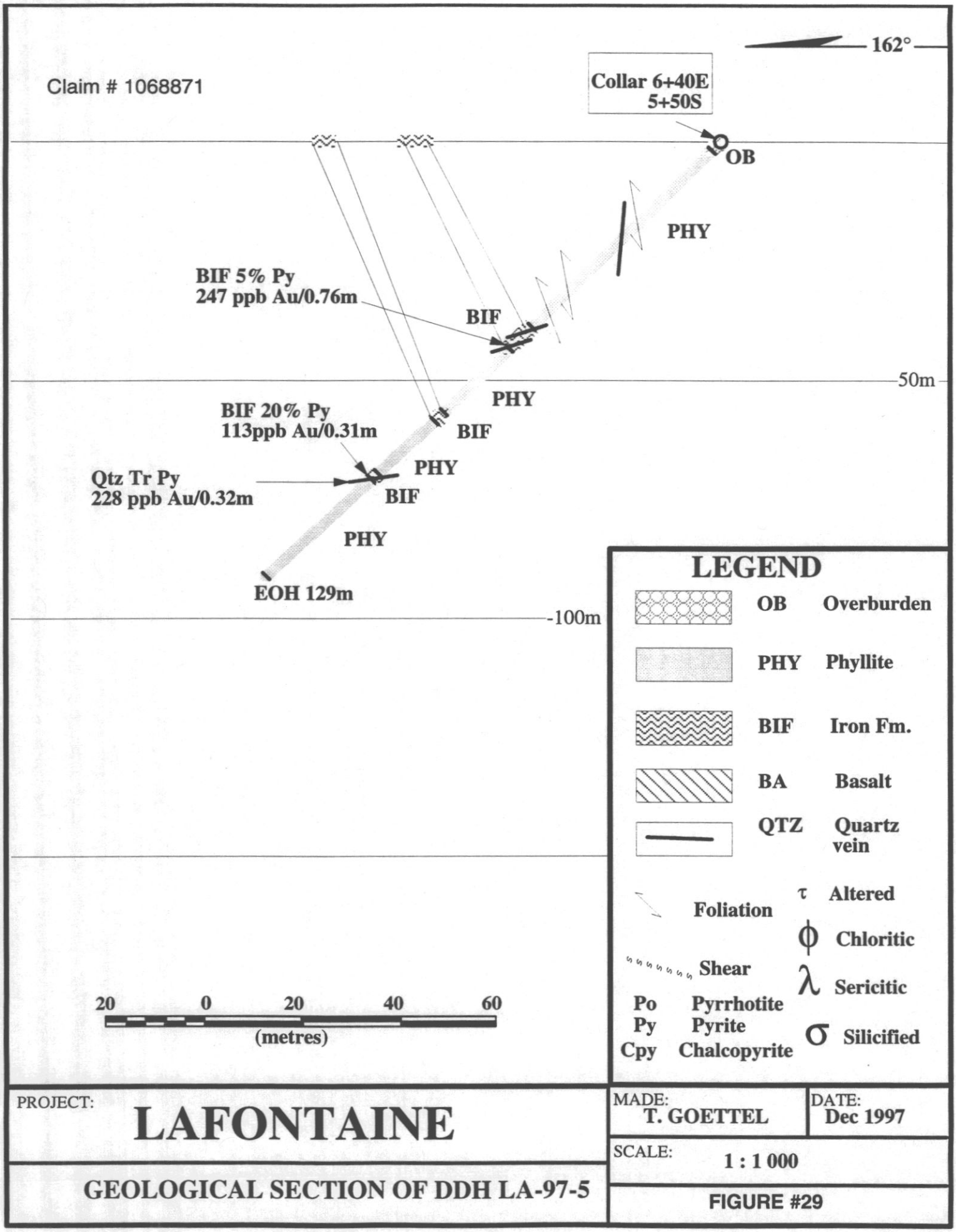
GEOLOGICAL SECTION OF DDH LA-97-4

MADE: T. GOETTEL

DATE: Dec 1997

SCALE: 1 : 1 000

FIGURE #28



PROJECT:

LAFONTAINE

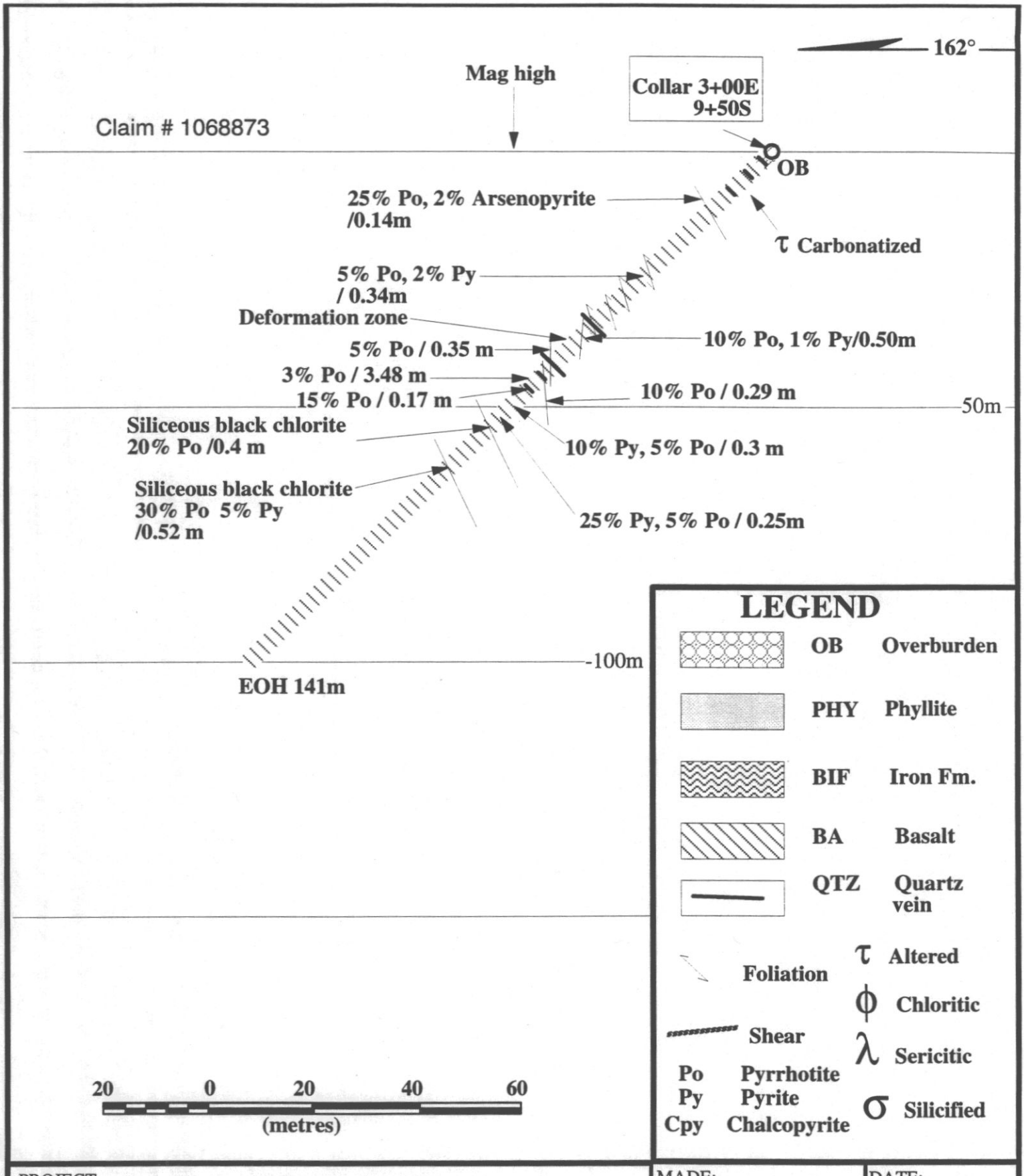
GEOLOGICAL SECTION OF DDH LA-97-5

MADE: T. GOETTEL

DATE: Dec 1997

SCALE: 1 : 1 000

FIGURE #29



PROJECT:

LAFONTAINE

GEOLOGICAL SECTION OF DDH LA-97-6

MADE: T. GOETTEL

DATE: Dec 1997

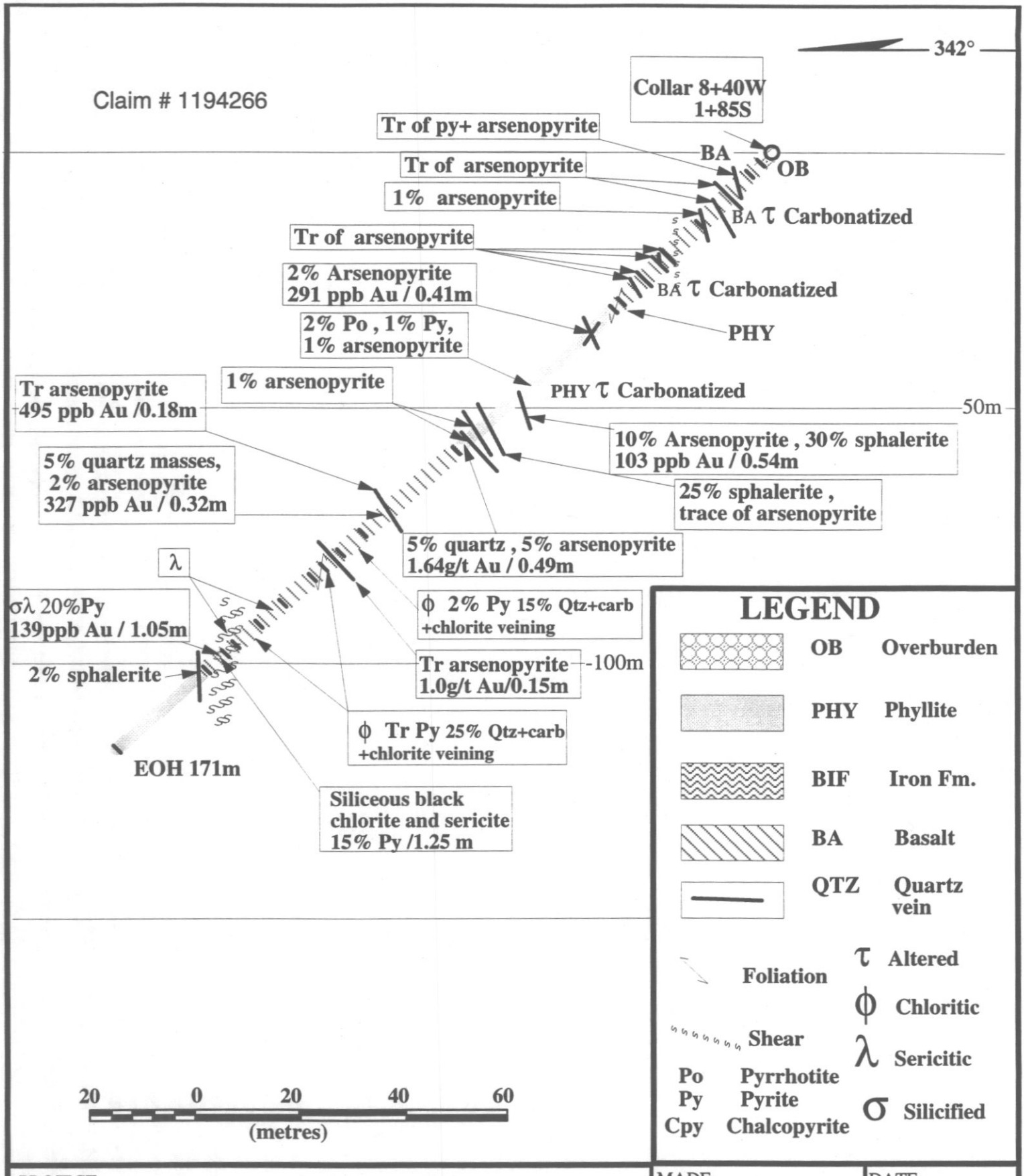
SCALE: 1 : 1 000

FIGURE # 30

7.2 THE 1997 EXPLORATION PROGRAM(cont.)

7.2.2 Phase two(cont)

Hole LA-97-7 collared on L8+40W at 1+85S targeted the altered and arsenopyrite bearing "H" showing. The hole traversed a basalt and phyllite with numerous carbonatized zones. Numerous quartz veins and veinlets hosting arsenopyrite, identical to the "swamp lake" showing at 800 metres to the south west, were traversed. Values of up to **1,64g/t Au over 0,49 metres along with 6 values ranging between 1,0g/t to 103 ppb** were obtained. A four metre wide siliceous shear zone was intersected at 144 metres. This could be the "Arsenopyrite fault". A value of **139 ppb Au over1,05 metres** was obtained from within the shear.(Fig # 31)



PROJECT:

LAFONTAINE

GEOLOGICAL SECTION OF DDH LA-97-7

MADE: T. GOETTEL

DATE: Dec 1997

SCALE: 1 : 1 000

FIGURE # 31

8.0 CONCLUSIONS AND RECOMMENDATIONS

The Lafontaine property of **Explorations Minières Du Nord Ltée/ Pangea Goldfields** has the potential to host an economic gold deposit within iron formations and /or shear zones. Numerous gold bearing showings have been identified to date on the property. Diamond drilling in the past has intersected economic values of gold over minable widths. Airborne geophysical surveys have located numerous anomalies that trend parallel to shear zones existing on the property.

The 1996-97 exploration programs uncovered a large previously unknown BIF on the property. Grab samples obtained indicate the gold bearing nature of the iron formation. Stripping and diamond drilling of the Buffalow Beardmore showing exposed the complexity of the iron formation. Numerous other thin iron formations and numerous shear zones bearing anomalous gold values were located. Following are the conclusions and recommendations by area examined:

1 : The linear magnetic structure verified by hole LA-96-13 is caused by a mineralized shear. No gold values were obtained from within this structure and no further work is recommended on this structure.

2 : The large magnetic high probed by hole LA-96-14 intersected pyrrhotite bearing chloritic phyllite. No gold values were obtained from within this hole and no follow up work is recommended on this zone.

3 : The IP anomaly tested by hole LA-96-15 intersected sulphide bearing horizons with no gold values. No follow up work is recommended along this structure.

4 : The possible strike extension of a quartz-gold bearing shear showing on the neighboring property was tested by hole LA-96-16. A quartz vein bearing sulphides was intersected but no gold values were obtained.
The magnetic axis verified by hole LA-96-17 intersected a strongly magnetic pyroxenite. No values were obtained and no follow up work is recommended in this area.

5 : The numerous shear zones located and sampled in the southern part of the property returned anomalous gold values of up to 345 ppb Au. Diamond drill hole LA-97-5 verified one of these zones and the gold values obtained are very low. Although the zones are relatively thin and are not deemed of economical significance, they do indicate the presence of gold mineralization throughout the property.

7.0 CONCLUSIONS AND RECOMMENDATIONS (cont.)

6 : Hole LA-97-1 tested the interpreted fold nose from magnetic data. The hole did not prove or disprove the presence of a fold, but it did define the causative bodies as magnetite rich quartz veins barren of gold. No follow up work is recommended along this structure.

7 : Holes LA-96-1,2,8,9,10,11 and12 and LA-97-2 and 3 tested the " Main BIF". The holes drilled during the 1996 program define the erratic nature of the gold mineralisation. Hole LA-97- 2 tested the iron formation at a vertical depth of approximately 200 metres. The results were dissapointing, but not conclusive. The hole did define the along dip extent of the formation, but as far as defining the gold potential, due to the flat nature of the quartz veins and the angle that the hole pierced the formation, quartz veins could have been missed. Hole 3 was drilled to the west of the stripped iron formation. The hole defined the continuity of the iron formation to the west, although the grades are not of economic significance.

8 : Hole LA-97-4 tested a magnetic anomaly to the east of the " Main BIF". The magnetic anomaly is caused by thin pyrrhotite bands. No follow up work is recommended along this structure.

9 : Hole LA-97-5 tested the "D" showing. The hole intersected the iron formations at depth, but the gold values obtained are not of economic significance. No follow up work is recommended along this structure.

10 : Hole LA-96-7 tested the area of numerous thin iron formation lenses("F" showing). Grab samples from the surface showings range between > 1 oz./t to 2,55 g/t Au. Although the down dip extension of the high grade iron formation was not intersected by the hole, a gold value of 2,58 g/t over 0,14 m was obtained. Taking into account the proximity of other gold bearing structures and the possibility of a plunge to the iron formations, this area warrants further examination.

11 : The stripping and diamond drilling of three holes(LA-96-4,5 and 6) on the Buffalow Beardmore showing gave mixed results. A surface grab sample grading 36,54 g/t Au was obtained, but the highest diamond drill result obtained is 1,07g/t Au. To obtain a better understanding of the distribution of the gold mineralization, it is recommended to do a detailed channel sampling program over this showing.

12 : "Arsenopyrite Fault" is a structure that runs NE- SW , The structure has a carbonate alteration and arsenopyrite mineralization associated with it. The "Swamp Lake" showing consists of dolomitized basalt with quartz veins and lenses bearing arsenopyrite. The arsenopyrite occurs within the veins and within the wall rocks. Surface sampling done by Golden Dragon and Glen Auden resources obtained values of 10 000 ppb and > 10 000 ppb Au. Diamond drill hole LA-96-3 returned a value of 156 ppb Au over 0,5 metres. Surface sampling of the stripping

7.0 CONCLUSIONS AND RECOMMENDATIONS (cont.)

of the "H" showing gave a value of 150 ppb Au. Diamond drill hole LA-97-7 defined the geology of this area as being identical to that of the swamp lake showing. These findings along with the identification of disseminated arsenopyrite within a trench on L10+50W at 2+50S and the intersection of altered basalt with arsenopyrite mineralization in hole LA-97-2, define a large area of alteration and gold and arsenic mineralization. Upon examination of the magnetic map, there is a magnetic low running from L5W at 0+50S to L10E at 0+50N. A VLF anomaly is present from l1+50W at 0+75S to L4W at 0+25S. Government geological maps indicate the presence of a granodiorite in this area. A brittle rock within a fault zone which has undergone hydrothermal alteration and bears anomalous gold and arsenic values is deemed a priority drill target. One must also bear in mind that the intersection at depth of the "Main BIF" and the "Arsenopyrite Fault" is a prime target for gold mineralization.

Respectfully submitted,

Ted Goettel
Geologist, B. Sc.

March 1998

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10.0 CERTIFICATE OF QUALIFICATION

I, Ted Goettel, of the municipality of Sherbrooke, Province of Québec, do hereby, certify that:

1- I am a senior geologist with a business address at:
1612, Rue O'Reilly, Sherbrooke, Québec, J1J 1C1.

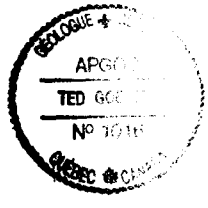
2- I am a Canadian citizen

3- I have graduated and obtained a B.Sc. degree at Concordia University, Montréal,Québec, in 1982.

I have practised my profession since that time and have worked for Echo Bay Mines from 1982 to 1986 and then as a consulting geologist for several junior exploration companies.

4- I am a member of the APGGQ .

Sherbrooke



Dated: March 7, 1998

Ted Goettel

Ted Goettel
Geologist, B.Sc.

ANNEX 1

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-01 LENGTH: 99m
LOCATION : CLAIM No : 1194269
LONGITUDE : L0+80 E LATITUDE: 2+35 S
ELEVATION: AZIMUTH: 134 °
STARTED ON : October 01, 1996
COMPLETED ON: October 02, 1996

DEPTH	DIRECTION	DIP
COLLAR	134°	-45°
99m		-45°

HOLE No : LA-96-01
PAGE No 1 OF 2

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.

LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	2,40	**OVERBURDEN**									
2,40	16,64	**PHYLLITE GRADING TO BASALT** Dark grey mottled white foliated rock grading into a greyish green massive rock. Minor conformable and crosscutting carbonate lamellae and lenses within phyllite. Schistosity @60° to c.a. Trace of pyrite within phyllite and trace of pyrrhotite within basalt.									
16,24	45,60	**CHLORITIC PHYLLITE.** Dark green to greyish green, mottled white by carbonate lamellae and lenses. Well defined schistosity @ 60° to c.a. 16,64 - 16,80 Conformable carbonate rich horizon. Carbonate lamellae make up 40% of the rock. 5% pyrite. 28,00 Minor iron staining within carbonate veinlets. 32,75 - 33,07 Quartz- carbonate vein @ 45° to c.a. Trace of pyrite adjacent to vein.	571701	16,64	16,80	0,16		8			
45,60	54,42	**BANDED IRON FORMATION** Rock is banded light grey to white, black and dark to light green. Banding at all angles to c.a. Minor folding. contact @ 45,60m is irregular,@ 54,42 @ 70° to c.a.									

TED GOETTEL GEOLOGICAL CONSULTANT

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-01

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
		45,60 - 46,03 Siliceous bands make up 50% and mafic bands 50% of the rock. 3% pyrrhotite and 3% pyrite within mafic bands.	571702	45,60	46,03	0,43		60	reassay pulps	reassay rejects	
		46,03 - 46,96 Mafic bands make up 70% and siliceous bands 30% of the rock. Banding @ 65° to c.a. 3% magnetic pyrrhotite within mafic bands.	571703	46,03	46,96	0,93		48			
		46,96 - 48,30 Quartz vein. White to light grey. Massive.	571704	46,96	47,58	0,62		<5			
		47,58 - 48,30 10% pyrite as fracture infill and as masses.	571705	47,58	48,30	0,72		**201**	**370**	**230**	
		48,30 - 48,80 30% siliceous bands, 70% light greenish grunerite(?) rich bands. 2% fine disseminated pyrite.	571706	48,30	48,80	0,50		**1,87g/t**	**2.15g/t**	**2.95g/t**	
		48,80 - 50,47 40% siliceous bands, 20% mafic bands and 40% grunerite rich bands. Trace of magnetite and pyrite.	571707	48,80	50,47	0,67		26			
		50,47 - 52,35 60% mafic bands and 40% siliceous bands. 7% pyrrhotite within mafic bands.	571708 571709	50,47 51,20	51,20 52,35	0,73 1,15		<5 17			
		52,35 - 54,42 60% mafic bands and 30%, grunerite rich bands and 30% arkosic bands.	571710 571711	52,35 53,20	53,20 54,42	0,85 1,22		15 <5			
54,42	**99,00**	**BASALT** Light greyish green mottled white. Soft. Weakly foliated @ 45° to c.a. @ 55m. @ 60° to c.a. @ 95m. Trace of pyrite as fine disseminated grains.									
		56,00 - 56,40 Banded Iron Formation. 75% siliceous bands and 25% magnetic mafic bands. 2% pyrite.	571712	56,00	56,40	0,40		15			
	99,00	**E.O.H.**									

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-02 LENGTH: 99m
LOCATION : CLAIM No :1194270
LONGITUDE : L0+41W LATITUDE: 2+74S
ELEVATION: AZIMUTH: 147°
STARTED ON : October 02, 1996
COMPLETED ON: October 02, 1996

DEPTH	DIRECTION	DIP
COLLAR	147°	-45°
99m		-45°

HOLE No : LA-96-02
PAGE No 1 OF 3

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.

LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	44,30	**CHLORITIC PHYLLITE.** Dark green to greyish green, mottled white by carbonate grains. Well defined schistosity @ 55 to 60° to c.a. Minor thin barren quartz veining from 25 to 43 m. Minor thin pyrite bearing lamellae. 28,80 1 cm. wide carbonate band @ 60° to c.a. 10% pyrite. 38,25 - 38,42 Irregular carbonate mass with 10% fine pyrite. Overall trace of pyrite as wisps conformable to the foliation.									
44,30	44,63	**QUARTZ VEIN** Medium to light grey with light to dark greenish bands. Bands make up 30% of the rock @ 70° to c.a. Contacts @ 70° to c.a. 5% pyrite + pyrrhotite within bands.	571713	44,30	44,63	0,33		6			
44,63	52,50	**BASALT** Medium grey. Massive. Soft. Trace of pyrrhotite as fine disseminated grains.									
52,50	56,60	**BANDED IRON FORMATION** 52,50 - 54,00 Siliceous with minor quartz veining @ 30° to c.a. Chert makes up 20% of the rock.									

TED GOETTEL GEOLOGICAL CONSULTANT

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-02

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
		Banding @ 70° to c.a. @ 52,50m. @ 30° @ 54,0m.							reassay pulps	reassay rejects		
		1 cm wide quartz vein bears 30% pyrrhotite, 3% pyrite and trace of chalcopyrite. 1,5 cm quartz carbonate vein is barren of sulphides. Overall 5% pyrrhotite, 5% pyrite and trace of arsenopyrite and chalcopyrite.	571714	52,50	54,00	1,50		**1,65g/t**	**2.40g/t**	**1.70g/t**		
		54,00 - 55,07 Alternating grunerite (30%), siliceous (40%) and mafic bands (30%). Banding @ 55° to c.a. Mafic bands are pyrrhotite and arsenopyrite bearing. Overall 5% pyrrhotite, 2% arsenopyrite and trace of pyrite as mass adjacent to quartz vein at 54,00m.	571715	54,00	55,07	1,07		**414**	**530**	**410**		
		55,07 - 55,70 Quartz Vein. White. Fragmented in appearance with pyrite in filling the fractures. Contact @ 55,07 m @ 40° to c.a. @ 55,70 m @ 10° Mafic fragments make up 15% of the rock. Overall 10% pyrite, 3% pyrrhotite, 1% arsenopyrite and trace of chalcopyrite.	571716	55,07	55,70	0,63		**433**	**410**	**540**		
		55,70 - 56,60 Siliceous (80%), mafic (20%). Mafic bands are pyrrhotite, arsenopyrite rich. Banding @ 35° to c.a. Overall 15% pyrrhotite, 5% arsenopyrite, trace of chalcopyrite and pyrite.	571717	55,70	56,60	0,90		**301**	**310**	**360**		
56,60	**57,12**	**GREYWACKE** Grey to greenish grey. Well defined foliation @ 60° to c.a. to 56,97m 15 cm. wide siliceous Iron Formation from 56,97 to 57,12m. Trace of pyrrhotite.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-02

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm
59,40	**84,40**	**BASALT** Greenish grey with horizons foliated by feldspar laths. Trace of pyrrhotite as fine disseminated grains. 63,00 Foliated @ 40° to c.a. 71,33 - 84,40 Massive. Trace of pyrrhotite and pyrite.									
84,40	**85,22**	**CHLORITIC PHYLLITE** Dark green with thin white lamellae. 30% white carbonate veinlets @ 60° to c.a.									
85,22	**85,35**	**QUARTZ VEIN** White, massive. Contacts @ 75° to c.a. Trace of magnetite within vein.									
85,35	**85,60**	**BLEACHED ZONE.** Rock is light green in color. Fractured with magnetite fracture in fill.									
85,60	**99,00**	**BASALT** Foliated in certain horizons @ 50° to c.a. Trace of pyrite.									
	99,00	**E.O.H.**									

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-03 **LENGTH:** 150m
LOCATION : **CLAIM No :** 1194270
LONGITUDE : L17+00W **LATITUDE:** 2+50S
ELEVATION: **AZIMUTH:** 342°
STARTED ON : October 03, 1996
COMPLETED ON: October 04, 1996

DEPTH	DIRECTION	DIP
COLLAR	342°	-45°
150m		-45°

HOLE No : LA-96-03
PAGE No 1 **OF** 2

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	3.0	**OVERBURDEN**									
3,0	150,00	**BASALT**									
		An alternating sequence of light greyish green and mottled light green and dark green porphyritic basalt.									
		Minor thin quartz veinlets @ 60° to c.a. between 4 and 7 m.							reassay pulps	reassay rejects	
		32,8 - 33,3 Bleached zone (carbonatised) with 1% fine disseminated arsenopyrite needles.	571718	32,8	33,3	0,5		**156**	**180**	**200**	
		33,3 - 33,44 Quartz-carbonate vein. Contact @ 30: to c.a. 4% arsenopyrite fine to medium grained crystals.	571719	33,3	33,5	0,2		42			
		33,44 - 33,50 Carbonatised with trace of arsenopyrite.									
		37,60 - 38,60 Foliated with quartz-epidote veining and masses. Foliated @ 20° to c.a.									
		38,60 -39 17 Foliated @ 45° to c.a. 5% pyrite as wisps.	571720	38,6	39,17	0,57		7			
		51,74 - 52,72 Minor carbonate veining @ 90° to c.a. Trace of pyrite and pyrrhotite.									
		53,34 - 55,12 Shear zone @ 40° to c.a. 10% white quartz as discontinuous lenses. Trace of pyrite and pyrrhotite.									
		63,30 - 65,50 Carbonatised zone. 1% quartz-carbonate veining @ 60° to c.a. Trace of siderite and pyrite.									

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-03

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
		65,50 - 67,50 Foliated @ 60° to c.a. Unit has dark grey to black mudstone bands.									
		67,50 - 70,20 Black mudstone.									
		70,20 - 76,60 Porphyritic basalt.									
		83,15 - 84,00 Shear zone. Rock is foliated @ 60° to c.a.									
		84,80 - 84,90 Carbonate and pyrrhotite laminated band @ 70° to c.a. 35% very fine pyrrhotite.	571721	84,8	84,9	0,1		33			
		84,90 - 114,00 Basalt with minor porphyritic horizons, and thin quartz-carbonate veinlets. Chlorite content varies giving certain horizons a dark green color.									
		114,00 - 146,00 Basalt. Medium grey in color. Trace of pyrite. 138,9 - 142.5 Rock gradually exhibits a well developed schistosity @ 45° to c.a.									
		146,0 - 150,0 Minor thin quartz-carbonate veining @ 40° to c.a.									
	150,00	**E.O.H.**									

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-04 LENGTH: 102m
LOCATION : CLAIM No : 1194267
LONGITUDE : L6+17W LATITUDE: 3+76S
ELEVATION: AZIMUTH: 148°
STARTED ON : October 04, 1996
COMPLETED ON: October 05, 1996

DEPTH	DIRECTION	DIP
COLLAR	148°	-45°
102m		-45°

HOLE No : LA-96-04
PAGE No 1 OF 2

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.

LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	2,40	**OVERBURDEN.**									
2.40	24.80	**CHLORITIC PHYLLITE.** Dark green with numerous carbonate veins and masses. Some veins exhibit drag folding. Overall veins make up 10% of the rock. Foliated @ 60° to c.a.									
24,80	27,63	**B.I.F.** Unit is highly siliceous and grunerite(?) rich. Siliceous bands make up 50% of the rock. Grunerite rich bands make up 30% of the rock. Mafic bands make up 20% of the rock.									
		24,80 - 25,13 Minor grunerite Banded @ 60° to c.a. 3% pyrrhotite, trace of pyrite.	571722	24,8	25,13	0,33		13			
		25,13 - 25,58 Siliceous and grunerite rich. Trace of pyrite.	571723	25,13	25,28	0,15		9			
		25,58 - 26,94 Siliceous with grunerite. Banding exhibits drag folding. 3% pyrrhotite, trace of pyrite and chalcopyrite.	571724	25,28	26,49	1,21		10			
		26,94 - 26,75 Phyllite. Medium to light grey. Foliated @ 70° to c.a.									
		26,75 - 27,63 Siliceous, minor phyllite from 27 to 27,09m. Banded @ 70° to c.a. 3% pyrrhotite, trace of pyrite and chalcopyrite.	571725	26,75	27,63	0,88		< 5			

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-04

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
27,63	**44,96**	**CHLORITIC PHYLLITE** Greyish green. Rock is less chloritic than 2,4 to 24,8 m. From 27.63 , rock gradually changes from medium green to a medium grey green. Minor carbonate veining. Foliated @ 70° to c.a.									
44,96	**53,96**	**B.I.F.** Unit consists of a siliceous and grunerite rich magnetite bearing iron formation. Rock exhibits millimetric and larger scale drag folding. Contact @ 44,96 m. @ 70° to c.a. @ 53,96 m. @ 50° to c.a. Magnetite bands range from millimetric to 0,5 cm in width. Pyrrhotite occurs as incomplete replacement of magnetite bands and as crosscutting veinlets and as disseminated grains within mafic bands. Pyrrhotite veinlets occur @ 50° to c.a. Overall 1% pyrrhotite, trace of pyrite and chalcopyrite.	571726	44,96	46,37	1,41		< 5			
			571727	46,37	47,82	1,45		< 5			
			571728	47,82	49,15	1,33		81			
			571729	49,15	50,59	1,44		< 5			
			571730	50,59	51,95	1,36		< 5			
			571731	51,95	53,07	1,12		45			
			571732	53,07	53,96	0,89		7			
53,69	**102,0**	**GREYWACKE.** Medium grey, massive. Minor weakly foliated horizons. Carbonate veining (<2%) throughout @ all angles to c.a. Trace of pyrite.									
	102,0	**E.O.H.**									

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-05 **LENGTH:** 102m
LOCATION : **CLAIM No :**1194267
LONGITUDE : L6+88W **LATITUDE:** 4+53S
ELEVATION: **AZIMUTH:** 153°
STARTED ON : October 05, 1996
COMPLETED ON: October 05, 1996

DEPTH	DIRECTION	DIP
COLLAR	153°	-45°
102m		-45°

HOLE No : LA-96-05
PAGE No 1 OF 5

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	2,7	**OVERBURDEN**									
2.70	12.10	**CHLORITIC PHYLLITE.**									
		Dark green to greyish green, mottled white by carbonate grains.									
		Well defined schistosity @ 60° to c.a.									
		Minor thin barren quartz veining @ 70° to c.a.									
		Numerous carbonate lamellae and lenses.									
12,10	35,48	**B. I. F.**									
		Unit consists of a folded sequence of highly siliceous bands with grunerite rich bands and mafic bands.									
		Contact @ 12,10 m @ 75° to c.a.									
		@ 35,48 m occurs within ground core.									
		12,10 - 15,72 Highly siliceous with mafic bands.	571733	12,10	13,10	1,00		< 5			
		Chert makes up 60% of the rock.	571734	13,10	14,66	1,56		< 5			
		Mafic bands make up 40% of the rock.	571735	14,66	15,72	1,06		< 5			
		Minor grunerite bands.									
		Drag folded from 12,10 to 13,70 m.									
		2% pyrrhotite within mafic bands.									
		Trace of pyrite.									
		15,72 - 21,62 Grunerite rich horizon.	571736	15,72	17,00	1,28		< 5			
		Banding in general @ 60° to c.a.	571737	17,00	18,50	1,50		< 5			
		Much drag folding.	571738	18,50	20,00	1,50		< 5			
		Trace of very fine pyrrhotite and pyrite.	571739	20,00	21,62	1,62		< 5			

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-05

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
		21,62 - 30,14 Banded chert and mafic bands.	571740	21,62	23,00	1,38		6	reassay	reassay		
		Mafic bands make up 55% of the rock.	571741	23,00	24,50	1,50		8	pulp	reject		
		Chert bands make up 45% of the rock.	571742	24,50	26,00	1,50		8				
		Banding in general @ 50° to c.a.	571743	26,00	27,50	1,50		7				
		Numerous drag folds.	571744	27,50	29,00	1,50		9				
		3% pyrrhotite, 2% pyrite within mafic bands.	571745	29,00	30,14	1,14		10				
		30,14 - 30,57 **Strongly mineralized horizon.**	571746	30,14	30,57	0,43		19	**150**	**110**		
		Unit consists of a grunerite rich rock with quartz stringers and masses.										
		20% of the rock is made up of 2 bands of massive pyrrhotite, pyrite and arsenopyrite.										
		A 5 cm wide band @ 30° and another 2 cm wide @ - 40° to c.a. cross - cut the banding.										
		Quartz makes up 20% of the rock.										
		Overall 10% pyrrhotite as masses, 3% pyrite as masses within the pyrrhotite and 2% arsenopyrite as fine to medium grains adjacent to the pyrrhotite and as isolated grains.										
		30,57 - 31,73 Grunerite rich horizon.	571747	30,57	31,73	1,16		10				
		Banded @ 75° to c.a.										
		Trace of pyrrhotite and arsenopyrite.										
		30,87 - 30,95 Arsenopyrite rich band parallel to c.a.										
		Width unknown as band was just skimmed by core.										
		31,73 - 32,13 **Strongly mineralized horizon.**	571748	31,73	32,13	0,40		**345**	**500**	**310**		
		Horizon is made up of a highly siliceous iron formation with 15% quartz veins.										
		Veins @ 50° to c.a.										
		8% pyrrhotite, 3% pyrite and 5% arsenopyrite.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-05

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	
		32,13 - 35,48 Alternating siliceous and grunerite rich I.F. Siliceous bands make up 50% of the rock. Grunerite bands make up 50% of the rock. Banding @ 50° to c.a. Trace of pyrrhotite and pyrite along thin cross fractures infilled with quartz @ 30° to c.a.	571749 571750 571751	32,13 33,50 34,54	33,50 34,54 35,48	1,37 1,04 0,94		9 7 < 5				
35,48	37,46	**BASALT** Medium grey. Massive. Barren.										
37,46	38,40	**B.I.F.** Grunerite rich with quartz mass. Banding varies from parallel to 65° to c.a. Contact @ 37,46 m @ 65° to c.a. @ 38,40 m @ 60° to c.a. Minor pyrrhotite masses adjacent to quartz mass. Overall 1% pyrrhotite.	571752	37,46	38,40	0,94		6				
38,40	49,92	**BASALT** Medium grey, massive. Minor carbonate veinlets and masses. Trace of pyrite. 38,40 -38,80 Chloritic phyllite. 48,05 - 48,23 Iron formation. Siliceous with mafic bands @ 70° to c.a. Contacts @ 70° to c.a. Trace of pyrrhotite.										
49,92	53,63	**B.I.F.** Siliceous with grunerite rich horizons and lenses of chloritic phyllite. 49,92 - 51,75 Banded siliceous, grunerite and mafic bands. Banding @ 75° to 80° to c.a.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-05

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
		Quartz veins @									
		50,08 2 cm wide mass which does not cut across the entire width of the core. Pyrrhotite and pyrite masses adjacent to quartz mass. Trace of arsenopyrite as fine needles.									
		50,75 1 cm wide @ 50° to c.a. Trace of pyrrhotite and arsenopyrite adjacent to vein.									
		51,30 5 cm wide @ 80° to c.a. Trace of pyrrhotite, pyrite and arsenopyrite.									
		49,92 - 50,75 1% pyrrhotite and trace of arsenopyrite.	571753	49,92	50,75	0,83		< 5			
		51,57 - 52,27 Chloritic phyllite.	571754	50,75	51,75	1,00		< 5			
		Contact @ 51,75 m @ 60° to c.a.	571755	51,75	52,70	0,95		< 5			
		52,27 - 52,70 Siliceous drag folded iron formation. Contacts @ 65° to c.a. 3% magnetite, 3% pyrrhotite and trace of pyrite.									
		52,70 - 52,87 Chloritic phyllite.	571756	52,87	53,25	0,38		9			
		52,87 - 53,63 Siliceous iron formation.									
		52,87 - 53,25 80% chert, 10% pyrrhotite. 53,25 - 53,63 Bleached in appearance. Trace of pyrrhotite.	571757	53,25	53,63	0,38		< 5			
53,63	**54,09**	**CHLORITIC PHYLLITE with lenses of I. F.** Unit resembles what is seen on surface where the iron formation terminates , shearing with iron formation lenses.									
		53,24 - 53,34 Siliceous with stretched out mafic bands. Trace of pyrrhotite.									
		53,80 - 54,09 Banding @ 65° to c.a.									
54,09	**62,95**	**BASALT** Medium grey. Massive.									

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-05

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
62,95	**83,50**	**BASALT .** Medium greyish green. Massive. Trace of pyrite. Sharp contact @ 62,95 m @ 50° to c.a. 69,50 Carbonate infilled shear @ 25° to c.a. 72,50 Quartz-carbonate veinlet @ 30° to c.a. 78,80 - 79,00 Barren white quartz vein. Contacts @ 75° to c.a.									
83,50	**84,23**	**MAGNETITE RICH B.I.F.** 60% siliceous bands, 40% chloritic bands. Banding @ 50° to c.a. Contact @ 60° to c.a. 10% magnetite, 5% pyrrhotite and trace of pyrite.	571758	83,50	84,23	0,73		10			
84.23	**102.00**	**ALTERNATING CHLORITIC PHYLLITE AND BASALT.** Barren white quartz veins @: 88,55 - 89,18 Sharp contacts @ 88,55 @ 70° to c.a. 90,43 - 91,15 Sharp contacts @ 90° to c.a.									
	102,00	**E.O.H.**									

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-06 **LENGTH:** 102m
LOCATION : **CLAIM No :** 1194267
LONGITUDE : L6+70W **LATITUDE:** 4+68S
ELEVATION: **AZIMUTH:** 340°
STARTED ON : October 06, 1996
COMPLETED ON: October 07, 1996

DEPTH	DIRECTION	DIP
COLLAR	340°	-74°
102 m		-74°

HOLE No : LA-96-06
PAGE No 1 **OF** 9

CORE STORED AT : Beardmore
CORE DIAMETRE: B Q
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	1,10	**CASING**									
1.10	23.62	**B. I. F.** Unit consists of strongly mineralized horizons with poorly mineralized grunerite rich horizons. Mineralization occurs as conformable millimetric bands rich in pyrrhotite and pyrite and as crosscutting massive pyrrhotite, pyrite and arsenopyrite bands adjacent to quartz veins.									
		1,10 - 1,85 Siliceous band with millimetric mafic bands. Banding @ 10° to c.a. 3 cm wide quartz vein @ 1,68 m @ 50° to c.a.	571759	1,10	1,85	0,75		< 5			
		1,85 - 2,12 Arsenopyrite rich horizon. Quartz veinlets @ all angles to c.a. Massive arsenopyrite, pyrite and chalcopyrite bands @ 45° and 70° to c.a. Overall 20% arsenopyrite, 5% pyrite and 1% chalcopyrite.	571760	1,85	2,12	0,27		**1,07g/t**			
		2,12 - 8,47 Siliceous and grunerite bands parallel to c.a. Bands are 1 cm wide. Minor thin quartz veins @ all angles to c.a. Minor millimetric pyrrhotite and pyrite bearing veinlets @ all angles to c.a. Overall trace of sulphides.	571761	2,12	3,60	1,48		< 5			

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-06

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm
		3,00 - 3,20 Quartz vein. 10% pyrrhotite+ pyrite. Core badly broken up.									
		3,20 - 3,40 Q.v. @ 20° to c.a., barren.									
		3,60 Q.v. @ 20° to c.a., barren.									
		3,90 - 5,25 core @ contact of quartz vein .									
		4,15 3 mm wide q.v. @ 70° to c.a. Pyrrhotite bearing at boundaries.	571762	3,60	5,25	1,65		< 5			
		4,40 1 cm wide massive pyrrhotite, pyrite and arsenopyrite band @ 40° to c.a.									
		4,66 5 mm wide quartz veinlet @ 80° to c.a. Trace of pyrrhotite and pyrite within wall rock.									
		4,70 5 mm wide quartz veinlet @ 65° to c.a. Trace of pyrite within veinlet.									
		5,25 8 mm wide band bearing pyrrhotite, pyrite and arsenopyrite @ 55° to c.a.	571763	5,25	5,57	0,32		32			
		5,36 2 mm wide quartz veinlet @ 60° to c.a. 50% pyrrhotite within veinlet.									
		5,50 2 cm wide with 30% pyrrhotite and 25% arsenopyrite @ 60° to c.a.									
		6,62 5 mm wide quartz veinlet @ 85° to c.a. Pyrrhotite occurs where vein cuts across a mafic band within the wall rock.	571764	5,57	7,00	1,43		5			
		7,50 Quartz lens with pyrrhotite as fracture infill.	571765	7,00	7,70	0,70		< 5			
		7,74 - 7,79 3 mm quartz veinlets @ 70° to c.a. 15% pyrrhotite within veinlet.	571766	7,70	8,56	0,86		< 5			
		8,06 - 8,16 4 cm wide quartz vein @ 60° to c.a. 20% arsenopyrite as medium to fine needles within vein.									
		8,47 - 8,56 Quartz vein @ 65° to c.a. 25% pyrrhotite, 2% arsenopyrite.									
		8,56 - 9,42 Highly siliceous. Trace of pyrrhotite as cross cutting bands.	571767	8,56	9,42	0,86		< 5			

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-06

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	
		9,42 - 10,80 Banded with siliceous and mafic bands. Banding sub parallel to 30° to c.a. 3% pyrrhotite and 1% pyrite as conformable veinlets.	571768	9,42	10,80	1,38		< 5				
		10,80 - 10,96 Quartz-carbonate vein @ 70° to c.a. Pyrrhotite masses at contacts of vein.	571769	10,80	12,00	1,20		< 5				
		11.10 - 11,45 Quartz vein sub-parallel to c.a. Trace of pyrrhotite.										
		11,53 - 11,80 Quartz vein sub-parallel to c.a. 20% chloritic inclusions. 1 % pyrrhotite, trace of arsenopyrite.										
		12,00 1 cm. wide massive pyrrhotite band @ 45° to c.a.										
		12,00 - 13,00 Numerous quartz masses. arsenopyrite occurs within quartz mass @ 13,00m. 5% pyrrhotite, trace of chalcopyrite and arsenopyrite.	571770	12,00	13,00	1,00		< 5				
		13,00 - 13,29 B.I.F. Mostly mafic. Banding @ low angle to c.a. 10% pyrrhotite.	571771	13,00	14,30	1,3		< 5				
		13,29 - 13,55 Quartz carbonate vein. Contact @ 40° to c.a. No sulphides noted.										
		13,55 - 14,08 Highly siliceous zone with pyrrhotite and pyrite as fracture in fill. 5% pyrrhotite, 1% pyrite and trace of chalcopyrite.										
		14,08 - 14,16 Quartz vein @ 60° to c.a. No sulphides noted.										
		14,16 - 14,30 Siliceous with 5% pyrrhotite and trace of chalcopyrite.										
		14,30 - 15,58 Quartz lenses and veining @ 90° to c.a. 5% pyrrhotite, 1% arsenopyrite, Tr. cpy.	571772	14,30	15,58	1,28		< 5				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-06

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
		15,58 - 16,10 B.I.F. 7% pyrrhotite, 1% pyrite, trace of chalcopyrite.	571773	15,58	16,10	0,52		9				
		16,10 - 17,03 Siliceous zone with quartz lenses. 8% pyrrhotite, 3% arsenopyrite, trace of pyrite and chalcopyrite. 16,71-16,80 White quartz vein @ 60° to c.a.	571774	16,10	17,03	0,93		**184**				
		17,03 - 17,37 White quartz vein @ 70° to c.a. No sulphides noted.	571775	17,03	18,52	1,49		17				
		17,37 - 18,52 Mafic I.F. 15% pyrrhotite, 3% pyrite, trace of arsenopyrite and chalcopyrite.										
		18,52 - 18,66 White quartz vein @ 30° to c.a. No sulphides noted.	571776	18,52	18,83	0,31		< 5				
		18,66 - 18,83 Mafic I.F. Banding @ 40° to c.a. 5% pyrrhotite, trace of pyrite and arsenopyrite.										
		18,83 - 19,50 Quartz vein @ low angle to c.a. 1% pyrrhotite within vein and wall rock. Trace of pyrite.	571777	18,83	19,69	1,13		< 5				
		19,50 - 19,69 Grunerite rich I.F. Banded @ 30° to c.a.	571778	19,69	21,33	1,64		< 5				
		19,69 - 19,76 Quartz vein @ 50° to c.a. 5% pyrrhotite, 2% arsenopyrite adjacent to vein.										
		19,76 - 20,14 Mafic and grunerite B.I.F. Banding @ 15° to c.a. 5% pyrrhotite, trace of chalcopyrite.										
		20,14 - 20,26 White quartz vein @ 50° to c.a. Trace of pyrrhotite adjacent to vein.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-06

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
		20,26 - 21,33 Grunerite I.F. Banding @ low angle to c.a.@ 20,50m. @ 30° to c.a. @ 21,20 m. 1% pyrrhotite.										
		21,33 - 21,42 Massive sulphide band. Irregular contacts. 90% pyrrhotite, 7% pyrite, 2% arsenopyrite, trace of chalcopyrite.	571779	21,33	22,17	0,84		**103**				
		21,42 - 22,17 Stretched I.F. Discontinuous lenses of siliceous, mafic and grunerite. 1% pyrrhotite as conformable masses and as cross cutting veinlets. Trace of arsenopyrite and chalcopyrite.										
		22,17 - 22,82 Siliceous zone with 2 quartz veins @ 40° to c.a. Trace of pyrrhotite.	571780	22,17	22,82	0,65		< 5				
		22,82 - 23,62 I.F. with 2 quartz veins @ 80° to c.a. 3% pyrrhotite within I.F. Trace of arsenopyrite.	571781	22,82	23,62	0,80		< 5				
23,62	**23,98**	**CHLORITIC PHYLLITE.** Contact @ 23,62 @ 30° to c.a. @ 23,98 along contact of quartz vein.	571782	23,62	25,17	1,55		< 5				
23,98	**40,40**	**AT CONTACT BETWEEN B.I.F. AND CHLORITIC PHYLLITE.** 23,98 - 26,07 Weakly mineralized I.F. Banding @ 15° to c.a. 24,69-24,90 Quartz vein @ 80° to c.a. Trace of pyrrhotite. 25,07-25,17 Quartz vein @ 30° to c.a. 5% pyrrhotite, 2% arsenopyrite.	571783	25,17	26,07	0,90		< 5				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-06

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
		26,07 - 27,53 Chloritic phyllite.									
		Contacts @ 15° to c.a									
		26,61-26,76 Quartz vein.									
		Irregular contacts.									
		Trace of pyrrhotite and arsenopyrite.									
		27,53 - 33,47 Siliceous I.F.									
		Banding @ low angle to c.a.	571784	27,53	29,15	1,62		< 5			
		27,92 1 cm wide massive pyrrhotite band @ 50° to c.a.									
		Trace of arsenopyrite.									
		28,31 Mass of pyrrhotite, trace of arsenopyrite.									
		28,70-28,75 Irregular mass of pyrrhotite.									
		35% pyrrhotite, trace of chalcopyrite.									
		29,15-29,34 35% pyrrhotite, 3%	571785	29,15	29,87	0,72		11			
		arsenopyrite and 3% pyrite as	571786	29,87	31,44	1,57		< 5			
		a mass and band @ 20° to c.a.	571787	31,44	32,88	1,44		5			
		adjacent to quartz vein.	571788	32,88	33,47	0,59		< 5			
		29,34-29,74 White barren quartz vein @ 90° to c.a.									
		29,74-29,87 3% pyrrhotite, 1% chalcopyrite adjacent to quartz vein.									
		33,47 - 34,29 Chloritic phyllite.									
		Contacts @ 15° to c.a.									
		34,29 - 34,60 B.I.F. and Phyllite.									
		Contact zone.									
		Core is mostly phyllite.									
		34,60 - 38,40 B.I.F.									
		Trace to 1% pyrrhotite as conformable bands.	571789	34,60	36,63	2,03		14			
		35,23-35,34 Quartz vein @ 90° to c.a.									

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-06

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
		35,63-36,00 Quartz vein @ 90° to c.a.									
		36,63 1 cm wide quartz vein @ 55° to c.a.									
		30% pyrrhotite, 15% arsenopyrite within vein.	571790	36,63	38,40	1,77		9			
		36,63-38,40 25% mafic bands, 75% siliceous bands. Trace of pyrrhotite.									
		38,40 - 39,80 Chloritic phyllite. Contact @ 20° to c.a.	571791	38,40	40,40	2,00		< 5			
		39,90 - 40,40 Siliceous I.F. Contact @ 39,80 @ 50° to c.a. Contact @ 40,40 @ 10° to c.a. Trace of pyrrhotite.									
40,40	**59,90**	**PHYLLITE grading into a BASALT.** Dark grey to black. Massive. Weakly foliated @ 35° to c.a.									
59,90	**69,60**	**B.I.F.** Contact @ 15° to c.a.	571792	59,90	60,08	0,18		< 5			
			571793	60,08	61,24	1,16		< 5			
		59,90 - 62,77 Unit is highly siliceous. Banding @ low angle to c.a. Unit exhibits drag folding. Minor thin quartz veins @ high and low angles to c.a. Trace of pyrrhotite.	571794	61,24	62,77	1,53		< 5			
		60,80-60,83 Quartz vein @ 80° to c.a. 15% pyrrhotite, 5% arsenopyrite.									
		62,77 1 cm wide quartz vein @ 85° to c.a. 10% arsenopyrite within vein. Trace of arsenopyrite within wall rock.	571795	62,77	64,09	1,32		15			

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-06

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
		63,10 - 63,20 Quartz-carbonate mass. 10% pyrrhotite, 5% pyrite and 3% arsenopyrite.									
		63,46 - 63,71 Quartz-carbonate vein @ 75° to c.a. No sulphides noted.									
		63,71 - 64,09 Banded siliceous and mafic I.F. Banding @ low angle to c.a. 2% pyrrhotite and trace of pyrite.									
		64,09 - 64,65 Highly siliceous zone. Banding @ 10° to c.a. 5% pyrrhotite, 3% arsenopyrite and 1% pyrite within mafic bands and as veins @ 70° to c.a.	571796	64,09	64,65	0,56		**210**			
		64,65 - 66,04 Banded siliceous and mafic I.F. Banding @ low angle to c.a. Unit exhibits drag folding. Trace of pyrrhotite.	571797	64,65	66,44	1,79		< 5			
		66,04 - 66,44 White quartz vein @ 75° to c.a. Trace of very fine pyrite within vein.									
		66,44 - 67,00 Mafic I.F. Banded @ 10° to c.a. 4 cm wide semi massive pyrrhotite +pyrite band @ 40° to c.a. Overall 5% pyrrhotite, 2% pyrite and trace of arsenopyrite.	571798	66,44	67,20	0,76		**185**			
		67,00 - 67,86 Sericitic(?) siliceous horizon. Pale green in color. Very fine grained to aphanitic.	571799	67,20	67,86	0,66		**< 5**			
		67,86 - 68,42 Banded siliceous and mafic I.F. Banding @ low angles to c.a. 6% pyrrhotite and trace of chalcopyrite as masses and as conformable disseminations.	571800	67,86	68,40	0,54		**< 5**			

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-06

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	
		68,42 - 68,85 Pyrrhotite and arsenopyrite rich horizon. White quartz mass makes up < 1% of the rock. 10% pyrrhotite, 5% arsenopyrite and 3% pyrite.	571801	68,40	68,85	0,45		**600**				
		68,85 - 69,60 Siliceous I.F. Trace of pyrrhotite.	571802	68,85	69,60	0,75		6				
69,60	**82,00**	**CHLORITIC PHYLLITE.** Contact @ 20° to c.a. Contact with unit below is gradational.										
82,00	**102,00**	**BASALT** Dark green to black. Massive. Occasional carbonate vein @ 15° to c.a.										
	102,00	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-07 LENGTH: ~~192m~~ 194
LOCATION : CLAIM No : 1068871
LONGITUDE : L3+45E LATITUDE: 3+95S
ELEVATION: AZIMUTH: 150°
STARTED ON : October 07, 1996
COMPLETED ON: October 07, 1996

DEPTH	DIRECTION	DIP
COLLAR	150°	-45°
94m		-47°

HOLE No : LA-96-07
PAGE No 1 OF 4

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.

LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
0,00	3,07	**CASING**										
3.07	20,92	**ALTERNATING CHLORITIC PHYLLITE AND BASALT.** Rock is medium grey to dark green. Numerous conformable quartz carbonate lenses with trace of chalcopyrite. 8,40 - 9,21 Quartz vein @ 20° to c.a. White with 10% dark inclusions. Trace of pyrite. 9,83 - 9,98 2 cm wide quartz vein @ 30° to c.a. Trace of pyrite.	571803	8,40	9,21	0,81		20				
20,92	21,40	**B.I.F.** Banded magnetite rich and grunerite rich. Unit exhibits folding. Contact @ 20,92 @ 75° to c.a. Contact @ 21,40 @ 60° to c.a. 5% pyrrhotite, 3% magnetite and trace of chalcopyrite.	571804	20,92	21,47	0,55		< 5				
21,40	22,57	**CHLORITIC PHYLLITE.** 21,47 - 21,75 Iron formation jogs in and out of core. 21,75 - 22,57 10% quartz+carbonate veinlets @ 75° to c.a. No sulphides noted.										
22,57	23,20	**B.I.F.** Grunerite and magnetite bearing with siliceous bands. contact @ 22,57 @ 30° to c.a. Unit exhibits folding, trace of pyrrhotite.	571805	22,57	23,20	0,63		< 5				

TED GOETTEL GEOLOGICAL CONSULTANT

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-07

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
23,20	**23,44**	**CHLORITIC PHYLLITE**									
23.44	**24.27**	**SILICEOUS I.F.**									
		Chert makes up 90% of the rock.	571806	23,44	24,27	0,83		27			
		Mafic bands make up 10% of the rock.									
		Contact @ 23,44 @ 20° to c.a.									
		Contact @ 24,27 @ 50° to c.a.									
		2% pyrrhotite as conformable lenses.									
		Trace of magnetite and pyrite.									
24,27	**31,03**	**BASALT.**									
		Light to medium grey spotted white.									
		Weakly foliated @ 70° to c.a.									
		Trace of pyrite as occasional medium grained cube.									
31,03	**36,86**	**CHLORITIC PHYLLITE.**									
		Medium green.									
		Minor quartz+carbonate lenses.									
		10% carbonate lenses and masses with trace of pyrrhotite.									
		Lenses @ 75° to c.a.									
		35,80 - 35,97 White quartz vein @ 90° to c.a.									
		No sulphides noted.									
36,86	**37,00**	**MINERALIZED BAND.**	571807	36,80	37,00	0,20		**2,58g/t**			
		Massive arsenopyrite band @ 40° to c.a.									
		Central part of band consists of an aphanitic dark chert(?).									
		Overall 50% arsenopyrite, 5% pyrrhotite and 3% pyrite.									
37,00	**37,89**	**CHLORITIC PHYLLITE.**									
		Minor carbonate lenses.									
		Trace of arsenopyrite from 37,84 to 37,89 m.									
37,89	**37,96**	**MINERALIZED BAND.**	571808	37,84	37,96	0,12		207			
		Band @ 70° to c.a.									
		20% pyrrhotite and 10% arsenopyrite.									

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-07

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm
37,96	**53,00**	**CHLORITIC PHYLLITE.**									
		37,96 - 38,78 10% pyrite bearing carbonate lenses. Overall 2% pyrite and trace of pyrrhotite and arsenopyrite.	571809	37,96	38,78	0,82		< 5			
		38,78 - 39,14 Quartz+carbonate rich horizon. 70% quartz+carbonate lenses. 3% pyrite and 2% arsenopyrite.									
		39,14 - 40,17 Minor carbonate lenses.									
		40,17 - 41,28 Boudinaged quartz @ low angle to c.a. 3% fine disseminated pyrite within quartz and wall rock.	571810	40,17	41,28	1,11		7			
		41,28 - 42,22 Minor carbonate lenses. Trace of pyrrhotite.	571811	41,28	42,22	0,94		< 5			
		42,22 - 43,06 10% quartz+carbonate lenses. 1% pyrite.	571812	42,22	43,28	1,06		< 5			
		43,06 - 43,28 Quartz vein @ 35° to c.a. 15% included wall rock. No sulphides noted.									
		43,28 - 44,80 40% weakly magnetic pyrrhotite disseminated within chloritic phyllite.	571813	43,28	44,80	1,52		11			
		44,80 - 44,88 Quartz vein @ 30° to c.a. 1% pyrite as fracture in fill.	571814	44,80	45,77	0,97		32			
		44,88 - 45,77 Siliceous horizon with boudinaged quartz+carbonate veining @ low angle to c.a. Rock exhibits folding. 10% pyrrhotite, 1% pyrite and trace of arsenopyrite throughout.									
		45,77 - 53,00 Alternating phyllite and basalt. 47,38-47,50 Quartz+carbonate vein @ 60° to c.a. 10% pyrrhotite. 48,26-48,35 Quartz+carbonate vein @ 65° to c.a. 5% pyrite and 3% pyrrhotite.									

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-07

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
		50,80 - 51,00 Carbonate in filled fracture zone (brittle deformation).									
		51,34 - 51,50 Same as 50,80 m.									
53,00	**61,00**	**BASALT.**									
		Carbonate rich.									
		57,18 - 57,26 Carbonate vein @ 65° to c.a.									
		57,50 - 61,00 Rock gradually starts to exhibit carbonate lamellae cross cutting the schistosity.									
		Schistosity @ 65° to c.a.									
		Carbonate lamellae @ -50° to c.a.									
		Intensity of carbonate lamellae increases until the rock exhibits a cross hatched appearance.									
61,00	**94,00**	**CHLORITIC PHYLLITE.**	571815	72.78	73.20	0.42		11			
		72,78 - 73,20 Dark quartz veining.									
		Veining exhibits boudinaged folding @ 72,90 m.									
		20% veining.									
		Overall 5% pyrite.	571816	74.00	74.20	0.20		12			
		74,00 - 74,20 Quartz+orange carbonate vein @ 70° to c.a. 7% pyrite.									
		74,20 - 76,00 Minor siderite banding @ 70° to c.a.									
		Minor quartz+carbonate+pyrite bands.									
		90,00 - 94,00 Minor siderite bearing lenses.									
	94,00	**E.O.H.**									

Ted Coutts

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-08 **LENGTH:** 90m
LOCATION : **CLAIM No :** 1068871
LONGITUDE : L2+76E **LATITUDE:** 2+20S
ELEVATION: **AZIMUTH:** 165°
STARTED ON : October 07, 1996
COMPLETED ON: October 08, 1996

DEPTH	DIRECTION	DIP
COLLAR	165°	-70°
90m		-70°

HOLE No : LA-96-08
PAGE No 1 **OF** 2

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	2.00	**CASING**									
2.00	68.40	**ALTERNATING CHLORITIC PHYLLITE AND GREYWACKE(?).** Phyllite is dark to medium grey. Minor carbonate veining conformable to schistosity @ 20° to c.a. Trace of pyrite within dark grey horizons as occasional pyrite rich lamella or band. Greywacke is medium to light grey. Massive. 32,80 - 33,00 Laminated carbonate rich horizon. Laminated @ 30° to c.a. 52,40 - 68,40 Frequency of carbonate veining increases. Rock is a greywacke to a siltstone. Trace of pyrite within carbonate veining @ 20° to c.a.	571817	68,40	69,53	1,13		14			
68,40	69,53	**CHLORITIC PHYLLITE.** Rock is grey green banded with dark green pyrite bearing bands. Banding @ 20° to c.a. Pyrite rich bands make up 10% of the rock. Overall 7% pyrite occurring as masses and as cubes mostly within carbonate and dark green bands.									

TED GOETTEL GEOLOGICAL CONSULTANT

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-08

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
69,53	**86,30**	**CHLORITIC PHYLLITE.** Very dark green with laminated dark green and light green horizons. Laminated @ 25° to c.a. Trace of siderite and pyrite. 84,58 - 84,72 1cm wide massive pyrite band @ 25° to c.a.	571818	84.58	84.72	0.14		< 5				
86,30	**90,00**	**BASALT.** Rock is sheared as defined by a well developed schistosity @ 30° to c.a.										
	90,00	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-09 **LENGTH:** 90m
LOCATION : **CLAIM No :** 1194269
LONGITUDE : L1+25E **LATITUDE:** 2+07S
ELEVATION: **AZIMUTH:** 148°
STARTED ON : October 08, 1996
COMPLETED ON: October 09, 1996

DEPTH	DIRECTION	DIP
COLLAR	148°	-70°
90m		-70°

HOLE No : LA-96-09
PAGE No 1 **OF** 3

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	0.90	**CASING**									
0.90	29.28	**BASALT.** Light greenish grey. Mostly massive. Some foliated horizons. Minor barren quartz veinlets @ 40° to c.a. Trace of pyrrhotite.									
29,28	29,40	**QUARTZ VEIN.** 35% chloritic inclusions. Contacts @ 40° to c.a. 3% pyrite within vein.	571819	29,28	29,97	0,69		17			
29,40	40,50	**CHLORITIC PHYLLITE.** Numerous conformable carbonate laminations @ 30° to c.a. 29,40 - 29,97 Laminated horizon. Rock is laminated with dark grey, white carbonate rich lamellae and pyrite lamellae. Laminated @ 30° to c.a. 20% pyrite.									
40,50	43,79	**SILICEOUS HORIZON.** Quartz (chert?) is very fine grained, light grey to white and makes up 55% of the rock. Unit is laminated in certain horizons and ribboned in others. Banding from 25° to 45° to c.a. 5% magnetic pyrrhotite within wall rock inclusions.	571820 571821	40,50 42,00	42,00 43,79	1,50 1,79		25 24			

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-09

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
43,79	**67,51**	**ALTERNATING SEQUENCE OF CHLORITIC PHYLLITE AND BASALT.** 52,89 - 53,52 Numerous quartz bands @ 20° to c.a. Quartz makes up 40% of the rock. Trace of pyrite. 54,65 - 55,25 Minor carbonate veinlets. 55,25 - 56,20 Hematite stained(?) carbonate vein @ 10° to c.a. White with reddish orange staining, coarse grained. No sulphides noted. 56,20 - 58,40 Siliceous horizon (Iron Formation?) Rock is very fine grained, grey to white. 45% magnetite rich masses. Rock is not banded. Contact @ 30° to c.a. Trace of pyrrhotite and pyrite. 58,40 - 67,51 Phyllite. Very dark green to black.										
67,51	**71,95**	**B.I.F.** Contact @ 67,51 @ 40° to c.a. Contact @ 71,95 @ 35° to c.a. 67,51 - 67,62 Siliceous. 2% pyrrhotite occurring as fine disseminated grains within thin bands. 67,62 - 67,71 Quartz vein, white. Contacts @ 90° to c.a. Trace of pyrite within vein. 67,71 - 68,20 Mostly mafic bands. 10% siliceous bands, banding @ 30° to c.a. 5% pyrrhotite within mafic bands and within quartz veinlet @ 60° to c.a. 3% arsenopyrite as occasional medium grained laths.	571822	67,51	68,56	1,05		**435**				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-09

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	
		68,20 - 68,56 Quartz mass. Contacts @ 65° to c.a. 7% arsenopyrite within quartz and as bands @ 30° to c.a.										
		68,56 - 69,70 Siliceous and mafic bands @ low angle to c.a. to 69 metres then @ 60° to c.a. 2% pyrrhotite as conformable masses within mafic bands.	571823	68.56	69.7	1.14		61				
		69,70 - 70,07 Siliceous. 3% arsenopyrite along bands @ 65° to c.a.	571824	69.70	70.07	0.37		**162**				
		70,07 - 71,95 Highly siliceous with magnetite bands. Banding @ 45° to c.a. 25% magnetite and trace of pyrrhotite.	571825 571826	70.07 71.40	71.40 71.95	1.33 0.55		8 6				
71,95	**90,00**	**BASALT.** Grey mottled light green. Coarser grained than usual. Foliated in certain horizons @ 20° to c.a.										
	90,00	**E.O.H.**										

Ted Goutier

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-10 **LENGTH:** 90m
LOCATION : **CLAIM No :**1194270
LONGITUDE : L0+52W **LATITUDE:** 3+00S
ELEVATION: **AZIMUTH:** 156°
STARTED ON : October 09, 1996
COMPLETED ON: October 09, 1996

DEPTH	DIRECTION	DIP
COLLAR	156°	-70°
90m		-70°

HOLE No : LA-96-10
PAGE No 1 **OF** 5

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	3.00	**CASING**									
3.00	39.18	**CHLORITIC PHYLLITE.** Dark green to black. Minor thin carbonate lenses. Trace of pyrite. 38,36 - 38,80 Quartz veining @ 20° to c.a. Overall 10% quartz as 2 cm wide veins and lenses. 3% pyrrhotite.	571827	38,36	38,80	0,44		< 5			
39,18	39,74	**B.I.F.** Highly siliceous. Chert bands make up 80% of the rock. Banding @ 60° to c.a. @ 39,18 m. @ 10° to c.a. @ 39,74 m. Quartz vein @ 30° to c.a. White with irregular contact. Sulphides occur adjacent to the vein. Overall 5% pyrrhotite, 2% pyrite and trace of chalcopyrite.	571828	39,18	39,74	0,56		< 5			
39,74	47,36	**PHYLLITE.** Dark grey. Minor carbonate veinlets. Typical.									

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-10

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	
47,36	**54,42**	**B.I.F.** Contact @ 47,36 m @ 45° to c.a. @ 54,42 m @ 40° to c.a.							Reassay pulps	reassay rejects		
		47,36 - 47,89 50% 1 to 1,5 cm wide chert bands @ 20° to c.a. 50% mafic bands. 1% pyrite and trace of pyrrhotite within mafic bands.	571829	47,36	48,00	0,64		< 5				
		47,89 - 48,00 Arkosic band. Contacts @ 40° to c.a.										
		48,00 - 48,19 30% quartz as masses. Trace of arsenopyrite.	571830	48,00	49,03	1,03		**803**	**820**	**880**		
		48,19 - 49,03 Arsenopyrite rich zone. Mafic bands bear up to 50% arsenopyrite. Banding @ 40° to c.a. Overall 12% arsenopyrite. 48,30-48,40 Quartz vein. Contacts @ 90° to c.a.										
		49,03 - 49,97 Mostly mafic bands. 5% chert bands @ 30° to c.a. Trace of pyrrhotite and chalcopyrite.	571831	49,03	49,97	0,94		< 5				
		49,97 - 50,07 Quartz+carbonate vein. Contacts @ 75° to c.a. 30% pyrite, 10% pyrrhotite and 2% arsenopyrite within vein. Arsenopyrite halo within wall rock (15%) to 50,17m.	571832	49,97	50,17	0,20		**705**	**750**			
		50,07 - 51,16 Banded chert and mafic bands. Chert makes up 80% of the rock and bands range from 1 to 2 cm in width. Mafic bands are millimetric to 1 cm in width. Banding @ 55° to c.a. 3% pyrite occurring within mafic bands.	571833	50,17	51,35	1,18		14				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-10

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	
		51,16 - 52,00 Alternating banded siliceous and mafic bands with grunerite iron formations. Grunerite I.F. is magnetic with mostly millimetric magnetite rich lamellae.							reassay pulps	reassay rejects		
		51,35-51,52 Quartz vein @ 45° to c.a. Irregular contact. 10% pyrrhotite occurring as masses at boundary of vein. 10% pyrite.	571834	51,35	52,00	0,65		**101**				
		51,92- 52,00 Medium to light grey quartz vein @ 30° to c.a. No sulphides noted.										
		52,00 - 53,56 Grunerite Iron Formation. < 5% siliceous bands. 15% magnetite bearing bands. Banding @ 40° to c.a. Trace of pyrite and pyrrhotite.	571835	52,00	53,56	1,56		24				
		53,56 - 53,80 Sulphide I.F. 20% arsenopyrite, 5% pyrrhotite and 2% pyrite occurring as conformable bands.	571836	53,56	54,42	0,86		**428**	**740**	**1.30g/t**		
		53,80 - 53,86 Quartz vein @ 65° to c.a. 5% arsenopyrite and 2% pyrite.										
		53,86 - 54,09 5% arsenopyrite and 3% pyrite as conformable bands.										
		54,09 - 54,19 45% arsenopyrite as cross cutting bands @ 60° to c.a.										
		54,16 - 54,42 Siliceous Banding @ 40° to c.a. Trace of pyrrhotite.										
54,42	**56,55**	**PHYLLITE.** Typical. Foliated @ 20° to c.a.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-10

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	
56,55	59,70	**B.I.F.**							reassay pulps	reassay rejects		
		Contact @ 56,55 m @ 90° to c.a.										
		Contact @ 59,70 m @ 40° to c.a.										
		56,55 - 57,28 Unit consists of boudinaged lenses of chert, grunerite and mafic iron formation.	571837	56,55	57,66	1,11		6				
		Lenses @ low angle to c.a.										
		Trace of pyrrhotite and pyrite.										
		57,28 - 57,66 Banded chert and grunerite bands with minor mafic bands. Banding @ 40° to c.a.										
		Trace of pyrite and pyrrhotite.										
		57,66 - 57,86 10% fine to coarse arsenopyrite, 3% pyrite and 3% pyrrhotite.	571838	57,66	58,73	1,07		**436**	**490**	**490**		
		57,86 - 58,10 White quartz vein @ low angle to c.a.										
		8% arsenopyrite within wall rock.										
		Trace of pyrite within quartz.										
		58,10 - 58,52 Siliceous I.F. with 20% mafic bands.										
		Poorly define banding @ 20° to c.a.										
		15% arsenopyrite within mafic bands.										
		58,52 - 58,73 Quartz vein @ low angle to c.a.										
		Vein exhibits pinch and swell.										
		15% arsenopyrite within wall rock and 1% pyrite within quartz occurring as fracture in fill.										
		58,73 - 59,04 White quartz vein .	571839	58,73	59,70	0,97		**893**	**890**	**640**		
		Contact @ 58,73 m 45° to c.a.										
		Contact @ 59,04 m @ 90° to c.a.										
		Trace of pyrite within quartz occurring as fracture in fill.										
		Trace of arsenopyrite within quartz and wall rock.										
		59,04 - 59,70 Siliceous I.F. with 50% coarse arsenopyrite along bands @ 60° to c.a..										
		Two 1 cm wide massive pyrite bands @ 30° and -45° to c.a.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-10

PAGE No : 5 **OF** 5

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
59,70	90,00	**BASALT.** Medium grained. Locally foliated. Typical. 71,90 - 72,06 Quartz vein @ 25° to c.a. Trace of coarse pyrite within vein.										
	90,00	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-11 **LENGTH:** 102m
LOCATION : **CLAIM No :** 1194269
LONGITUDE : L0+10E **LATITUDE:** 2+82S
ELEVATION: **AZIMUTH:** 146°
STARTED ON : October 09, 1996
COMPLETED ON: October 10, 1996

DEPTH	DIRECTION	DIP
COLLAR	146°	-80°
102m		-80°

HOLE No : LA-96-11
PAGE No 1 **OF** 4

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	1.50	**CASING**							reassay pulps	reassay rejects	
1.50	42.00	**CHLORITIC PHYLLITE.** Dark green to black. Foliated @ 20° to c.a. Numerous boudinaged and folded carbonate lenses. 24,56 Quartz+carbonate vein @ 20° to c.a. 3% fine pyrite.	571840	42,00	42,83	0,83		15			
42,00	42,83	**B.I.F.** 70% chert bands, 30% mafic bands. Contact @ 42,00 m @ 50° to c.a. Contact @ 42,83 m @ 60° to c.a. Banding @ 45° to c.a. 5% pyrrhotite and trace of pyrite and chalcopyrite.									
48,23	50,66	**BASALT.** Medium grey. Massive.									
50,66	64,34	**B.I.F.** Contact @ 50,66 m @ 50° to c.a. Contact @ 64,34 m @ 30° to c.a. 50,66 - 51,90 Siliceous bands (60%), mafic bands (40%). Banding varies between 10 cm. and millimetric in width. Banding @ 20° to c.a. Magnetic pyrrhotite makes up 5% of the rock as very fine disseminated grains within mafic bands.	571841	50,66	52,20	1,54		**189**	**170**	**350**	

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-11

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	
									reassay pulps	reassay rejects		
		51,90 - 52,20 Quartz vein @ 20° to c.a. Medium grey. Trace of pyrrhotite within fractures.	571842	52,20	52,88	0,68		**1,64g/t**	**1.70g/t**	**1.60g/t**		
		52,20 - 52,88 15% arsenopyrite as fine to coarse grains. Trace of pyrrhotite and pyrite.	571843	52,88	53,50	0,62		31				
		52,88 - 53,50 Quartz vein @ 65° to c.a. White. Trace of arsenopyrite at contact @ 53,50 m. Trace of pyrite and pyrrhotite as fracture in fill towards 53,50 m.	571844	53,50	54,90	1,40		24				
		53,50 - 54,90 Siliceous with millimetric veins of a greenish grey material. Banding @ 20° to c.a. Trace of pyrrhotite. 54,20 Quartz vein @ 45° to c.a. 2 cm. wide. 10% pyrrhotite and trace of chalcopyrite. 54,53 Grey quartz vein @ 35° to c.a. 5 millimetres wide. Trace of pyrrhotite. 54,85-54,90 White quartz vein @ 60° to c.a. Trace of pyrrhotite.	571845	54,90	56,23	1,33		19				
		54,90 - 56,23 Banded siliceous (40%), mafic (30%). and grunerite (40%) bands @ 20 ° to c.a. Trace of pyrrhotite within mafic bands.	571846	56,23	56,39	0,16		**3,22g/t**	**2.95g/t**			
		56,23 - 56,39 40% arsenopyrite as conformable bands and lenses @ 20° to c.a.	571847	56,39	57,12	0,73		**469**	**710**	**840**		
		56,93 - 57,12 B.I.F. with conformable and cross cutting massive pyrrhotite lamellae. Banding @ 30° to c.a. Cross cutting lamellae from 60 to 90° to c.a. 5% pyrrhotite.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-11

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
		57,12 - 57,21 White quartz vein @ 30° to c.a. conformable to banding. No sulphides noted.							reassay pulps	reassay rejects		
(40%)		57,21 - 58,50 siliceous bands (50%). , Grunerite bands and mafic bands (10%). Unit exhibits drag folding. Trace of pyrrhotite.	571848	57,12	58,50	1,38		26				
		58,50 - 59,00 Drag folded mineralized zone. 15% arsenopyrite as conformable bands and masses. 3% pyrrhotite as conformable bands and cross cutting masses. 1% pyrite adjacent to cross cutting pyrrhotite masses. Trace of chalcopyrite.	571849	58,50	59,40	0,90		**1,33g/t**	**1.65g/t**	**1.60g/t**		
		59,00 - 59,27 Quartz vein. Irregular contact @ 59,00 m @ 20° to c.a. Contact @ 59,27 m @ 90° to c.a. 10% pyrrhotite as fracture in fill towards 59,27 m. 5% pyrite within pyrrhotite.										
		59,27 - 59,40 15% arsenopyrite as coarse grains. 3% fine disseminated pyrrhotite.										
		59,40 - 59,79 Siliceous bands with pyrrhotite rich lamellae @ 50° to c.a. 5% pyrrhotite.	571850	59,40	59,79	0,39		**105**	50	80		
		59,79 - 60,68 Banding @ 30° to c.a. Minor strongly magnetic mafic bands. Trace of pyrrhotite.	571851	59,79	61,20	1,41		15	10	10		
		60,68 - 63,60 Rock exhibits folding. Trace of pyrrhotite.	571852 571853	61,20 62,70	62,70 64,34	1,50 1,64		< 5 55				
		63,60 - 34,34 Banding @ all angles to c.a. Trace to 1% pyrrhotite.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-11

PAGE No : 4 **OF** 4

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
64,34	102,00	**BASALT.** Medium grey to 72 m. Gradually turning grey green mottled white to 81 m. Gradually turning mottled dark green to 92 m. From 92 to 102 m rock is grey.										
	102,00	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-12 **LENGTH:** 99m
LOCATION : **CLAIM No :** 1194269
LONGITUDE : L0+06E **LATITUDE:** 3+15S
ELEVATION: **AZIMUTH:** 310°
STARTED ON : October 10, 1996
COMPLETED ON: October 11, 1996

DEPTH	DIRECTION	DIP
COLLAR	310°	-72°
102m		-74°

HOLE No : LA-96-12
PAGE No 1 **OF** 9

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
0,00	0,78	**CASING**							Reassay pulps	Reassay rejects	
0,78	66,32	**B. I. F.**									
		0,78 - 3,42 Banded siliceous and mafic bands. Bands are millimetric to > 1 cm. in width. Banding is parallel to 15° to c.a. Numerous leached pyrite bearing bands 0,5 cm in width @ 70° to c.a. Overall trace of pyrite.	571854	0,78	2,24	1,46		88	**110**	90	
			571855	2,24	3,42	1,18		32	20	30	
		3,42 - 6,38 Very light to dark grey chert(?) band. Trace of pyrrhotite and pyrite as veinlets @ 70 to 80° to c.a.	571856	3,42	4,40	0,98		**1,84g/t**	**2.54g/t**	**5.05g/t**	
			571857	4,40	5,90	1,50		59	30	50	
		4,40-4,58 Quartz vein @ 70° to c.a. 5% pyrrhotite as veinlets and as fracture in fill.	571858	5,90	6,60	0,70		< 5	< 5	20	
		6,38 - 6,60 Quartz injected I.F. Poorly defined banding @ 20° to c.a. Trace of pyrrhotite.									
		6,60 - 7,30 Quartz+carbonate vein. Numerous wall rock inclusions to 6,90 m. Contact @ 7,30 m @ 90° to c.a. Trace of pyrite as irregular masses.	571859	6,60	7,30	0,70		**152**	**140**	90	
		7,30 - 9,00 Siliceous with folded pyrrhotite and pyrite rich band. Banding at low angle to c.a. 35% pyrrhotite and 30% pyrite within band. Overall 17% pyrrhotite and 15% pyrite.	571860	7,30	8,37	1,07		**144**	**200**	**160**	
			571861	8,37	9,00	0,63		**381**	**380**	**330**	

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-12

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
									reassay pulps	reassay rejects		
		9,00 - 9,80 Siliceous and mafic fragments with carbonate lenses and masses. Trace of pyrrhotite.	571862	9,00	9,97	0,97		40	30	**100**		
		9,80 - 9,97 Quartz+carbonate vein @ 40° to c.a. Trace of pyrrhotite.										
		9,97 - 10,00 Massive pyrrhotite band. Trace of pyrite within pyrrhotite band.	571863	9,97	11,30	1,33		**841**	**820**	**950**		
		10,00 - 12,46 Banded mafic and grunerite bands with minor siliceous bands @ low angle to c.a. 3% pyrrhotite occurs as fine disseminated grains within mafic bands. 1% pyrite occurs as cross cutting 5 mm wide veinlets @ 50° to c.a.	571864	11,30	12,46	1,16		**3,32g/t**	**3.30g/t**	**2.85g/t**		
		12,46 - 13,78 Grunerite rich with minor mafic bands. Banding at low angle to c.a. Trace of pyrrhotite along boundary of mafic band from 13,50 m. to contact with quartz vein at 13,78 m.	571865	12,46	13,50	1,04		59	70	60		
		13,78 - 13,88 Quartz vein @ 60° to c.a. 5% pyrrhotite and 5% pyrite within vein.	571866	13,50	14,53	1,03		85	70	90		
		13,88 - 14,23 Banding at low angles to c.a. Pyrite and pyrrhotite bearing mafic bands. Overall 5% pyrrhotite and 3% pyrite.										
		14,23 - 14,29 Quartz+carbonate vein @ 70° to c.a. Trace of pyrite within vein.										
		14,29 - 14,53 Quartz+carbonate lens with pyrite rich margin. Overall 2% pyrite and 1% pyrrhotite.										
		14,53 - 14,68 Banded @ 30° to c.a. Rock is chloritic adjacent to quartz vein @ 14,68 m. 15% arsenopyrite, 3% pyrrhotite and trace of chalcopyrite.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-12

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
									reassay pulps	reassay rejects		
		14,68 - 14,80 Quartz vein @ 70° to c.a. Medium grey. 2% pyrrhotite and trace of pyrite adjacent to chloritic inclusions.	571867	14,53	16,00	1,47		**304**	**690**	**450**		
		14,80 - 15,70 Quartz vein. White. Contact @ 14,82 m @ 30° to c.a. Contact @ 15,70 m @ 45° to c.a. Minor chloritic inclusions. 1% pyrite adjacent to inclusions. 3% arsenopyrite as fine to coarse grains within inclusions.										
		15,70 - 21,60 Banded light green, black and grey.										
		15,70 - 16,00 10% arsenopyrite , 6% pyrrhotite and trace of pyrite along mafic bands generally @ 10° to c.a. with some folding.										
		16,00 - 16,83 Banding exhibits drag folding. Overall 1% pyrrhotite and trace of pyrite and chalcopyrite within mafic bands.	571868	16,00	16,83	0,83		47	20	**130**		
		16,83 - 21,60 Banding @ low angle to c.a. Locally mafic bands are magnetic,. Locally 5% pyrrhotite, 1% pyrite and trace of arsenopyrite. Overall trace of sulphides.	571869	16,83	18,00	1,17		65	70	60		
			571870	18,00	20,00	2,00		27	30	30		
			571871	20,00	21,23	1,23		49	30	30		
			571872	21,23	21,60	0,37		8	< 5	< 5		
			571873	21,60	22,62	1,02		**801**	**1.05g/t**	**500**		
		21,60 - 21,80 Chert spotted with 3% pyrrhotite and trace of arsenopyrite.										
		21,80 - 22,13 Quartz vein. Contacts @ 90° to c.a. 35% chloritic inclusions. 3% arsenopyrite.										
		22,13 - 22,62 Banding @ 30° to c.a. 10% arsenopyrite, 5% pyrrhotite and 1% pyrite.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-12

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
									reassay pulps	reassay rejects		
		22,62 - 24,85 Banded light green and black. Banding at low angle to c.a. Certain mafic bands are highly magnetic. Trace of pyrrhotite.	571874	22.62	23.84	1.22		39	50	80		
			571875	23.84	24.85	1.01		6	< 5	20		
		24,58 - 25,76 6% arsenopyrite, 3% pyrrhotite and 1% pyrite. 25,13 1 cm wide quartz vein @ 65° to c.a.	571876	24.85	25.76	0.91		**1.06g/t**	**1.15g/t**	**1.25g/t**		
		25,76 - 27,00 White quartz vein @ 30° to c.a. 20% included wall rock fragments. 2% arsenopyrite within quartz and wall rock. 1% pyrite.	571877	25.76	27.00	1.24		**574**	**610**	**560**		
		27,00 - 27,45 Arsenopyrite halo adjacent to quartz vein. 5% arsenopyrite.	571878	27.00	27.45	0.45		**145**	**140**	**130**		
		27,45 - 29,00 Banded grunerite and mafic bands at low angle to c.a. Mafic bands vary in width from 3 to 1,5 cm. 10% pyrrhotite and 2% pyrite within mafic bands.	571879	27.45	29.00	1.55		**135**	**160**	**170**		
		29.00 - 30.26 Same as 27.45-29.00m 3% pyrrhotite.	571880	29.00	30.55	1.55		77	80	90		
		30.26 - 30.55 Mostly grunerite bands.										
		30.55 - 31.06 Banding @ 20° to c.a. 3% arsenopyrite and trace of pyrrhotite. 30.77-30.86 White quartz vein @ 65° to c.a. No sulphides noted.	571881	30.55	31.06	0.51		**362**	**290**	**280**		
		31.06 - 35.70 Banding exhibits drag folding. Trace of pyrrhotite and pyrite.	571882	31.06	32.50	1.44		81	50	**160**		
			571883	32.50	34.00	1.50		**132**	**120**	70		
			571884	34.00	35.70	1.70		33	30			
		35.70 - 37.10 Chert band @ low angle to c.a. Trace of pyrrhotite and arsenopyrite within thin mafic band.	571885	35.70	37.10	1.40		**226**	**360**	**150**		
			571886	37.10	38.60	1.50		96	**100**			
		37.10 - 40.01 50% mafic and 50% chert bands. Trace of pyrite and pyrrhotite.	571887	38.60	40.01	1.41		52	30	50		

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-12

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
									reassay pulps	reassay rejects		
		40.01 - 40.63 Well mineralized horizon. 8% arsenopyrite and 1% pyrite. 40.18-40.33 White quartz+carbonate vein @ 80° to c.a. @ 40.18 m and @ 45° to c.a. @ 40.33 m. Carbonate makes up 15% of the rock. Trace of arsenopyrite.	571888	40..01	40.63	0.62		**762**	**820**	**1.00g/t**		
		40.63 - 42.48 Banded mafic and siliceous bands @ low angle to c.a. Mafic bands are magnetite bearing. Trace of pyrrhotite.	571889	40.63	41.84	1.21		94	**220**	**310**		
			571890	41.84	42.48	0.64		**368**	**351**	**370**		
			571891	42.48	43.00	0.52		**1.26g/t**	**2.45g/t**	**2.30g/t**		
		42.48 - 43.00 Well mineralized horizon. Banding @ 40° to c.a. 25% arsenopyrite, 15% pyrrhotite and trace of chalcopyrite. 42.66-42.80 White quartz vein. Contact @ 42.66 m @ 50° to c.a. , @ 42.80 m @ 80° to c.a. 15% pyrrhotite within vein as fracture in fill.	571892	43.00	43.65	0.65		**104**	**130**	**150**		
		43.00 - 44.04 Banded mafic and light green siliceous bands @ low angle to c.a. Overall 10% pyrrhotite, 1% arsenopyrite and trace of chalcopyrite occurring within mafic bands.	571893	43.65	44.26	0.61		**1.30g/t**	**920**	**900**		
		44.04 - 44.16 Massive sulphide band @ 70° to c.a. 90% pyrrhotite, 6% chalcopyrite and 4% arsenopyrite.										
		44.16 - 44.26 Thin pyrrhotite lenses and bands. 20% pyrrhotite and trace of arsenopyrite.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-12

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
									reassay pulps	reassay rejects		
		44.26 - 46.03 Banded mafic and siliceous bands. Overall 5% pyrrhotite and trace of arsenopyrite.	571894	44.26	46.03	1.77		**457**	**180**	**340**		
		45.15 Quartz vein, 1,5 cm wide, @ 70° to c.a. Pyrrhotite occurs at boundary of vein and mafic bands.										
		45.65 Quartz vein , 1,5 cm wide, @ 60° to c.a. Massive pyrrhotite and arsenopyrite adjacent to vein.	571895	46.03	46.62	0.59		28	30	30		
		46.03 - 46.62 Banded mafic and grunerite bands @ low angle to c.a. Mafic bands are magnetite bearing.	571896	46.62	47.22	0.60		**179**	**260**	**250**		
		Trace of pyrrhotite.	571897	47.22	47.80	0.58		**699**	**830**	**670**		
		46.62 - 47.53 Banded siliceous and mafic bands. Banding exhibits folding. Mafic bands are pyrrhotite bearing. 46.62-47.22 10% pyrrhotite. 47.22-47.53 5% pyrrhotite and 5% arsenopyrite.										
		47.53 - 47.80 Quartz vein with carbonate at boundary. Contact @ 48.53 m @ 75° to c.a. Contact @ 48.80 m @ 80° to c.a. 1% pyrite as fracture in fill.	571898	47.80	48.41	0.61		**1.44g/t**	**2.65g/t**	**2.55g/t**		
		47.80 - 48.41 Well mineralized horizon. Overall 30% arsenopyrite, 20% pyrrhotite and 3% pyrite. 48.26-48.41 Fold nose consisting of massive sulphides. 60% arsenopyrite, 20% pyrrhotite 15% pyrite and 5% quartz.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-12

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
									reassay pulps	reassay rejects		
		48.41 - 48.74 Siliceous fold nose at 40.51 m then mafic pyrrhotite rich bands @ 20° to c.a. Overall 5% pyrrhotite.	571899	48.41	48.74	0.33		24	10	10		
		48.74 - 49.11 Folded,. 20% arsenopyrite as coarse crystals and 5% pyrrhotite.	571900	48.74	49.72	0.98		**927**	**1.45g/t**	**1.35g/t**		
		49.11 - 49.50 Quartz+carbonate vein. Contact @ 49.11 m @ 70° to c.a. Contact @ 49.50 m at low angle to c.a. Trace of pyrrhotite within vein.										
		49.50 - 49.72 10% arsenopyrite along bands at low angle to c.a.										
		49.72 - 50.51 Banded siliceous and magnetic mafic bands @ low angle to c.a. 3% magnetite rich bands. Trace of pyrrhotite.	571901	49.72	50.51	0.79		**167**	**130**	**110**		
		50.51 - 51.85 30% pyrrhotite bearing mafic bands. Banding exhibits folding. Overall 5% pyrrhotite and trace of arsenopyrite. 50.51-50.54 Massive pyrrhotite+arsenopyrite band @ 90° to c.a. 50.45 Massive pyrrhotite+ arsenopyrite lens.	571902	50.51	51.85	1.34		**691**	**750**	**490**		
		51.85 - 55.39 Drag folded siliceous and magnetic mafic bands.	571903	51.85	53.32	1.47		46	20	30		
			571904	53.32	54.62	1.30		14	< 5	5		
		55.39 - 55.69 Mafic bands with grunerite bands at low angle to c.a. Overall 10% pyrrhotite and 2% arsenopyrite. 55.65-55.69 pyrrhotite+arsenopyrite band @ 90° to c.a.	571905	54.62	55.39	0.77		5	< 5	< 5		

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
									reassay pulps	reassay rejects		
		55.69 - 56.21 5% pyrrhotite as bands and masses.										
		56.21 - 58.85 Folded and boudinaged horizon.	571906	55.39	56.21	0.82		**508**	**650**	**630**		
		Pyrrhotite lenses and bends ranging from millimetric to 1 cm wide @ 60° to c.a.	571907	56.21	57.70	1.49		**572**	**530**	**490**		
		Overall 1% pyrrhotite within mafic bands and as cross cutting veinlets and lenses.	571908	57.70	58.85	1.15		**230**	**300**	**370**		
		58.85 - 59.00 Massive sulphide band @ 80° to c.a. 80% pyrrhotite, 5% arsenopyrite , 1% pyrite and trace of chalcopyrite.	571909	58.85	59.00	0.15		**1.81g/t**	**2.15g/t**			
		59.00 - 60.42 Mostly chert with minor mafic bands. Highly folded. Trace of pyrrhotite.	571910	59.00	60.42	1.42		15	5			
		60.42 - 61.25 Siliceous and mafic bands. Overall 5% pyrrhotite and trace of arsenopyrite within mafic bands and as cross cutting bands.	571911	60.42	61.24	0.82		**1.73g/t**	**1.70g/t**			
		60.62 5mm wide massive pyrrhotite band @ 75° to c.a.										
		60.80 1,5 cm wide massive pyrrhotite band with trace of arsenopyrite @ 60° to c.a.										
		61.25 - 66.32 Mafic, siliceous and grunerite bands at low angle to c.a.	571912	61.24	62.75	1.51		**155**	**160**			
		Minor folding.	571913	62.75	63.87	1.12		**131**	**100**			
		Contact @ 66.32 m @ 30° to c.a.	571914	63.87	64.88	1.01		8	< 5			
		62.57-63.87 3% pyrrhotite and trace of arsenopyrite.	571915	64.88	66.32	1.44		< 5	< 5			
		63.87-66.32 Trace of pyrrhotite.										
66.32	**71.20**	**BASALT.** Grey. Massive. Typical.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-12

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	
71.20	75.50	**B.I.F.** Contact @ 71.20 m @ 20° to c.a. Contact @ 75.50 m @ 15° to c.a. Minor magnetite bands. Overall trace of pyrrhotite. 71.60 - 71.74 Quartz+carbonate vein @ 30° to c.a.										
75.50	77.40	**CHLORITIC PHYLLITE.** Minor boudinaged quartz+carbonate veinlets at low angle to c.a.										
77.40	83.20	**BOUDINAGED SILICEOUS I.F.** Minor magnetite. Trace of pyrrhotite. Core is at contact between phyllite and I.F.										
83.20	99.00	**BASALT** Dark green to black. Massive. Trace of pyrrhotite.										
	99.00	**E.O.H.**										

Fred Boutet

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-13 **LENGTH:** 150m
LOCATION : **CLAIM No :** 1148369
LONGITUDE : L1W **LATITUDE:** 1+50N
ELEVATION: **AZIMUTH:** 160°
STARTED ON : October 17, 1996
COMPLETED ON: October 18, 1996

DEPTH	DIRECTION	DIP
COLLAR	160°	-45°
150m		-44°

HOLE No : LA-96-13
PAGE No 1 **OF** 2

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	3.60	**CASING**									
3.60	41.33	**CHLORITIC PHYLLITE.** Rock is dark to medium greenish grey. In general well developed foliation @ 60° to c.a. Locally , conformable carbonate lenses and lamellae. Trace of pyrite within carbonate lamellae or as occasional cube.									
		29.40 - 29.86 Laminated quartz+carbonate zone. 85% quartz, 5% carbonate and 15% wall rock. Banding conformable to schistosity @ 60° to c.a. 3% fine disseminated pyrite within wall rock.	571916	29.40	29.86	0.46		< 5			
		33.00 - 34.00 Brittle faulting with carbonate in fill.									
41.33	42.21	**SILICIFIED ZONE.** Rock is banded light to dark grey and black. Banding @ 55° to c.a. 3% fine disseminated pyrite as cubes and as wisps.	571917	41..33	42.21	0.88		7			
42.21	45.00	**BASALT.** Medium grey. Numerous foliated horizons @ 50° to c.a. Rock is carbonatised.									
		43.20 - 43.82 Quartz+carbonate vein @ 15° to c.a. Minor wall rock inclusions. No sulphides noted.									

TED GOETTEL GEOLOGICAL CONSULTANT

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-13

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm
45.00	**47.35**	**SHEAR ZONE.** Rock is laminated to banded dark to medium grey and black. Rock is highly siliceous. Banding @ 60° to c.a. Some horizons are fragmented with a siliceous groundmass. Minor strongly magnetic , magnetite bearing, horizons. Overall 5% pyrite, locally up to 10%, trace of magnetite.	571918 571919	45.35 46.35	46.35 47.35	1 1		11 < 5			
47.35	**49.92**	**BASALT.** Medium grey with numerous thin carbonate veinlets @ 60° to c.a. Rock is massive.									
49.92	**57.49**	**SHEAR ZONE.** Rock is laminated to banded dark grey and dark green to black. Rock is siliceous. Laminated @ 55 to 70° to c.a. Numerous magnetite bearing bands. Overall 3% pyrite, locally up to 15%, Trace of graphite.	571922 571923 571924 571925 571919 571920	49.92 51.23 52.76 54.16 55.64 57.00	51.23 52.76 54.16 55.64 57.00 57.49	1.31 1.53 1.40 1.48 1.36 0.49		< 5 < 5 < 5 < 5 < 5 < 5			
57.49	**150.00**	**BASALT.** Medium grey to greyish green mottled white. Weakly foliated in certain horizons. Fine to medium grained. Pillow margins(?) at all angles to c.a. Trace of pyrrhotite.									
	150.00	**E.O.H.**									

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-14 LENGTH: 150m
LOCATION : CLAIM No : 1174244
LONGITUDE : L2E LATITUDE: 2+50N
ELEVATION: AZIMUTH: 160°
STARTED ON : October 18, 1996
COMPLETED ON: October 19, 1996

DEPTH	DIRECTION	DIP
COLLAR	160°	-45°
150m		-36°

HOLE No : LA-96-14
PAGE No 1 OF 3

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.

LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	12.20	**CASING**									
12.20	90.00	**CHLORITIC PHYLLITE.** Dark green to medium grey. Strongly foliated with numerous carbonate veinlets @ 60° to c.a. Trace of pyrrhotite within carbonate veinlets. 21.10 - 21.27 Quartz+carbonate+sericite(?) vein @ 60° to c.a. Mottled white, grey and light green. No sulphides noted. 27.23 - 27.39 Carbonate vein @ 60° to c.a. 2% pyrrhotite as conformable lamellae. 35.55 - 35.74 Carbonate rich zone. Banded @ 60° to c.a. 3% pyrrhotite as conformable lenses and lamellae. 46.25 - 46.58 White quartz vein . Contact @ 46.25 m @ 15° to c.a. Contact @ 46.58 m @ 90° to c.a. 5% carbonate within vein. No sulphides noted. 52.04 - 52.25 Quartz+carbonate vein @ 65° to c.a. 40% carbonate, 50% quartz and 10% wall rock fragments. Trace of pyrite.									

TED GOETTEL GEOLOGICAL CONSULTANT

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm
		54.86 - 55.00 Carbonate rich zone. 75% carbonate, 10% quartz and 15% wall rock. Banded @ 60° to c.a. 1% magnetic pyrrhotite and trace of pyrite.									
		64.04 - 65.60 Carbonate rich zone. Rock is banded medium grey, grey green and black. Banding @ 65° to c.a. Carbonate makes up 60% of the rock. 5% pyrrhotite occurring as lamellae and as wisps, 1% pyrite. 65.00 white carbonate in filled breccia over 10 cm.	571926 571927	64.04 65.00	65.00 65.50	0.96 0.50		16 18			
		67.84 - 68.39 Same as unit @ 64.04-65.60 m.	571928	67.84	68.39	0.55		17			
		68.39 - 69.00 Quartz+carbonate vein @ 30° to c.a. 50% white quartz and 50% grey medium grained carbonate. Trace of pyrite within carbonate.	571929	68.39	69.00	0.61		< 5			
90.00	**103.49**	**MAFIC TO INTERMEDIATE TUFF.** Medium to dark grey. Minor orange hematised lamellae.									
103.49	**117.00**	**CHLORITIC PHYLLITE.** Numerous carbonate rich horizons. 109.75 - 110.05 10% carbonate lenses @ 60° to c.a. 5% pyrite and trace of chalcopyrite within carbonate lenses 110.50 - 110.95 5% carbonate lenses. 1% pyrite.	571930	109.75	110.05	0.30		< 5			
117.00	**150.00**	**PHYLLITE WITH TUFFACEOUS HORIZONS.** Grey with certain horizons laminated dark and light green.									

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-14

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
		117.28 - 117.37 Quartz vein, white. Contacts are faulted and chloritic. Boundaries are leached and resemble fault gauge. Trace of pyrite within gauge. 118.27 - 118.37 Quartz vein. White. Contacts @ 65° to c.a. Faulted @ 25° to c.a. with carbonate in fill. Trace of pyrite and chalcopyrite within carbonate. 120.93 - 121.45 Quartz vein, white, @ 45° to c.a. 45% chloritic fragments. trace of chalcopyrite. 122.18 - 122.38 Quartz vein , white, massive. Contact @ 30: to c.a. No sulphides noted. 149.46 - 149.95 Quartz+carbonate zone. Banded @ 75° to c.a. conformable to schistosity. 70% quartz, 20% carbonate, 15% wall rock and 5% pyrite+pyrrhotite.										
	150.00	**E.O.H.**										

Ed Cootte

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-15 **LENGTH:** 150m
LOCATION : **CLAIM No :** 1174264
LONGITUDE : L5W **LATITUDE:** 3+00N
ELEVATION: **AZIMUTH:** 160°
STARTED ON : October 19, 1996
COMPLETED ON: October 20, 1996

DEPTH	DIRECTION	DIP
COLLAR	160°	-45°
150m		-42°

HOLE No : LA-96-15
PAGE No 1 **OF** 3

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	1.70	**CASING**									
1.70	43.58	**BASALT.** Medium to dark grey green. Mostly massive. Gradually attaining a foliation towards 43.58 m. 11.00 - 11.20 Quartz+carbonate vein @ low angle to c.a. True width of 3 cm. Trace of pyrrhotite within fracture which penetrates the wall rock. 21.25 Quartz vein @ 50° to c.a. True width of 3 cm. No sulphides noted. 23.36 - 23.46 White quartz+carbonate vein @ 40° to c.a. 90% quartz and 10% carbonate. Sharp contacts. No sulphides noted. 25.18 - 25.30 Quartz+carbonate vein. Contact @ 25.18 m @ 40° to c.a. Contact @ 25.30 m @ 60° to c.a. No sulphides noted. 23.64 2 cm wide quartz+carbonate vein @ 50° to c.a. 95% quartz and 5% calcite. Sharp contacts. 26.63 - 26.71 Quartz+carbonate vein @ 40° to c.a. 50% quartz and 50% coarse calcite. No sulphides noted.									

TED GOETTEL GEOLOGICAL CONSULTANT

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-15

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
		27.16 - 27.30 Quartz+carbonate vein @ 30° to c.a. No sulphides noted. 28.00 - 28.15 Quartz+carbonate vein @ 55° to c.a. No sulphides noted. 29.05 - 29.15 Carbonate vein @ 40° to c.a. No sulphides noted. 36.80 - 37.40 Fractured horizon. 10% carbonate as matrix to broken up basalt.										
43.58	**62.50**	**FOLIATED BASALT.** 43.58 - 43.95 Siliceous horizon. Rock is banded white, medium grey and black. 60% white quartz, 30% grey carbonate and 10% wall rock. Banding @ 60° to c.a. 1% pyrite. 44.16 - 44.25 50% carbonate rich bands @ 60° to c.a. 5% pyrite. 44.63 - 45.37 25% carbonate bands @ 60° to c.a. Minor quartz. 5% pyrite and trace of chalcopyrite. 48.30 Carbonate in filled fault breccia @ 20° to c.a. 56.50 Carbonate in filled breccia @ 35° to c.a.	571931	43.58	43.95	0.37		< 5				
			571932	44.63	45.37	0.74		< 5				
62.50	**69.00**	**CHLORITIC PHYLLITE.** 63.00 - 63.50 35% conformable quartz+carbonate lenses @ 65° to c.a. Trace of pyrite. 64.48 - 64.58 Quartz vein @ 50° to c.a. White to translucent light grey. < 5% included wall rock fragments. No sulphides noted.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-15

PAGE No : 3 **OF** 3

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
		65.43 - 65.56 Siliceous band @ 60° to c.a. Trace of magnetic pyrrhotite. 65.72 - 65.83 Siliceous band @ 50° to c.a. 1 cm wide magnetite band within unit. Trace of pyrrhotite. 68.82 - 68.94 Siliceous band @ 50° to c.a. Overall 5% chalcopyrite occurring within medium grey quartz band and as disseminated specks.										
69.00	**85.00**	**FAULT ZONE.** Rock gradually exhibits carbonate in filled fractures and brecciated zones mostly at low angles to c.a. Trace of pyrite in certain horizons.									
85.00	**129.00**	**BASALT ALTERNATING WITH CHLORITIC PHYLLITE.** Trace of pyrite within carbonate lenses within chloritic phyllite. Carbonate lens are conformable to the schistosity @ 70° to c.a. 95.74 - 96.00 Siliceous banded horizon. 75% quartz, 20% wall rock and 5% pyrite. Banding @ 65° to c.a. 106.60 - 107.20 Quartz+carbonate rich horizon. 1% pyrrhotite.	571934	95.74	96.01	0.27		< 5				
129.00	**150.00**	**BASALT.** Massive. Trace of pyrrhotite as disseminated grains.										
	150.00	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-16 **LENGTH:** 150m
LOCATION : **CLAIM No :** 1174250
LONGITUDE : L14E **LATITUDE:** 8+00N
ELEVATION: **AZIMUTH:** 160°
STARTED ON : October 20, 1996
COMPLETED ON: October 21, 1996

DEPTH	DIRECTION	DIP
COLLAR	160°	-45°
150m		-45°

HOLE No : LA-96-16
PAGE No 1 **OF** 2

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	3.00	**CASING.**									
3.00	44.40	**PHYLLITE.**									
		Medium grey to greyish green.									
		Foliated @ 50° to c.a.									
		3.00 - 18.00 Numerous conformable carbonate veinlets and lenses. Trace of pyrite.									
		21.00 - 24.20 Trace of pyrite as occasional medium grained cube.									
		26.16 - 26.24 Siliceous band @ 45° to c.a. 2% pyrrhotite and trace of pyrite.									
		40.32 - 40.49 Siliceous and carbonate rich horizon. Banded @ 45° to c.a. 20% quartz, 60% carbonate, 15% wall rock and 5% pyrite.	571935	40.32	40.49	0.17		67			
		40.49 - 44.40 Gradually thin carbonate lamellae cross cutting the schistosity appear. Schistosity @ 55° to c.a. Veinlets @ -55° to c.a. Some veinlets are hematised.									
44.40	122.00	**INTERMEDIATE TUFF**									
		Rock is light olive green with numerous dark brownish orange (hematised) lenses and veinlets.									
		46.97 - 47.66 Quartz vein, white to medium grey. 15% chloritic bands and lenses. Contacts are in ground core. Trace of pyrite.	571936	46.97	47.60	0.63		< 5			

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-16

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm
		51.00 - 93.96 Rock is banded light grey green, medium grey and dark green with occasional brownish orange hematised lamellae and bands. Banding @ 60° to c.a. Occasional carbonate lens with trace of pyrite and chalcopyrite.	571937	93.69	95.10	1.14		< 5			
		93.96 - 95.10 Quartz vein @ 40° to c.a. White to medium grey with numerous black to green chloritic inclusions. Vein is banded quartz+chlorite for fist 15 cm. Vein exhibits leached cavities. 5% pyrite and trace of chalcopyrite.									
		95.10 - 100.40 Banding @ 55 to 60° to c.a.									
		100.40 - 100.58 Quartz vein @ 60° to c.a. Medium grey. Vein is highly leached. 10% pyrite as fine disseminated grains.	571938	100.10	100.58	0.48		7			
		101.10 - 101.30 2 pyrite rich bands @ 55° to c.a. Overall 5% pyrite.									
122.00	**150.00**	**PYROXENITE** Black mottled grey. Very fine grained to 123 m then medium grained. Highly magnetic.									
		147.00 Serpentinized fracture @ low angle to c.a.									
	150.00	**E.O.H.**									

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-96-17 **LENGTH:** 150m
LOCATION : **CLAIM No :** 1174250
LONGITUDE : L15E **LATITUDE:** 7+25N
ELEVATION: **AZIMUTH:** 160°
STARTED ON : October 21, 1996
COMPLETED ON: October 22, 1996

DEPTH	DIRECTION	DIP
COLLAR	160°	-45°
150m		-44°

HOLE No : LA-96-17
PAGE No 1 OF 2

CORE STORED AT : Beardmore
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm
0,00	2.30	**CASING.**									
2.30	42.00	**BASALT.** Medium greyish green spotted white. Fine grained feldspars are aligned giving the rock a poorly defined foliated appearance. Foliated @ 55° to c.a. << 1% thin quartz+carbonate veinlets. 37.00 - 42.00 Rock gradually gets a banded appearance, by the presence of orange and dark green bands. @ 42,00 m white feldspar laths disappear.									
42.00	50.20	**MAFIC TO INTERMEDIATE TUFF(?)** Banded olive green, dark green and orange (hematite). Banding @ 60° to c.a. Trace of pyrite occurring within thin carbonate bands. 43.82 - 44.20 10 cm wide carbonate band @ 55° to c.a. 15% pyrite within band. Overall 3% pyrite.	571939	43.82	44.20	0.38		16			
50.20	69.00	**INTERMEDIATE TUFF WITH BASALT.** Rock is laminated medium grey green and grey in certain horizons , and massive in other horizons. Trace of pyrite within carbonate lenses.									
69.00	71.35	**PYROXENITE.** Dark grey spotted white. Weakly magnetic. Contacts are gradational.									

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-96-17

PAGE No : 2 OF 2

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	
71.35	103.00	**INTERMEDIATE TUFF.** Rock is laminated to banded dark grey green and light greenish buff. Minor orange hematised bands. Banding @ 60° to c.a. Trace of pyrite within carbonate lenses.										
103.00	117.80	**BASALT.** Dark grey with orange hematised zones. Massive. Hematised bands cut core at all angles. No sulphides noted.										
117.80	150.00	**PYROXENITE** Black mottled grey. Massive Highly magnetic.										
	150.00	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-97-01 **LENGTH:** 150m
LOCATION : **CLAIM No :** 1194269
LONGITUDE : L0+30 E **LATITUDE:** 3+65 S
ELEVATION: **AZIMUTH:** 105 °
STARTED ON : October 29, 1997
COMPLETED ON: October 30, 1997

DEPTH	DIRECTION	DIP
COLLAR	105°	-45°
117m		-46°

HOLE No : LA-97-01
PAGE No 1 **OF** 3

CORE STORED AT : Beardmore OGS core library
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
0,00	7,0	**OVERBURDEN**										
7,0	33,3	**BASALT** Medium greyish green. Weakly defined foliation @ 30° to c.a. Numerous carbonate veinlets @ all angles to c.a. but mostly conformable to foliation. Trace of pyrite as occasional isolated cube.										
33,3	57,0	**CHLORITIC PHYLLITE.** Dark green . Numerous white carbonate lamellae and lenses. Foliated @ 35° to c.a. Trace of pyrite. 37,9 - 45,0 Incipient carbonatized. Very light green. Numerous conformable carbonate veinlets and lenses. 45,0 - 51,3 Alternating light and dark green phyllite. Folded quartz + carbonate veinlets. Trace of pyrite within carbonate veinlets and lenses. 51,3 - 52,5 10% quartz + carbonate veinlets and lenses. 1 to 2% pyrite.										
57,0	66,0	**BASALT** Banded medium and light grey. Well developed foliation @ 25° to c.a. in certain horizons. Numerous conformable quartz + carbonate veinlets										

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-01

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
66,0	76,55	**PHYLLITE** Dark green with white bands. Numerous conformable quartz + carbonate veinlets and lenses. Foliated @ 30° to c.a. 67,82 - 67,60 70% quartz + carbonate veinlets. 5% magnetite and 5% pyrite. 68,1 - 68,2 Quartz + carbonate vein conformable to foliation. 2% magnetite, 1% pyrite. 68,48 - 68,56 White quartz vein @ 90° to c.a. No sulphides noted. 68,83 - 68,96 Carbonate veining @ 45° to c.a. 5% magnetite , trace of pyrite. 69,14 - 69,24 Carbonate veining. % magnetite , 3% pyrite. 69,56 - 69,62 Folded quartz + carbonate vein. 5% pyrite , trace of magnetite. 69,70 - 69,82 Quartz vein @ 50° to c.a. 15% magnetite , 2% pyrite. 70,34 - 70,47 Quartz + carbonate veining @ 50° to c.a. 2% pyrite. 71,68 - 72,10 Phyllite with 5% pyrite lamellae. 73,64 - 77,20 Carbonate veinlets @ 50° to c.a. 2% pyrite. Fault @ 90° to c.a. with minor quartz veining. 75,5 - 75,86 60% quartz+carbonate+magnetite vein @ 60° to c.a. 10% magnetite, 2% pyrite. 76,26 -76,55 Quartz+carbonate+magnetite vein @ 70° to c.a. 20% magnetite, 2% pyrite.	629501	67,28	67,60	0,32		< 5				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-01

PAGE No : 3 **OF** 3

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
76,55	125,0	**A MIXTURE OF PHYLLITE AND BASALT** Numerous folded quartz + carbonate veinlets. Foliated @ 50° to c.a. Trace of pyrite adjacent to quartz + carbonate veinlets. 120 - 122,5 5% quartz+epidote lenses and veinlets @ 60° to c.a. No sulphides noted.										
125,0	150,0	**BASALT** Dark to medium green. Well to moderately well defined foliation @ 50° to c.a. Trace of pyrite as isolated cubes. 144,3 - 150 5% quartz+epidote veins. Trace of pyrite.										
	150	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-97-02 **LENGTH:** 276m
LOCATION : **CLAIM No :** 1194270
LONGITUDE : L0+70 W **LATITUDE:** 1+10 S
ELEVATION: **AZIMUTH:** 147 °
STARTED ON : October 30, 1997
COMPLETED ON: November 1, 1997

DEPTH	DIRECTION	DIP
COLLAR	147°	-55°
100m		-53°
192m		-48°

HOLE No : LA-97-02
PAGE No 1 **OF** 6

CORE STORED AT : Beardmore OGS core library
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
0,00	3,0	**OVERBURDEN**										
3	32,9	**BASALT** Light greenish grey in color. Rock is "bleached". 3 - 11,7 Numerous quartz + carbonate veinlets @ all angles to c.a. Trace of pyrite. 11,7 - 18 Foliated @ 70° to c.a. Minor conformable quartz + carbonate veining. Trace of pyrite and pyrrhotite. 18 - 21,5 Alternating massive and foliated basalt. 21,5 - 32,9 Numerous carbonate veinlets @ all angles to c.a., but predominantly @ high angle to c.a. Rock exhibits incipient carbonatization. Minor quartz veining. Trace of pyrite and pyrrhotite adjacent to quartz + carbonate veinlets.										
32,9	40,5	**BASALT** Dolomitized? Rock is foliated dark grey and light buff grey. Foliated @ 40° to c.a. Numerous pyrrhotite bearing lamellae. Overall trace of pyrrhotite. 33 - 33,17 2 cm. wide white quartz vein @ 30° to c.a. 1% arsenopyrite within wall rock.	629502	33	33,17	0,17		20				

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-02

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
40,5	109,5	**BASALT** A mixture of foliated , pillowed and massive basalts. 40,5 - 44 Grey green in color. Foliated @ 50° to c.a. 3% conformable carbonate veinlets with associated pyrrhotite and pyrite. Overall 1% pyrite and trace of pyrrhotite. 44,0 - 54 Massive. Minor quartz+ carbonate veining. Trace of pyrite and pyrrhotite within veinlets. 54 - 55,6 Foliated @ 55° to c.a. Dark green mottled white. Micaceous and carbonate rich. White carbonate grains are aligned giving the rock a foliated appearance. 55,6 - 63,6 Massive. Numerous quartz + carbonate veinlets @ 50° to c.a. Some veinlets are folded. Overall 5% veinlets. Trace of pyrrhotite and pyrite. 63,6 - 70,8 Massive. Minor weakly foliated horizons @ 45° to c.a. Trace of pyrrhotite and pyrite. 70,8 - 75 Light grey green sericite rich fragmented horizons. Trace of pyrrhotite. 71,4 Fault gauge over 2 cm. 75 - 80,6 Weakly foliated @ 50° to c.a. 80,6 - 84 Same as 54 - 55,6 m. 84 - 91,9 Dark green grey. Gradual contact with unit above. Weakly foliated @ 50° to c.a.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-02

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		89,3 - 91,9 5% quartz + carbonate veinlets @ 45° to c.a.										
		89,67-90 2% arsenopyrite adjacent to quartz + carbonate veinlet.	629503	89.67	90	0.33		62				
		91,9 - 95,6 Light greyish green. Weakly foliated @ 30° to c.a.										
		95,6 - 98,2 Medium grained. Light greyish green mottled medium green. Massive. Gradual contacts.										
		98,2 - 109,5 Pillowed. Carbonate ± pyrrhotite at pillow margins.										
109,5	**109,73**	**BLACK SHALE OR SILICEOUS BLACK CHLORITE.** Laminated black and white. Quartz + carbonate veining @ 70° to c.a. make up 40% of the rock. 15% pyrite as lamellae.	629504	109,5	109,73	0,23		12				
109,73	**123,9**	**BASALT** A mixture of medium and fine grained basalt. Weakly foliated @ 60° to c.a.										
		120,2 - 120,35 Black chlorite rich horizon. Rock is hard. 3% pyrite as lamellae.										
		121,5 - 121,8 Black chlorite rich horizon. 10% white quartz + carbonate veinlets @ 60° to c.a. 3% pyrite as lamellae.										
123,9	**124,8**	**BLACK SHALE OR SILICEOUS BLACK CHLORITE.** Laminated black and white. Quartz + carbonate veining @ 60° to c.a. make up 10% of the rock. 20% pyrite as bands and as spheroids.	629505	123,9	124,8	0,90		26				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-02

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	ANALYSES Au ppb	ANALYSES Ag ppm	ANALYSES Cu ppm	ANALYSES Zn ppm	ANALYSES As ppm
124,8	**143,33**	**BASALT** Mostly fine grained. Foliated @ 25° to c.a. @ 137,2 m. Minor quartz + carbonate veinlets. Trace of pyrite.										
143,33	**143,95**	**DEFORMATION ZONE** Rock is banded dark grey and black. Unit exhibits plastic deformation. 20% pyrite as wisps, lamellae and bands. 143,75 - 143,95 Quartz + carbonate vein @ 55° to c.a.	629506	143,33	143,95	0,62		13				
143,95	**158,1**	**BASALT** Medium to dark grey with occasional black lamellae. Very fine grained. A deformed basalt? Trace of pyrrhotite and chalcopyrite within black lamellae.										
158,1	**201,4**	**INTERMEDIATE TUFF** Laminated light greyish green and dark greyish green with orange laminated horizons. Laminated @ 55° to c.a. Trace of pyrite and chalcopyrite. 175,2 - 177,9 Massive basalt. 179,3 - 179,7 5% quartz + carbonate veinlets. 6% pyrite as lamellae and wisps @ 60° to c.a. 180,1 - 180,7 15% pyrite as lamellae and wisps.	629507	180,1	180,66	0,56		80				
201,4	**212,8**	**BASALT** 201,4 - 202,4 Dark grey to black. Very fine grained. Massive. 202,4 - 203,15 Foliated @ 70° to c.a. Trace of pyrite.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-02

PAGE No : 5 **OF** 6

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		203,15 - 203,75 Quartz vein and lens. Vein is folded along c.a. 75% quartz , 23% chloritic fragments. 2% pyrite.	629508	203.15	204.05	0.90		13				
		203,75 - 204,05 15% pyrite as bands within a dark siliceous rock.										
		204,05 - 212,18 Foliated @ 50° to c.a. Trace of pyrite and chalcopyrite.										
212,18	**219,73**	**B.I.F.** Rock is banded white, black and dark grey. Unit bears pyrrhotite and pyrite with minor arsenopyrite and chalcopyrite. In general the iron formation is very dark in color.										
		212,18 - 213,83 Chert rich. 85% light grey to white sugary chert. 10% mafic bands. Contact @ 70° to c.a. Rock is fractured perpendicular to banding. 5% pyrite occurring within mafic bands.	629509	212,8	213,83	1,03		< 5				
		213,38 - 214,46 Chert 50%, mafic bands 50%. Banding @ 85° to c.a. py>po>> cpy. 5% sulphides.	629510	213,83	214,46	0,63		< 5				
		214,46 - 215,68 Medium to dark grey chert 20%. 65% mafic bands. 15% pyrite as bands and as crosscutting veinlets.	629511	214,46	215,68	1,22		**558**				
		214,46 - 214,62 Semi massive arsenopyrite and pyrite band @ 30° to c.a. Trace of chalcopyrite as crosscutting lamellae.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-02

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		215,68 - 216,98 Very mafic horizon. Dark green to black. Minor dark grey chert bands. 20% pyrrhotite as bands, 3% pyrite as medium to fine grained cubes. Trace of chalcopyrite and arsenopyrite.	629512	215,68	216,98	1,30		14				
		216,98 - 219,73 50% medium to light grey chert. 50% mafic bands.										
		216,98 - 218,32 10% pyrrhotite, trace of pyrite and chalcopyrite.	629513	216,98	218,32	1,34		22				
		218,32 - 218,85 25 % pyrrhotite occurring as conformable bands and as crosscutting veins. 3% chalcopyrite.	629514	218,32	218,85	0,53		22				
		218,85 - 219,73 80% chert. 5% pyrrhotite , 2% pyrite and 1% chalcopyrite.	629515	218,85	219,73	0,88		< 5				
		Contact @ 219,73 sub parallel to c.a.										
219,73	**243,4**	**BASALT** Rock is altered. Greenish grey to medium grey with numerous light greenish grey to white and orange altered veins, lenses and horizons. Alteration starts gradually with few altered and intensifies . From 230,5 to 243,4 m 85% of the rock is altered. Some highly magnetic bands within altered zones.										
243,4	**276**	**PYROXENITE** Black mottled dark green to grey. Chilled margin at contact@ 50° to c.a. Medium grained. Massive. Highly magnetic.										
	276	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-97-03 **LENGTH:** 123m
LOCATION : **CLAIM No :** 1194270
LONGITUDE : L1+30W **LATITUDE:** 2+50 S
ELEVATION: **AZIMUTH:** 162 °
STARTED ON : November 1, 1997
COMPLETED ON: November 2, 1997

DEPTH	DIRECTION	DIP
COLLAR	162°	-45°
123m		-37°

HOLE No : LA-97-03
PAGE No 1 **OF** 4

CORE STORED AT : Beardmore OGS core library
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.

LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
0,00	3,0	**OVERBURDEN**										
3	7,95	**BASALT** Light grey green mottled grey green. Medium grained. Massive 5 - 6 Cavity										
7,95	9,23	**MINERALIZED ZONE** Rock is a pinkish buff in color. Sericite and carbonate rich. Strong foliation @ 65° to c.a. 30% pyrite as disseminated grains and as bands.	629516	8,03	9,23	1,20		< 5				
9,23	80,30	**PHYLLITE, CHLORITIC** Medium to dark green. Numerous conformable carbonate veinlets @ 60° to c.a. Some horizons mottled white with carbonate lenses. Trace of pyrite as occasional cube.										
80,30	81,0	**B.I.F.** Highly siliceous. 80% chert. Chlorite+ magnetite 18%. Unit is folded. 2% pyrite + pyrrhotite.	629517	80,30	81	0,70		< 5				
81,0	81,63	**CHLORITIC ROCK WITH WHITE QUARTZ** 60% quartz as masses and lenses. No sulphides noted.										

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-03

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
81,63	**83,06**	**B.I.F.** Siliceous and magnetite rich. Chert is very light grey and makes up 75% of the rock. Minor quartz + carbonate veining. Magnetite bands are folded and make up 20% of the rock. 5% pyrrhotite and trace of pyrite along magnetite bands and as fracture in fill within chert bands. Contact @ 83,06 m @ 60° to c.a.	629517 629518	80,30 81,63	81,0 83,06	0,70 1,43		5 28				
83,06	**86,20**	**PHYLLITE , CHLORITIC** Mostly medium greyish green with some grey horizons. Foliated @ 70° to c.a.										
86,20	**89,26**	**B.I.F.** 86,20 - 87,0 Siliceous. 75% chert , 23% magnetite. Banded @ 70° to c.a. 2% pyrrhotite mostly as fracture in fill. Trace of pyrite and arsenopyrite. 87,0 - 87,63 Grunerite rich. Banded buff green and medium grey. 87,0 - 87,35 2% pyrrhotite , Trace of arsenopyrite and pyrite. 87,35 - 87,63 Minor quartz veins perpendicular to c.a. 2% arsenopyrite , 3% pyrite as fracture in fill and 2% pyrrhotite as conformable lamellae. 87,63 - 88,33 Quartz veined . 70% quartz veins @ 50° to c.a. 10% pyrite as masses , 5% arsenopyrite as fine to medium grains, 2% pyrrhotite. 88,33 - 88,78 Grunerite rich. 20% chert, 5% pyrrhotite, 2% pyrite, 2% arsenopyrite.	629519 629520	86,20 87,35	87,35 88,33	1,15 0,98		13 **208**				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-03

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		88,78 - 89,26 Chert rich. 80% chert. 20% grunerite. Trace of pyrrhotite.	629521	88.33	89,26	0,93		91				
89,26	**98,65**	**BASALT** Dark grey. Numerous white quartz + carbonate veinlets @ all angles to c.a. Weakly foliated @ 60° to c.a. No sulphides noted.										
98,65	**101,43**	**B.I.F.** Grunerite rich. Banded dark grey and light buff green. 20% chert , 15% white quartz veins and 65% grunerite Quartz veining @ 70° to c.a. 2 to 3% pyrrhotite and trace of pyrite and chalcopyrite	629522 629523	98,65 100,08	100,08 101,43	1,43 1,35		< 5 < 5				
101,43	**108,1**	**BASALT** Dark grey. Weakly foliated @ 70° to c.a. 103,23 - 103,6 Chert band. Contacts @ 70° to c.a. 5% magnetite. Wall rock is chloritic at both contacts.										
108,1	**113,0**	**PHYLLITE , CHLORITIC** Very dark green to medium grey green. Numerous quartz + carbonate veinlets. 108,1 - 108,42 20% irregular shaped quartz + carbonate veinlets. Trace of pyrrhotite. 109,6 - 109,8 20% quartz + carbonate masses. 1% pyrrhotite. 111,1 - 111,6 5% quartz + carbonate veinlets @ 70° to c.a. No sulphides noted.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-03

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		111,74 - 111,82 Siliceous and carbonate rich band @ 70° to c.a. Unit contains quartz fragments. Rock is moderately magnetic.										
		111,87 - 112,0 Siliceous zone. Contacts @ 65° to c.a. 15% pyrrhotite, 5% pyrite and 5% arsenopyrite.	629524	111,87	112,0	0,13		13				
		112,47 - 113,0 Siliceous zone. Banded black and dark grey. Siliceous bands make up 60% of the rock Banding @ 60° to c.a. 2% pyrrhotite as disseminated grains within siliceous bands.	629525	112,47	113,0	0,53		< 5				
113,0	**123,0**	**BASALT** Grey. Massive. Minor pyrrhotite rich quartz + carbonate bands < 1 cm wide @ 70: to c.a.										
	123	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-97-04 **LENGTH:** 123m
LOCATION : **CLAIM No :** 1148395
LONGITUDE : L3+75E **LATITUDE:** 1+50 S
ELEVATION: **AZIMUTH:** 162 °
STARTED ON : November 2, 1997
COMPLETED ON: November 3, 1997

DEPTH	DIRECTION	DIP
COLLAR	162°	-45°
100m		-44°

HOLE No : LA-97-04
PAGE No 1 **OF** 3

CORE STORED AT : Beardmore OGS core library
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
0,00	5,4	**OVERBURDEN**										
5,4	14,7	**PHYLLITE** Light greenish grey with occasional dark grey bands. Foliated @ 65° to c.a. 3% conformable pyrrhotite bearing dark grey lamellae. 12,85 - 13,1 Siliceous and chloritic horizon. Foliated @ 70° to c.a. Trace of pyrite and pyrrhotite. 13,46 - 13,62 5% pyrrhotite within a fractured zone.										
14,7	17,1	**BASALT** Medium greyish green. Medium grained. Foliated @ 55° to c.a.										
17,1	33,6	**BASALT , PILLOWED** Light grey green. Massive. Pyrrhotite within pillow margins. 23,55 - 24,10 Quartz in filled fractures @ 20° to c.a. Chloritic at boundaries of quartz. Trace of carbonate.										
33,6	47,22	**BASALT** Medium grained. Foliated @ 60° to c.a. Minor pyrrhotite bearing pillow margins. Minor very light grey carbonatized horizons. 43,5 - 44,6 Foliated @ 65° to c.a.										

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-04

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
47,22	47,70	**BLACK SHALE OR SILICEOUS BLACK CHLORITE** Gradually the rock turns dark grey to black. Rock is hard. Quartz + carbonate mass within unit. 15% pyrite as bands and wisps.	629526	47,22	47,70	0,48		< 5				
47,7	58,3	**BASALT** Medium grey green. Alternating fine and medium grained.										
58,3	58,85	**BLACK SHALE OR SILICEOUS BLACK CHLORITE** 25% pyrite as bands and wisps.	629527	58,3	58,85	0,55		10				
58,85	62,41	**BASALT** Medium grey with grey green horizons. Numerous carbonate in filled fractures. Trace of pyrrhotite.										
62,41	63,0	**BLACK SHALE OR SILICEOUS BLACK CHLORITE** 5% pyrrhotite lamellae @ 65° to c.a.										
63,0	93,5	**BASALT** Medium grey to 75,2 m then dark grey. Massive. Trace of pyrite and chalcopyrite. 66,35 - 66,42 White quartz vein. Core broken in small pieces. Trace of pyrite and chalcopyrite. 75,2 - 76,6 Shear zone. Strong foliation @ 60° to c.a. 2% pyrite 81,6 - 82,1 Shear zone. Strong foliation @ 60° to c.a. Rock is "bleached". No sulphides noted.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-04

PAGE No : 3 **OF** 3

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		90,0 - 91,3 Shear zone. Strong foliation @ 60 to 40° to c.a. Trace of pyrite.										
93,5	106,8	**SHEAR ZONE** Rock is medium green grey. Banded to foliated @ 50° to c.a. 1% pyrite as conformable wisps and within chloritic bands. 94,63 - 94,87 Black shale or siliceous chlorite. 25% quartz + carbonate masses. 35% pyrite.	629528	94,36	94,87	0,51		18				
		106,17 - 106,80 Pyrite in filled fractures parallel to c.a.	629529	106,17	106,8	0,57		< 5				
106,8	110,2	**BASALT** Dark grey. Massive. Trace of pyrrhotite.										
110,2	123	**SHEAR ZONE** Rock is medium to light green. Minor quartz + carbonate masses and veinlets. Foliated @ 60 to 40° to c.a.										
	123	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-97-05 LENGTH: 129m
LOCATION : CLAIM No : 1068871
LONGITUDE : L6+40E LATITUDE: 5+50 S
ELEVATION: AZIMUTH: 162 °
STARTED ON : November 3, 1997
COMPLETED ON: November 4, 1997

DEPTH	DIRECTION	DIP
COLLAR	162°	-45°
100m		-43°

HOLE No : LA-97-05
PAGE No 1 OF 4

CORE STORED AT : Beardmore OGS core library
CORE DIAMETRE: B.Q.
DRILLED BY: Chibougamau Diamond Drilling Ltd.

LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION
0,00	2,6	**OVERBURDEN**
2,6	15,0	**PHYLLITE** Dark grey green banded white. Certain horizons with numerous carbonate veinlets @ 55° to c.a. conformable with foliation. Some quartz + carbonate veining exhibiting drag folding. Trace of pyrite within veinlets.
15,0	18,1	**GRAYWACKE** Medium grey. Massive. Gradational contacts. No sulphides noted.
18,1	54,74	**PHYLLITE** Medium to dark green. 18,1 - 39,8 5% quartz + carbonate veinlets @ 55 to 70° to c.a. Overall trace of pyrite. 27,35 - 27,6 White quartz + carbonate vein @ 40° to c.a. Very sharp contacts. No sulphides noted. 39,8 - 44,2 Medium pistachio green to grey green mottled white. Foliated @ 55° to c.a. 44,2 - 54,74 Medium to dark green. Foliated @ 65° to c.a.

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SAMPLING NUMBER	FROM (m)	TO (m)	LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-05

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
54,74	61,14	**B.I.F.** Rock is very siliceous with very 85% dark chert bands. 54,74 - 56,09 Chert 70%. Mafic bands 15% Banded at 70° to c.a. 10% magnetite, 5% pyrrhotite and 2% pyrite.	629530	54,74	56,09	1,35		14				
		56,09 - 56,25 Quartz vein. White Sharp contacts @ 75° to c.a. 20% included wall rock fragments. 3% pyrite as fracture in fill.	629531	56,09	57,40	1,31		25				
		56,25 - 58,30 Chert 85%. Magnetite 10%. 5% pyrrhotite + pyrite. Trace of chalcopyrite.	629532	57,40	58,30	0,90		16				
		58,30 - 59,08 Chert 25%. Mafic bands 65%. 3% pyrite as crosscutting veinlets. 5% pyrrhotite as conformable lamellae.	629533	58,3	59,08	0,78		18				
		59,08 - 59,84 Chert 60% Mafic bands 35% 5% magnetite. Trace of pyrrhotite.	629534	59,08	59,84	0,76		27				
		59,84 - 60,6 Chert 20%. Mafic bands 75%. 5% pyrite as conformable lamellae and as crosscutting veinlets. Trace of magnetite and pyrrhotite.	629535	59,84	60,60	0,76		**247**				
		60,6 - 61,14 Quartz vein. White. Ground core at contacts. 30% included wall rocks. 3% pyrite.	629536	60,6	61,14	0,54		33				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
61,14	**80,0**	**PHYLLITE**										
		Medium greyish green.										
		Some medium grained horizons.										
		Foliated @ 65° to c.a.										
		61,14 - 61,6 Orange carbonate lenses and lamellae.										
80,0	**82,0**	**B.I.F.**										
		Highly siliceous.	629537	80,0	81,0	1,00		< 5				
		75% dark grey chert bands.	629538	81,0	82,0	1,00		< 5				
		10% mafic bands.										
		Banding @ 65 to 80° to c.a.										
		10% magnetite, 1 to 2% pyrite and trace of pyrrhotite.										
82,0	**90,0**	**PHYLLITE**										
		Same as 61,14 to 80,0m.										
		Orange carbonates from 82,0 to 82,4 m.										
90,0	**98,0**	**GRAYWACKE**										
		Medium grey.										
		Fine grained.										
		Weakly foliated @ 70° to c.a.										
		Numerous white alteration bands conformable to foliation.										
98,0	**99,54**	**B.I.F.**										
		Highly siliceous.										
		75% dark chert bands.										
		23% mafic bands.										
		2% magnetite.										
		98,0 - 98,75 5% pyrite and trace of magnetite.	629539	98,0	98,75	0,75		< 5				
		98,75 - 99,23 5% magnetite and trace of pyrite.	629540	98,75	99,23	0,48		5				
		99,23 - 99,54 20% pyrite and trace of magnetite.	629541	99,23	99,54	0,31		**113**				
			629542	99,54	99,86	0,32		**228**				
99,54	**99,86**	**QUARTZ VEIN**										
		White.										
		2% chlorite in filled fractures.										
		Contacts @ 55° to c.a.										
		Trace of pyrite.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-05

PAGE No : 4 **OF** 4

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
99,86	129,0	**PHYLLITE** Medium grey green with light grey green horizons. Foliated @ 70° to c.a.										
		109,28 - 109,6 Quartz + carbonate vein @ 50° to c.a. 2% pyrite , 1% galena and trace of chalcopyrite.	629543	109,28	109,6	0,32		< 5				
		112,7 - 113,06 Quartz + carbonate vein @ 60° to c.a. Medium grey. Trace of pyrite.	629544	112,7	113,06	0,36		< 5				
		116,07 - 116,18 Quartz + carbonate vein @ 75° to c.a. 15% pyrite.										
		Gradually rock takes on the appearance of a tuff with light grey to buff, grey green and bands with orange carbonate. Rock has numerous leached carbonate voids aligned along the foliation.										
	129	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-97-06 **LENGTH:** 141m
LOCATION : **CLAIM No :** 1068873
LONGITUDE : L3+00E **LATITUDE:** 9+50 S
ELEVATION: **AZIMUTH:** 162 °
STARTED ON : November 4, 1997
COMPLETED ON: November 5, 1997

DEPTH	DIRECTION	DIP
COLLAR	162°	-45°
100m		-44°

HOLE No : LA-97-06
PAGE No 1 **OF** 3

CORE STORED AT : Beardmore OGS core library
CORE DIAMETRE: B Q
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
0,00	2,4	**OVERBURDEN**										
2,4	141,0	**BASALT**										
		2,4 - 33 Dark grey. Massive. Trace of pyrrhotite and pyrite as occasional thin massive band @ 60° to c.a. and as isolated grains.										
		6,3 - 11,0 Carbonate alteration. Light grey green. Trace of pyrite.										
		16,7 - 16,84 Semi massive sulphide band @ 75° to c.a. 25% pyrrhotite, 2% arsenopyrite and trace of pyrite.	629545	16,7	16,84	0,14		12				
		20,72 - 20,80 2 cm. wide quartz vein @ 15° to c.a. 2% pyrrhotite and trace of chalcopyrite.										
		26,04 - 26,11 Quartz vein @ 45° to c.a. Trace of pyrite.										
		27,07 - 27,92 3% pyrrhotite and trace of chalcopyrite.										
		33,0 - 48,0 Medium grey with numerous grey carbonate bands. Gradual contact with unit above. Rock exhibits carbonate alteration. Foliated @ 60° to c.a. Overall < 1% pyrrhotite and trace of pyrite as occasional conformable bands.										
		34,54 - 34,88 5% pyrrhotite and 2% pyrite.	629546	34,54	34,88	0,34		28				

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-06

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		48,0 - 70,6 Grey green in color. Gradual contact with unit above. Rock exhibits foliated and highly deformed horizons. Numerous folded and dismembered white opaque quartz veins and carbonate veins. Numerous massive pyrrhotite bands. Overall 1% pyrrhotite and trace of pyrite.										
		51,2 - 51,7 10% pyrrhotite and 1% pyrite. Sulphides occur within a carbonate rich band @ 40° to c.a.	629547	51,2	51,7	0,50		27				
		59,45 - 59,8 30% quartz + carbonate veining. 5% pyrrhotite and trace of chalcopyrite.	629548	59,45	59,80	0,35		13				
		61,24 - 61,53 10% quartz + carbonate veins @ 50° to c.a. 10% pyrrhotite and trace of chalcopyrite.										
		62,1 - 65,58 3% pyrrhotite as occasional massive band.										
		65,58 - 65,75 15% pyrrhotite and 3% pyrite as massive bands.	629549	65,58	65,75	0,17		17				
		70,6 - 74,57 Frequency of conformable carbonate bands gradually increases.										
		70,6 - 70,9 10% pyrite and 5% pyrrhotite as masses.	629550	70,6	70,9	0,30		21				
		72,05 - 73,3 25% pyrite and 5% pyrrhotite as sulphide rich bands up to 15 cm. wide. Banding @ 90° to c.a.	629551	72,05	73,30	1,25		18				
		74,34 - 74,57 15% pyrrhotite and trace of chalcopyrite.	629552	74,34	74,57	0,23		12				
		74,57 - 141,0 Pillowed basalt. Medium grey green. Contact is very gradual with decrease in foliation from strong to weak to 121m.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-06

PAGE No : 3 **OF** 3

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		76,2 - 76,6 Siliceous black chlorite rich horizon. 10% carbonate bands. Banding @ 70° to c.a. 20% pyrrhotite and trace of pyrite.										
		87,26 - 88,78 Siliceous black chlorite rich horizon. Banding @ 70° to c.a. 10 cm. wide quartz vein. 30% pyrrhotite and 5% pyrite.	629553	87,26	87,87	0,61		40				
		121 - 137 Medium grained basalt.										
	141,0	**E.O.H.**										

DIAMOND DRILL LOG

EXPLORATIONS MINIÈRES DU NORD LTÉE

PROPERTY NAME: LAFONTAINE
HOLE No: LA-97-07 **LENGTH:** 171m
LOCATION : **CLAIM No :** 1194266
LONGITUDE : L8+40 W **LATITUDE:** 1+85S
ELEVATION: **AZIMUTH:** 342°
STARTED ON : November 6, 1997
COMPLETED ON: November 7, 1997

DEPTH	DIRECTION	DIP
COLLAR	342°	-45°
100m		-42°

HOLE No : LA-97-07

CORE STORED AT : Beardmore OGS core library
CORE DIAMETRE: B Q
DRILLED BY: Chibougamau Diamond Drilling Ltd.
LOGGED BY: Ted Goettel

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
0,00	3,0	**OVERBURDEN**										
3	6,0	**BASALT** Medium grey green. Medium grained. Trace of pyrite.										
6,0	19,7	**CARBONATIZED ZONE** Rock is medium to light grey. Massive. Gradual contact from 5,5 to 6 m. Overall trace of pyrite and arsenopyrite. 7,0 - 7,1 0,5 cm wide quartz vein @ 90° to c.a. Minor muscovite at contact. Trace of very fine arsenopyrite and pyrite.										
		7,93 - 9,0 Three < 1 cm wide quartz veinlets @ 60° to c.a. Minor muscovite at contact. Trace of very fine arsenopyrite and pyrite within wall rock.	629554	7,93	9,0	1,07		10				
		11,8 - 11,9 Quartz vein @ 90° to c.a. Minor muscovite at contact. Trace of arsenopyrite within vein.	629555	11,8	11,9	0,10		36				
		14,75 - 14,81 1 cm wide quartz vein @ 75° to c.a. Minor muscovite at contact. Trace of arsenopyrite.										
		18,74 - 18,9 3 cm wide quartz vein @ 60° to c.a. Minor muscovite at contact. 1% arsenopyrite within wall rock.	629556	18,74	18,90	0,16		35				

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DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		18,9 - 19,7 Carbonate in filled fracture zone.										
19,7	25,7	**BASALT, FOLIATED** Medium grey green. Foliated in central part by carbonate lenses. Trace of pyrite.										
25,7	41,0	**CARBONATIZED ZONE** Medium grey with certain horizons mottled grey green. Moderately well defined foliation @ 40° to c.a. 25,7 - 25,85 Sheared @ 40° to c.a. 26,6 Sheared @ 40° to c.a. 28,44 - 28,5 Quartz vein @ 90° to c.a. Trace of muscovite and arsenopyrite mainly at wall rock contacts. 28,9 0,4 cm wide quartz vein. Trace of arsenopyrite. 30,58 - 31,20 3 quartz veins @ 90° to c.a. and one vein sub parallel to c.a. Trace of muscovite and arsenopyrite. 34,64 - 34,86 Quartz veinlet @ 90° to c.a. Trace of arsenopyrite. 37,18 - 37,27 Quartz veinlet @ 75° to c.a. Trace of arsenopyrite. 40,43 - 40,55 3 cm wide quartz vein. Trace of arsenopyrite.	629557 629558	30,58 34,64	31,20 34,86	0,62 0,22		6 14				
41,0	43,1	**PHYLLITE** Medium grey green. Sharp contact @ 41 m @ 70° to c.a. Foliated @ 30° to c.a.										
43,1	84,0	**CARBONATIZED ZONE** Medium to light grey. Rock is foliated and mottled light green grey. 49,64 - 50,15 0,5 cm quartz vein @ 70° and 3 mm wide vein parallel to c.a. 2% arsenopyrite.	629559	49,64	50,15	0,41		**291**				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-07

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		52,79 - 52,89 2 mm wide dark grey quartz vein. Trace of arsenopyrite within wall rock.										
		53,0 - 63,0 Foliated with numerous carbonate lenses. 52,79 - 52,89 5% pyrite as conformable lenses and lamellae.	629560	55,3	56,5	0,2		6				
		64,8 - 66 Fractured zone with carbonate in fill. 1% arsenopyrite, 2% pyrrhotite and 1% pyrite.	629561	64,8	66	0,2		39				
		66,0 - 67,8 Trace to 1% arsenopyrite.	629562	66	67,34	0,34		55				
		67,54 - 67,59 Quartz vein @ 65° to c.a. 10% arsenopyrite, and 30% sphalerite.	629563	67,34	67,80	0,54		**103**				
		69,7 - 69,93 1 cm wide quartz vein @ 65° to c.a. Trace of arsenopyrite.										
		70,9 - 71,6 Foliated siliceous zone. Medium to light blue grey quartz. Foliated @ 55° to c.a. Trace of pyrite and pyrrhotite.										
		75,62 - 75,72 1,5 cm wide quartz vein @ 75° to c.a 25% sphalerite within vein and trace of arsenopyrite within wall rock.										
		78,56 - 78,74 3 cm quartz vein @ 80° to c.a. 1% arsenopyrite.	629564	78,56	78,74	0,18		39				
		80,7 - 81,7 7 cm quartz vein @ 90° to c.a. 1% arsenopyrite within wall rock, trace of pyrite.	629565	80,7	81,7	1,00		80				
		82 - 82,49 5% white quartz as masses and lenses. 5% arsenopyrite as fine to medium laths and masses.	629566	82	82,49	0,49		**1,64g/t**				
84,0	**108,4**	**BASALT** Fine to medium grained. 84 - 95,25 Weakly foliated @ 55° to c.a. 10% quartz + carbonate + pyrite veins conformable to foliation.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-07

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		1% pyrite mostly within veins and as occasional isolated grains.										
		91,43 - 91,79 Carbonatized. Rock is a green tan color. 3% pyrite as medium grains aligned along foliation @ 55° to c.a.	629569	91,43	91,79	0,36		9				
		92,6 - 93,66 25% quartz + carbonate veins and lenses. 5% pyrite.	629567	92,6	93,66	1,06		6				
		95,25 - 96 Quartz + carbonate vein @ 50° to c.a. Medium to light grey with 30% tan to dark grey colored fragments. Trace of pyrite within vein, 10% pyrite at contact @ 95,25 m.	629568	95,15	96,00	0,85		7				
		96 - 100,2 Sheared sericitic basalt. Brownish grey in color. 10% quartz + carbonate veins @ 55° to c.a. Trace of pyrite within or adjacent to veins.										
		100,2 - 108,4 Sericitic basalt. Medium grey with a tan overtone. Poorly defined foliation @ 45° to c.a.										
		101,52 - 101,7 3 cm quartz vein @ 80° to c.a. Trace of arsenopyrite.	629570	101,52	101,7	0,18		**495**				
		102,42 - 102,74 5% dark grey quartz mass. 2% arsenopyrite.	629571	102,42	102,74	0,32		**327**				
		103,3 - 103,4 3 cm quartz vein @ 80° to c.a. Trace of arsenopyrite.										
		106,3 - 108,4 5% quartz + carbonate veining and masses. Veins are folded and broken up. Rock gradually turns chloritic. Foliated @ 45° to c.a. Overall 1% pyrite.	629572	106,3	106,72	0,42		< 5				

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-07

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
108,4	**113,7**	**CHLORITIC FRACTURED ZONE.** Rock is dark to medium green. Fractured with carbonate in fill. Numerous quartz + carbonate veined horizons at low angles to c.a. Veins consist of fractured quartz in a quartz + carbonate + chlorite + pyrite matrix. Overall 15% veining and 2% pyrite.										
		111,7 - 111,9 40% veining, 5% pyrite.	629573	111,7	111,9	0,2		8				
		112,68 - 113,7 20% veining, 7% pyrite.	629574	112,68	113,7	0,98		6				
113,7	**128,5**	**BASALT** Medium grey. Weakly foliated @ 60° to c.a. Minor medium grained horizons.										
		113,7 - 114,58 5% folded carbonate as stringers and as fracture in fill.										
		114,58 - 114,73 1 cm quartz vein @ 90° to c.a. Trace of arsenopyrite.	629575	114,58	114,73	0,15		**1,00g/t**				
		118,1 - 120,95 Strongly foliated @ 35 to 45° to c.a. Slightly chloritic . 25% veining as in unit @ 108,4 m, but less carbonate. Up to 3% pyrite within veins, but overall trace of pyrite.										
		125,46 - 125,66 White quartz vein. Sharp contacts @ 60° to c.a. Trace of pyrite within vein.	629576	125,46	125,66	0,20		< 5				
128,5	**134,6**	**ALTERATION ZONE** Rock is tan in color with a poorly defined foliation @ 45° to c.a. Siliceous shear from 128,5 to 128,7 m@ 55° to c.a. 10% pyrite as bands within shear. < 10 cm wide quartz + carbonate veinlets make up 2% of the rock.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-07

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		Overall trace of pyrite.										
		Rock gradually turns grey from 132 to 134,6 m										
		133,75 1 cm wide lens of massive arsenopyrite within a quartz lens @ 80° to c.a.	629577	133,75	134,02	0,27		39				
		113,8 - 134,02 White quartz vein @ 90° to c.a.										
		Trace of pyrite along fractures.										
134,6	**140,5**	**SAME AS UNIT @ 118,1M**										
		134,6 - 138,3 65% quartz + carbonate veins.										
		Veins are highly fragmented.										
		Minor barren cross cutting quartz veinlets @ 30° to c.a.										
		Trace of pyrite within fragmented veins.										
		138,3 - 140,5 Rock gradually starts to exhibit well defined foliation @ 40° to c.a.										
		Rock gradually turns from a grey green color to a tan color.										
140,5	**143,15**	**SHEAR ZONE**										
		Rock is banded tan and grey.										
		Highly foliated and banded @30 to 45° to c.a.										
		Quartz + carbonate bands and lenses make up 30% of the rock.										
		Overall trace of pyrite.										
		140,5 - 141 5% pyrite as fine disseminated cubes.	629578	140,5	141	0,50		19				
143,15	**144,4**	**BLACK CHLORITE AND SERICITE ZONE**	629579	143,15	144,4	1,25		84				
		Rock is more or less banded black and tan.										
		Minor quartz + carbonate veins.										
		Unit is highly deformed.										
		15% pyrite as bands and lenses.										
144,4	**148**	**SILICEOUS SHEAR ZONE**	629580	144,4	145,45	1,05		**139**				
		Rock is laminated dark grey, light tan and white.	629581	145,45	146,06	0,61		35				
		50% dark grey siliceous bands, 5% carbonate bands and 25% sericite bands.										
		Unit exhibits folding with a fold nose @ 146,5 m.										
		20% pyrite as lenses and bands.										

DIAMOND DRILL LOG EXPLORATIONS MINIÈRES DU NORD LTÉE

HOLE No : LA-97-07

LENGTH FROM (m)	LENGTH TO (m)	DESCRIPTION	SAMPLING NUMBER	SAMPLING FROM (m)	SAMPLING TO (m)	SAMPLING LENGTH (m)	ANALYSES Sulfur. %	Au ppb	Ag ppm	Cu ppm	Zn ppm	As ppm
		146,06 - 146,23 Quartz + carbonate vein @ 50° to c.a.	629582	146,06	146,23	0,17		27				
		Very sharp contacts.	629583	146,23	147,0	0,77		41				
		15% pyrite as masses within vein.	629584	147	148	1		< 5				
148	171	**CHLORITIC PHYLLITE**										
		Medium to dark green.										
		Numerous quartz + carbonate veinlets and lenses @ 45° to c.a.										
		Rock is fractured at all angles to c.a. with carbonate in fill.										
		Trace of pyrite.										
		149,73 - 150 Quartz vein.										
		Sharp contacts @ 50° to c.a.										
		White to light grey.										
		2% sphalerite.										
		Trace of pyrite.										
		154,7 - 159,8 Rock is medium grey green mottled dark grey and white.										
		3% white quartz veinlets.										
		Foliated @ 60° to c.a.										
		159,8 - 171 Medium to dark green.										
		5% conformable carbonate bands.										
		Foliated @ 60° to c.a.										
		160 - 161 80% quartz + carbonate										
		Trace of pyrite.										
		161,82-162,25 Siliceous zone.	629585	161,82	162,25	0,43		29				
		3% pyrrhotite and 2% pyrite.										
		170,4 - 170,7 Fractures sub parallel to c.a. with pyrite in fill.										
		Overall 2% pyrite.										
	171	**E.O.H.**										

Ted Goetz

ANNEX 2

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CERTIFICAT D'ANALYSE

DATE DE L'IMPRESSION: 12-JUL-96

RAPPORT: C96-62172.0 (COMPLET) PROJET: LAFONTAINE PAGE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB	
571653		43885	"F" SHOWING
571654		114	"F" SHOWING
571655		22	L 11E 3+00 S
571656		8	11
571657		84	RENTZ SHOWING
571658		3840	RENTZ SHOWING
571659		40	3+60E 9+50S

~~100 MÈTRES À L'EST DE LA ZONE CENTRALE~~

~~DÉCAPAGE EN PROGRESSION~~

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAFONTAINE

RAPPORT: C96-62173.0 (COMPLET) DATE DE L'IMPRESSION: 7-AUG-96 PAGE 1A

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Ni PPM	Co PPM	Cd PPM	Bi PPM	As PPM	Sb PPM
571660	MASSIVE Po	6	<0.2	230	36	80	<1	61	6	2.6	29	154	47
571661	" "	8	<0.2	211	32	119	<1	48	36	2.4	20	35	36

→ L19W 65
→ X SHOWING

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAFONTAINE

RAPPORT: C96-62173.0 (COMPLET) DATE DE L'IMPRESSION: 7-AUG-96 PAGE 1B

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Fe PCT	Mn PPM	Te PPM	Ba PPM	Cr PPM	V PPM	Sn PPM	W PPM	La PPM	Al PCT	Mg PCT	Ca PCT
571660		>10.00	1785	12	6	30	17	43	<20	<1	0.01	0.10	1.29
571661		>10.00	2140	<10	5	30	29	32	<20	<1	0.23	0.19	4.33

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CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAFONTAINE

RAPPORT: C96-62173.0 (COMPLET) DATE DE L'IMPRESSION: 7-AUG-96 PAGE 1C

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Na PCT	K PCT	Sr PPM	Y PPM	Ga PPM	Li PPM	Nb PPM	Sc PPM	Ta PPM	Ti PCT	Zr PPM
571660		<0.01	<0.01	10	<1	83	2	<1	<5	<10	<0.01	6
571661		<0.01	0.01	35	4	<2	2	<1	<5	<10	<0.01	8

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAFONTAINE

RAPPORT: C96-63751.0 (COMPLET) DATE DE L'IMPRESSION: 2-OCT-96 PAGE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS Au30 PPB	
571684	2548	"F" SHOWING
571685	15	LSE 4+50S

A. Deschambault

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: AUCUN

RAPPORT: C96-63609.0 (COMPLET) DATE DE L'IMPRESSION: 24-SEP-96 PAGE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS Au30 PPB	
571662	36539	BUFFALOW BEARDMORE SHOWING
571663	1204	MAIN BIF
571664	1123	"
571665	38	L5W 0+50 S
571666	10	L4E 2+43 S
571667	315	MAIN BIF
571668	56	↓
571669	31	
571670	974	
571671	137	

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAFONTAINE

RAPPORT: C96-63910.0 (COMPLET) DATE DE L'IMPRESSION: 5-OCT-96 PAGE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571701		8
571702		60
571703		48
571704		<5
571705		201
571706		1874
571707		26
571708		<5
571709		17
571710		15
571711		<5
571712		15

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE.
PROJET: LAFONTAINE
RAPPORT: C96-63934.0 (COMPLET)
DATE DE L'IMPRESSION: 9-OCT-96
PAGE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571713		6
571714		1645
571715		414
571716		433
571717		301

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. — PROJET: LAF
RAPPORT: C96-63991.0 (COMPLET) — DATE DE L'IMPRESSION: 12-OCT-96 — PAGE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB	NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571718		156	571758		10
571719		42	571759		<5
571720		7	571760		1070
571721		33	571761		<5
571722		13	571762		<5
571723		9	571763		32
571724		10	571764		5
571725		<5	571765		<5
571726		<5	571766		<5
571727		<5	571767		<5
571728		81	571768		<5
571729		<5	571769		<5
571730		<5	571770		<5
571731		45	571771		<5
571732		7	571772		<5
571733		<5	571773		9
571734		<5	571774		184
571735		<5	571775		17
571736		<5	571776		<5
571737		<5	571777		<5
571738		<5	571778		<5
571739		<5	571779		103
571740		6	571780		<5
571741		8	571781		<5
571742		8	571782		<5
571743		7	571783		<5
571744		9	571784		<5
571745		10	571785		11
571746		19	571786		<5
571747		10	571787		5
571748		345	571788		<5
571749		9	571790		9
571750		7	571791		<5
571751		<5	571792		<5
571752		6	571793		<5
571753		<5	571795		15
571754		<5	571796		210
571755		<5	571798		185
571756		9	571799		<5
571757		<5	571800		<5

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CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAF
RAPPORT: C96-63991.0 (COMPLET) DATE DE L'IMPRESSION: 12-OCT-96 PAGE 2

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB	NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571801		600			
571802		6			
571803		20			
571804		7			
571805		<5			
571806		27			
571807		2575			
571808		207			

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CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAFONTAINE
RAPPORT: C96-63986.0 (COMPLET) DATE DE L'IMPRESSION: 11-OCT-96 PAGE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571789		14
571794		<5
571797		<5
571809		<5
571810		7
571811		<5
571812		<5
571813		11
571814		32
571815		11
571816		12
571817		14
571818		<5
571819		17
571822		435
571824		162

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAF
RAPPORT: C96-64003.0 (COMPLET) DATE DE L'IMPRESSION: 16-OCT-96 PAGE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB	NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571820		25	571862		40
571821		24	571863		841
571823		61	571864		3321
571825		8	571865		59
571826		6	571866		85
571827		<5	571867		304
571828		<5	571868		47
571829		<5	571869		65
571830		803	571870		27
571831		<5	571871		49
571832		705	571872		8
571833		14	571873		801
571834		101	571874		39
571835		24	571875		6
571836		428	571876		1055
571837		6	571877		574
571838		436	571878		141
571839		893	571879		135
571840		15	571880		77
571841		189	571881		362
571842		1644	571882		81
571843		31	571883		132
571844		24	571884		33
571845		19	571885		226
571846		3216	571886		96
571847		469	571887		52
571848		26	571888		762
571849		1330	571889		94
571850		105	571890		368
571851		15	571891		1260
571852		<5	571892		104
571853		55	571893		1295
571854		88	571894		457
571855		32	571895		28
571856		1837	571896		179
571857		59	571897		699
571858		<5	571898		1442
571859		152	571899		24
571860		144	571900		921
571861		381	571901		167

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAF

RAPPORT: C96-64003.0 (COMPLET) DATE DE L'IMPRESSION: 16-OCT-96 PAGE 2

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB	NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571902		691			
571903		46			
571904		14			
571905		<5			
571906		508			
571907		572			
571908		230			
571909		1808			
571910		15			
571911		1732			
571912		155			
571913		131			
571914		8			
571915		<5			

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CERTIFICAT D'ANALYSE

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. — PROJET: LAFONTAINE
RAPPORT: C96-64137.0 (COMPLET) — DATE DE L'IMPRESSION: 29-OCT-96 — PAGE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571916		<5
571917		7
571918		11
571919		<5
571920		<5
571921		<5
571922		<5
571923		<5
571924		<5
571925		<5
571926		16
571927		18
571928		17
571929		<5
571930		<5
571931		<5
571932		<5
571933		<5
571934		<5
571935		67
571936		<5
571937		<5
571938		7
571939		16

C.P. / P.O. 550 148, AVENUE PERREAULT VAL D'OR (QUÉBEC) J9P 4P5 TÉL.: (819) 824-4337
FAX: (819) 824-4745

LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE
BOURLAMAQUE ASSAY LABORATORIES LTD.

Explorations Minières du Nord

CERTIFICAT D'ANALYSES
CERTIFICATE OF ANALYSIS

N° 68383

ECHANTILLONS / SAMPLES: Pulpes

REÇU DE / RECEIVED FROM: Paul A. Girard

VAL D'OR (QUÉBEC): le 1 novembre 19 96

ANALYSES / ASSAYS: 64 Au
10 Au

Echantillon		Au ppb
571854-0033		110
855-0034		20
856-0035	*	>1000
857-0036		30
858-0037		<5
859-0038		140
860-0039		200
0040		<5
861-0041		380
862-0042		30
863-0043		820
864-0044	*	>1000
865-0045		70
866-0046		70
867-0047		690
868-0048		20
869-0049		70
870-0050		30
871-0051		30
872-0052		<5
873-0053	*	>1000
874-0054		50
875-0055		<5
876-0056	*	>1000
877-0057		610
878-0058		140
879-0059		160
880-0060		80
881-0061		290
882-0062		50
883-0063		120
884-0064		30
885-0065		360
886-0066		100
887-0067		30

Echantillon		Au ppb
571888-0068		820
889-0069		220
890-0070		351
891-0071	*	>1000
892-0072		130
893-0073		920
894-0074		180
895-0075		30
896-0076		260
897-0077		830
898-0078	*	>1000
899-0079		10
0080	*	>1000
900-0081	*	>1000
901-0082		130
902-0083		750
903-0084		20
904-0085		<5
905-0086		<5
906-0087		650
907-0088		530
908-0089		300
909-0090	*	>1000
910-0091		5
911-0092	*	>1000
912-0093		160
913-0094		100
914-0095		<5
915-0096		<5

Echantillon		Au ppm
571856-0035	*	2.45
864-0044	*	3.30
873-0053	*	1.05
876-0056	*	1.15
891-0071	*	2.45
898-0078	*	2.65
0080	*	2.45
900-0081	*	1.45
909-0090	*	2.15
911-0092	*	1.70

< = moins que
> = plus que

ANALYSTE / ASSAYER
L. - D. Melnbardis

C.P. / P.O. 550 148, AVENUE PERREAULT VAL D'OR (QUÉBEC) J9P 4P5 TÉL.: (819) 824-4337
FAX: (819) 824-4745

LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE
BOURLAMAQUE ASSAY LABORATORIES LTD.

Explorations Minières du Nord

CERTIFICAT D'ANALYSES
CERTIFICATE OF ANALYSIS

N° 68390

ÉCHANTILLONS / SAMPLES: Rejets

REÇU DE / RECEIVED FROM: Paul A. Girard

VAL D'OR (QUÉBEC): le 4 novembre 19 96

ANALYSES / ASSAYS: 61 Au
8 Au

Echantillon	Au ppb	Echantillon	Au ppb	Echantillon	Au ppm
571854	90	571888	* >1000	571856	* 5.05
855	30	889	310	864	* 2.85
856	* >1000	890	370	876	* 1.25
857	50	891	* >1000	888	* 1.00
858	20	892	150	891	* 2.30
859	90	893	900	898	* 2.55
860	160	894	340	900	* 1.35
861	330	895	30	911	* 1.25
862	100	896	250		
863	950	897	670		
864	* >1000	898	* >1000		
865	60	899	10		
866	90	900	>1000		
867	450	901	110		
868	130	902	490		
869	60	903	30		
870	30	904	5		
871	30	905	<5		
872	<5	906	630		
873	500	907	490		
874	80	908	370		
875	20				
876	* >1000	910	20		
877	560	911	* >1000		
878	130	912	170		
879	170	913	80		
880	90	914	<5		
881	280	915	<5		
882	160				
883	70				
884	30				
885	150				
886	50				
887	50				

< = moins que
> = plus que

ANALYSTE / ASSAYER

L. D. Melnbardis

C.P. / P.O. 550 148, AVENUE PERREAULT VAL D'OR (QUÉBEC) J9P 4P5 TÉL.: (819) 824-4337
FAX: (819) 824-4745

LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE
BOURLAMAQUE ASSAY LABORATORIES LTD.

CERTIFICAT D'ANALYSES
CERTIFICATE OF ANALYSIS

Explorations Minières du Nord

N° 68769

ECHANTILLONS / SAMPLES: Pulpes

VAL D'OR (QUÉBEC): le 20 décembre 19 96

REÇU DE / RECEIVED FROM: Paul A. Girard

ANALYSES / ASSAYS: 12 Au
3 Au

Echantillon		Au ppb	Echantillon		Au ppm
571830		820	571842	*	1.70
832		750	846	*	2.95
836		740	849	*	1.65
838		490			
839		890			
841		170			
842	*	>1000			
846	*	>1000			
847		710			
849	*	>1000			
850		50			
851		10			

> = plus que

ANALYSTE / ASSAYER

I. - D. Melnbardis

C.P. / P.O. 550 148, AVENUE PERREAULT VAL D'OR (QUÉBEC) J9P 4P5 TÉL.: (819) 824-4337
FAX: (819) 824-4745

LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE
BOURLAMAQUE ASSAY LABORATORIES LTD.

Explorations Minières du Nord

CERTIFICAT D'ANALYSES
CERTIFICATE OF ANALYSIS

N° 68770

ÉCHANTILLONS / SAMPLES: Rejets
REÇU DE / RECEIVED FROM: Paul A. Girard

VAL D'OR (QUÉBEC): le 20 décembre 19 96
ANALYSES: 39 Au
ASSAYS: 6 Au

Echantillon		Au ppb
571705		230
706	*	>1000
714	*	>1000
715		410
716		540
717		360
718		200
746		110
748		310
760	*	>1000
763		30
766		<5
770		<5
772		<5
774		100
775		10
779		70
785		70
795		10
796		190
798		140
801		850
822		410
823		60
824		210
830		880
836	*	>1000
838		490
839		640
841		350
842	*	>1000
847		840
849	*	>1000
850		80
851		10

Echantillon		Au ppm
571706	*	2.95
714	*	1.70
760	*	3.00
836	*	1.30
842	*	1.60
849	*	1.60

< = moins que
> = plus que

ANALYSTE / ASSAYER
L. - D. Melnbardis

C.P. / P.O. 550 148, AVENUE PERREAULT VAL D'OR (QUÉBEC) J9P 4P5 TÉL.: (819) 824-4337
FAX: (819) 824-4745

LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE
BOURLAMAQUE ASSAY LABORATORIES LTD.

Explorations Minières du Nord

CERTIFICAT D'ANALYSES
CERTIFICATE OF ANALYSIS

N° 68751

ÉCHANTILLONS / SAMPLES: Pulpes

VAL D'OR (QUÉBEC): le 18 décembre 19 96

REÇU DE / RECEIVED FROM: Paul A. Girard

ANALYSES / ASSAYS: 27 Au
4 Au

Echantillon		Au ppb
571705		370
706	*	>1000
714	*	>1000
715		530
716		410
717		310
718		180
746		150
748		500
760	*	>1000
763		60
766		10
770		10
772		<5
774		140
775		20
779		130
785		20
795		10
796		240
798		180
801		570
807	*	>1000
808		190
822		380
823		70
824		130

Echantillon		Au ppm
571706	*	2.15
714	*	2.40
760	*	2.15
807	*	2.80

< = moins que
> = plus que

ANALYSTE / ASSAYER

L. - D. Melnbardis

ITS Intertek Testing Services
Chimitec Bondar Clegg

Certificat D'Analyse
Assay Lab Report

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAF

RAPPORT: C97-63904.0 (COMPLET) DATE RECU: 10-NOV-97 DATE DE L'IMPRESSION: 12-NOV-97 PAGE 1 DE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571986		18
571987		<5
571988		345
571989		28
571990		194
571991		29
571992		19

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

Intertek Testing Services
Chimitec

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAF

RAPPORT: C97-63641.0 (COMPLET) DATE RECU: 24-OCT-97 DATE DE L'IMPRESSION: 28-OCT-97 PAGE 1 DE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
571975		286
571976		82
571977		195
571978		16
571979		6
571980		<5
571981		23
571982		45
571983		34
571984		10
571985		8

ITS Intertek Testing Services
Chimitec Bondar Clegg

Certificat D'Analyse
Assay Lab Report

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAF
RAPPORT: C97-63902.0 (COMPLET) DATE RECU: 10-NOV-97 DATE DE L'IMPRESSION: 13-NOV-97 PAGE 1 DE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB	NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB
629501		<5	629541		113
629502		20	629542		228
629503		62	629543		<5
629504		12	629544		<5
629505		26	629545		12
629506		13	629546		28
629507		8			
629508		13			
629509		<5			
629510		<5			
629511		558			
629512		14			
629513		22			
629514		22			
629515		<5			
629516		<5			
629517		<5			
629518		28			
629519		13			
629520		208			
629521		91			
629522		<5			
629523		<5			
629524		13			
629525		<5			
629526		<5			
629527		10			
629528		18			
629529		<5			
629530		14			
629531		25			
629532		16			
629533		18			
629534		27			
629535		247			
629536		33			
629537		<5			
629538		<5			
629539		<5			
629540		5			

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

ITS Intertek Testing Services Chimitec

CLIENT : EXPLORATIONS MINIERES DU NORD LTEE. PROJET: LAF

RAPPORT: C97-63903.0 (COMPLET) DATE RECU: 10-NOV-97 DATE DE L'IMPRESSION: 13-NOV-97 PAGE 1 DE 1

NUMÉRO DE L'ÉCHANTILLON	ÉLÉMENT UNITÉS	Au30 PPB	Au G/T
629547		27	
629548		12	
629549		17	
629550		21	
629551		18	
629552		12	
629553		40	
629554		10	
629555		36	
629556		35	
629557		6	
629558		14	
629559		291	
629560		6	
629561		39	
629562		55	
629563		103	
629564		39	
629565		80	
629566		1546	1.64
629567		6	
629568		7	
629569		9	
629570		495	
629571		327	
629572		<5	
629573		8	
629574		6	
629575		1115	1.00
629576		<5	
629577		39	
629578		19	
629579		84	
629580		139	
629581		35	
629582		27	
629583		41	
629584		<5	
629585		29	
629586		16	

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use): W9840.00429

Assessment Files Research Imaging

[redacted] subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the review the assessment work and correspond with the mining land holder. Recorder, Ministry of Northern Development and Mines, 6th Floor,

42E12SW2004 2.18486 SUMMERS 900

PROVINCIAL RECORDING OFFICE - SUDBURY
RECEIVED
APR 27 1998
A.M. 11:35 NB P.M.
7 8 9 10 11 12 1 2 3 4 5 6

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink. 2.18486

1. Recorded holder(s) (Attach a list if necessary)

Name: AMEDE LAFONTAINE
Address: P.O. Box 36, BEARDMORE
ONTARIO POT 1G0
Client Number: 155502
Telephone Number: 807-875-2157
Fax Number: 807-875-2157

RECORDED
APR 27 1998

Name: SHIRLY LAFONTAINE
Address: P.O. Box 36 BEARDMORE
ONTARIO POT 1G0
Client Number: 155503
Telephone Number: 807-875-2157
Fax Number: 807-875-2157

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2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☑ Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
☑ Physical: drilling, stripping, trenching and associated assays
☐ Rehabilitation

Work Type: LINE CUTTING, MAGNETIC SURVEY, STRIPPING, DIAMOND DRILLING

Office Use
Commodity: AU, ZN
Total $ Value of Work Claimed: $ 4,406.60
NTS Reference:
Mining Division: Thunder Bay
Resident Geologist District:

Dates Work Performed: From 01 (Day) 09 (Month) 96 (Year) To 22 (Day) 10 (Month) 97 (Year)
Global Positioning System Data (if available):
Township/Area: SUMMERS
Plan or G-Plan Number: G 165

Please remember to:
- obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: TED GOETTEL - EXPLORATIONS MINIERES DU NORD
Address: 1612 O'REILLY, SHERBROOKE, QUEBEC J1J 1C1
Telephone Number: 819-563-4356
Fax Number: 819-563-0344

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APR 27 1998
GEOSCIENCE ASSESSMENT OFFICE

Name:
Address:
Telephone Number:
Fax Number:

MAY 07 '98 15:07 819563034456 PAGE.01

Address:
Fax Number:

4. Certification by Recorded Holder or Agent

I, Ted Goettel (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Ted Goettel
Date: April 20, 1998
Agent's Address: 1612 O'REILLY SHERBROOKE, QUE J1J 1C1
Telephone Number: 819-563-4356
Fax Number: 819-563-0344

Deemed July 26/1998

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use): W.9840.00429
Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before recording a claim, use form 0240.
- Please type or print in ink.

2.18486

1. Recorded holder(s) (Attach a list if necessary)

Name: DANIEL LAFONTAINE	Client Number: 155531
Address: 212 GORDON STREET, THUNDER BAY	Telephone Number: 807-577-0706
ONTARIO P7E 4T3	Fax Number:
Name: PANGEA GOLDFIELDS	Client Number: 203388
Address: ONE FINANCIAL PLACE, SUITE 2410	Telephone Number: 416-350-3781
1 ADELAIDE STREET EAST, BOX 206	Fax Number: 416-350-3782
TORONTO ONTARIO M5C 2V9	

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☐ Geotechnical: prospecting, surveys, assays and work under section 18 (regs)
☐ Physical: drilling, stripping, trenching and associated assays
☐ Rehabilitation

RECORDED
APR 27 1998

Work Type:

Dates Work Performed: From Day | Month | Year To Day | Month | Year

Global Positioning System Data (If available)

Township/Area: SUMMERS
M or G-Plan Number: G165

Office Use	
Commodity	
Total $ Value of Work Claimed	406,611
NTS Reference	
Mining Division	Thunder Bay
Resident Geologist District	

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name: TED GOETTEL - EXPLORATIONS MINIERES DUNORD	Telephone Number: 819-563-4356
Address: 1612 O'REILLY, SHERBROOKE, QUE J1J 1C1	Fax Number: 819-563-0344
Name:	Telephone Number:
Address:	Fax Number:
Name:	Telephone Number:
Address:	Fax Number:

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APR 27 1998
2.30
GEOSCIENCE ASSESSMENT OFFICE

4. Certification by Recorded Holder or Agent

I, TED GOETTEL (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: Ted Goettel		Date
Agent's Address	Telephone Number	Fax Number

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W.9840.00429

Amended Copy

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
LINE CUTTING	76 KM	288	21900
MAGNETIC SURVEY	99.5 KM	105/KM	10,470
STRIPPING	224.45 HRS	85/HR	19078
DIAMOND DRILLING	3082 M	61/M	188229
ASSAYING	523 SAMPLES	12/SAMPLE	6486
Associated Costs (e.g. supplies, mobilization and demobilization).			2.184.86
GEOLOGICAL + TECHNICAL SUPPORT INCLUDING			
LABOUR			95004
EQUIPMENT RENTAL + MISC			7709
ADMINISTRATION			47864
Transportation Costs			
Food and Lodging Costs (TRANSPORTATION)			14867
		Total Value of Assessment Work	406,607

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APR 27 1998

Calculations of Filing Discounts:

Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
Work older than 5 years is not eligible for credit.
A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, TED GOETTEL (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as V.P EXPLORATION (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: [signature] Date: [illegible]

Work to be recorded and distributed. Work that is performed on Crown Lands that are subsequently staked as a g claim, can be claimed at 100% of its value (state this amount in column "a" below). If work is performed on Crown : and not enclosed within a subsequently recorded claim, it can be claimed at 25% of its value (state this amount lumn "b" below). Work can only be assigned to claims that are contiguous to (adjoining) the lands where work was rmed at the time work was performed. A map showing the contiguous link must accompany this form.

AMENDED COPY

	g Claim Number	No. of Claim Units	Value of work performed before recording a mining claim: (a) Work now within a claim. Show 100% of cost.	(b) Work on adjacent Crown lands. Show 25% of cost.	Value of work applied to this claim	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a later date. W9840..
	1234567	4	$4980	$725	$1600	$800	$3305
	1234568	2	N/A	N/A	$ 800	N/A	N/A
	1174245	1	501	~~4222~~	400	101	0
	1174246	1	198	N/A	400	~~(202)~~ TG	
	1174247	1	1057	N/A	400	442	215
	1174237	1	1533	N/A	400	0	1133
	1208773	3	19563	N/A	1200	0	18363
	1174262	1	793	N/A	400	0	393
	1174261	1	1123	N/A	400	0	723
	1174260	1	1283	N/A	400	0	883
1	1174256	1	TG 793	N/A	400	0	393
0	1174257	1	859	N/A	400	0	459
1	1174258	1	793	N/A	400	0	393
2	1174255	1	1057	N/A	400	0	657
3	1194268	1	848	N/A	400	0	448
14	1194266	1	657	N/A	400	0	257
15	1174263	1	727	N/A	400	0	327
	Column Totals	17	31785	N/A	6800	342	24644

TED GOETTEL (Print Full Name), do hereby certify that the above work credits are eligible under ubsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to he claim where the work was done.

2.1846

Signature of Recorded Holder or Agent Authorized in Writing: Ted Goettel

Date: Revised May 7, 1998

). Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits...

☐ ...nk first, followed by option 2 or 3 or 4 as indicated.
☐ ... the claims listed last, working backwards; or
☐ ... all claims listed in this declaration; or
☐ ... on the attached appendix or as follows (describe):

TO: Doreen Armstrong

FROM: T. GOETTEL

Thank you
Have a nice weekend ☺
Ted

RECORDED
APR 27 1998

Note: If you hav... listed, credits will be cut back from the Bank first, followed b...

recycled recycle

For Office Use (Only)

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Amended C

Work to be recorded and distributed. Work that is performed on Crown Lands that are subsequently staked as a mining claim, can be claimed at 100% of its value (state this amount in column "a" below). If work is performed on Crown lands and not enclosed within a subsequently recorded claim, it can be claimed at 25% of its value (state this amount column "b" below). Work can only be assigned to claims that are contiguous to (adjoining) the lands where work was performed at the time work was performed. A map showing the contiguous link must accompany this form.

Mining Claim Number		No. of Claim Units	Value of work performed before recording a mining claim		Value of work applied to this claim	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a later date.
			(a) Work now within a claim. Show 100% of cost.	(b) Work on adjacent Crown lands. Show 25% of cost.			
9	1234567	4	$4980	$725	$1600	$800	$3305
9	1234568	2	N/A	N/A	$ 800	N/A	N/A
1	1068873	1	15 772	N/A	400	0	15 372
2	1068872	1	198	N/A	400	-202	0
3	1068871	1	25 769	N/A	400	0	25 369
4	1068879	1	1 411	N/A	400	0	1,011
5	1174243	1	1819	N/A	400	0	1419
6	1208774	3	1983	N/A	1200	0	783
7	1174242	1	2106	N/A	400	0	1700
8	1068878	1	605	N/A	400	0	205
9	1068875	1	1130	N/A	400	0	730
10	1174241	1	2489	N/A	400	0	2089
11	1174250	1	32 299	N/A	400	0	31899
12	1174249	1	1190	N/A	400	0	790
13	1174240	1	2656	N/A	400	0	2256
14	1068876	1	1133	N/A	400	0	733
15	1068877	1	397	N/A	400	-3	0
	Column Totals	17	90951	N/A	6800	-205	84356

I, TED GOETTEL (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: T Goettel — 2.18 — Date: Amended May 7, 1998

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

RECORDED
APR 27 1998

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

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Amended Copy

Mining Claim Number		No. of Claim Units	Value of work performed before recording a mining claim: (a) Work now within a claim. Show 100% of cost.	(b) Work on adjacent Crown lands. Show 25% of cost.	Value of work applied to this claim	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a later date.
eg	1234567	4	$4960	$725	$1800	$800	$3305
eg	1234568	2	N/A	N/A	$ 800	N/A	N/A
1	1174264	1	16 315	N/A	400	0	15 915
2	1210743	1	9 253	N/A	400	0	8853
3	1194265	1	9882	N/A	400	0	9482
4	1194267	1	47 230	N/A	400	0	46 830
5	1174254	1	1057	N/A	400	0	657
6	1174259	1	595	N/A	400	0	195
7	1174253	1	859	N/A	400	0	459
8	1194272	1	2 671	N/A	400	0	2271
9	1194270	1	62 335	N/A	400	0	61 935
10	1148396	1	16 819	N/A	400	0	16 419
11	1174244	1	16 909	N/A	400	0	16 509
12	1148395	1	14119	N/A	400	0	13 719
13	1194269	1	81 735	N/A	400	0	81 335
14	1194271	1	1 890	N/A	400	0	790
15	1174252	1	991	N/A	400	0	591
	Column Totals	15	281 960	N/A	6 000	0	275 960

I, TED GOETTEL (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Ted Goettel — Date Revised: May 7, 1998

6. Instructions for cutting back credits that are not approved.

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- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached Appendix as follows: (describe)

RECORDED
APR 27 1998

RECEIVED
MAY - 7 1998
GEOSCIENCE ASSESSMENT OFFICE

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

5. **Work to be recorded and distributed.** Work that is performed on Crown Lands that are subsequently staked as a mining claim, can be claimed at 100% of its value (state this amount in column "a" below). If work is performed on Crown lands and not enclosed within a subsequently recorded claim, it can be claimed at 25% of its value (state this amount in column "b" below). Work can only be assigned to claims that are contiguous to (adjoining) the lands where work was performed at the time work was performed. A map showing the contiguous link must accompany this form.

Amended Copy W.9840.0

Mining Claim Number		No. of Claim Units	Value of work performed before recording a mining claim: (a) Work now within a claim. Show 100% of cost.	(b) Work on adjacent Crown lands. Show 25% of cost.	Value of work applied to this claim	Value of work assigned to other mining claims	Bank. Value of work to be distributed at a later date.
eg	1234567	4	$4960	$725	$1600	$800	$3305
eg	1234568	2	N/A	N/A	$ 800	N/A	N/A
1	1174238	1	518	N/A	400	0	118
2	1174239	1	1133	N/A	400	0	733
3	1174248	1	264	N/A	400	-136	0
4							
5							
6							
7							
8							
9							
10					2.184186		
11							
12							
13							
14							
15							
Column Totals		3	1915	N/A	1200	-136	851

406,611 20,800 1291 385,811.

I, TED GOETTEL (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing: Ted Goettel — Date: Revised May 7, 1998

406,612

6. **Instructions for cutting back credits that are not approved.**

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☐ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☐ 2. Credits are to be cut back starting with the claims listed last, working backwards: or
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RECORDED
APR 27 1998

RECEIVED
MAY - 7 1998
GEOSCIENCE ASSESSMENT OFFICE

Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

September 14, 1998

AMEDE LAFONTAINE
P.O. BOX 36
BEARDMORE, Ontario
P0T-1G0

Dear Sir or Madam:

Submission Number: 2.18486

Subject: Transaction Number(s):		**Status**
	W9840.00429	Approval After Notice

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at jeromel2@epo.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 12786

Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.18486

Date Correspondence Sent: September 14, 1998 **Assessor:** Lucille Jerome

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9840.00429	1174264	SUMMERS, BEARDMORE MARYJANE	Approval After Notice	September 04, 1998

Section:
14 Geophysical MAG
10 Physical PSTRIP
16 Drilling PDRILL

The revisions outlined in the Notice dated July 20, 1998, have been received.

Assessment work credit has been approved as outlined on the attached Distribution of Assessment Work Credit sheet.

Correspondence to:

Resident Geologist
Thunder Bay, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Ted Goettel
SHERBROOKE, QUEBEC, CANADA

AMEDE LAFONTAINE
BEARDMORE, Ontario

SHIRLEY LAFONTAINE
BEARDMORE, Ontario

DANIEL RICHARD LAFONTAINE
Thunder Bay, Ontario

PANGEA GOLDFIELDS INC.
TORONTO, ONTARIO

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: September 14, 1998

Submission Number: 2.18486

Transaction Number: W9840.00429

Claim Number	Value Of Work Performed
1174264	14,600.00
1210743	8,280.00
1194265	8,840.00
1194267	42,270.00
1174254	945.00
1174259	530.00
1174253	760.00
1194272	2,390.00
1194270	55,790.00
1148396	15,050.00
1174244	15,130.00
1148395	12,630.00
1194269	73,022.00
1194271	1,060.00
1174252	890.00
1068873	14,120.00
1068872	180.00
1068871	23,065.00
1068879	1,260.00
1174243	1,630.00
1208774	1,770.00
1174242	1,880.00
1068878	540.00
1068875	1,010.00
1174241	2,230.00
1174250	28,910.00
1174249	1,060.00
1174240	2,380.00
1068876	1,010.00
1068877	350.00
1174245	450.00
1174246	180.00
1174247	945.00
1174237	1,370.00
1208773	17,510.00
1174262	710.00

Correspondence ID: 12786

Distribution of Assessment Work Credit

The following credit distribution reflects the value of assessment work performed on the mining land(s).

Date: September 14, 1998

Submission Number: 2.18486

Transaction Number: W9840.00429

Claim Number	Value Of Work Performed
1174261	1,000.00
1174260	1,150.00
1174256	710.00
1174257	770.00
1174258	710.00
1174255	950.00
1194268	760.00
1194266	590.00
1174263	650.00
1174238	460.00
1174239	1,010.00
1174248	240.00
Total: $	363,747.00

Correspondence ID: 12786

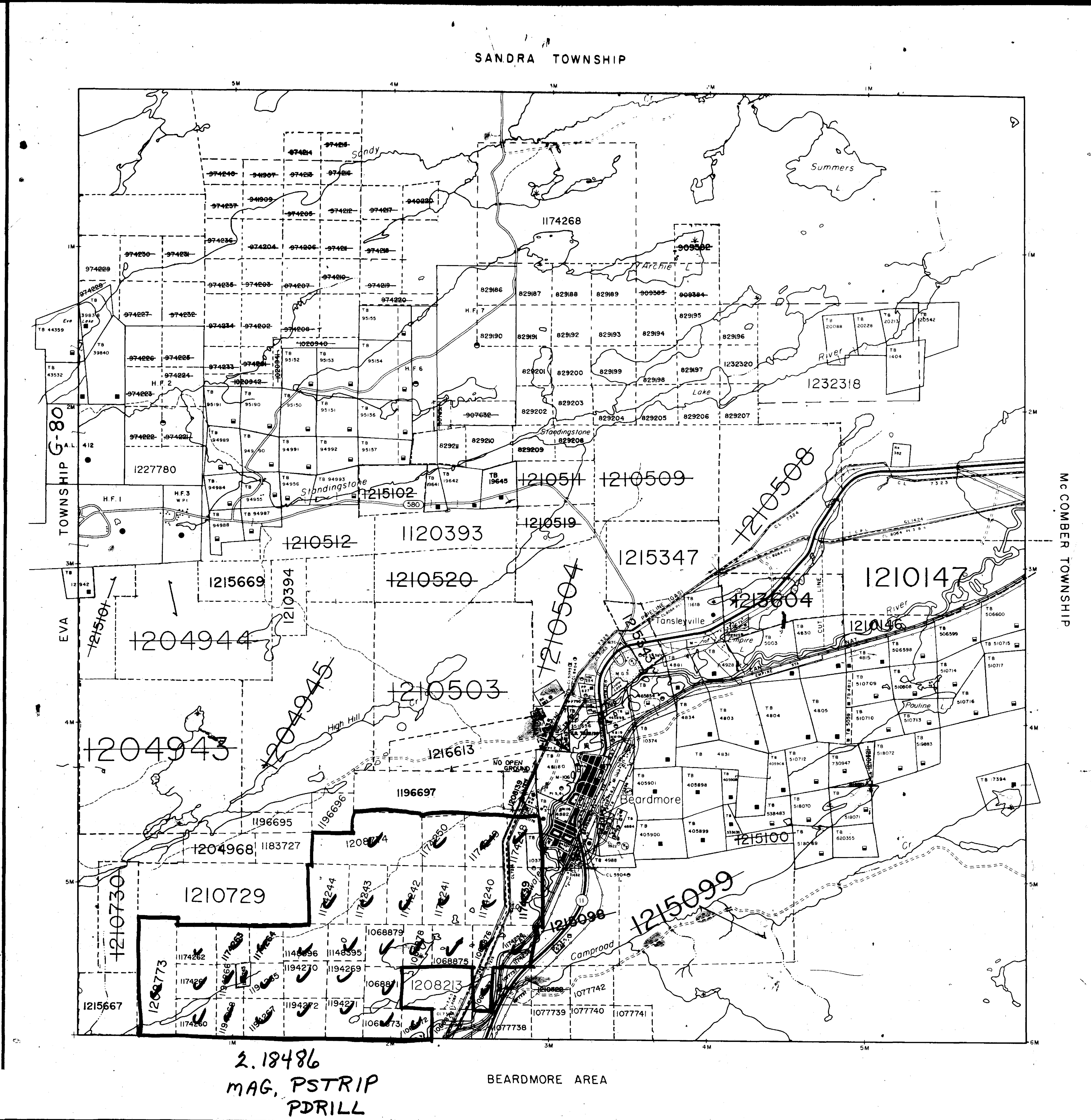
AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
Withdrawn from staking			Crown Land	59262
Withdrawn from staking Sect. 42 (R.S.O. '80) of the Mining Act				59409
Withdrawn from staking				

Surface Rights only withdrawn from staking order W-TB-36/93 MNR 93/06/27 to accommodate a drill core storage facility for MNDM.

NOTICE:
The information that appears on this map has been compiled from various sources and accuracy is not guaranteed. Those wishing to stake MINING CLAIMS should consult with the MINING RECORDER, Ministry of Northern Development and Mines, for additional information on the status of the lands shown hereon.



LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES
TOWNSHIPS BASE LINES ETC.
LOTS MINING CLAIMS PARCELS ETC.
UNSURVEYED LINES
PARCEL BOUNDARY
MINING CLAIMS ETC.
RAILWAY AND RIGHT OF WAY
UTILITY LINES
NON PERENNIAL STREAM
FLOODING OR FLOODING RIGHTS
SUBDIVISION OR COMPOSITE PLAN
RESERVATIONS
ORIGINAL SHORELINE
MARSH OR MUSKEG
MINES
TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	◓
MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
SURFACE RIGHTS ONLY	⬒
MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	®
CANCELLED	⊗
SAND & GRAVEL	Ⓢ
LAND USE PERMITS FOR COMMERCIAL TOURISM OUTPOST CAMPS	▽

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 380 SEC. 63 SUBSEC. 1

SCALE 1:20 000

THE SURFACE RIGHTS LYING WITHIN 40.25 M. OF THE CENTRE-LINE OF THE TRANS-CANADA PIPELINE RIGHT-OF-WAY ARE WITHDRAWN FROM STAKING OUT, PROSPECTING, SALE OR LEASE BY ORDER W01/91/UNT. DATED SEPT. 20, 1991. SECTION 82 OF THE NATIONAL ENERGY ACT APPLIES TO THIS AREA.

DATE OF ISSUE
SEP 14 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

TOWNSHIP
SUMMERS

M.N.R. ADMINISTRATIVE DISTRICT
NIPIGON
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY

Ministry of Natural Resources
Ministry of Northern Development and Mines
Ontario

Date: SEPTEMBER, 1986
Number: G-165
In Service Dec. 22/94.

42E12SW2004 2.18486 SUMMERS 200

SURVEYS

South Bdry. of the Tp of Summers Surveyed by Phillips and Benner O.L.S 1935.
Field note book No.2495.

E. Bdry. of the Tp of Summers by E.M.MacQuarrie O.L.S. 1935
Field note book no. 2427

South Bdrys. of the Tps. of McComber and Vincent and the E.Bdry. of McComber by R.S.Kirkup O.L.S. 1936.
Field note book no. 2395

RAILWAYS

Canadian National Ry. Surveyed by E.Fitzgerald O.L.S. 1919
Plan No. L.2-10.

ROADS

The Kings Highway No.11 from Dept. of Hwys. plans No. P.2544-23-25.
File.123032.

FLOODING

L.O.6776 Brompton Pulp and Paper Co. gives the right to hold and dam back the waters of Fairloch and Peep Lks. and flood crown lands adjoining said Lks. to Contour 1053ft. which is referred to datum of 1074ft. of the top of the dam shown on a plan of survey dated Mar.21st.1949 by J.W.Gavin O.L.S., Plan No.024-1.
File.139024. CANCELLED.

L.O.6979, St. Lawrence Corp Reserved Flooding Rights of Kinago and Baloney Lakes to 112' Contour and later extended to 120' Contour. Cancelled Dec. 3 1960.

SAND AND GRAVEL

GRAVEL FILE: 187827
M.T.C. GRAVEL PIT 2C-7

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

42B12SW2004 2.18486 SUMMERS 210

SUMMERS
For Status of Crown Lands Refer to Plan G-165

McCOMBER
For Status of Crown Lands Refer to G-166

VINCENT
For Status of Crown Lands Refer to Plan G-163

2.18486
MAG
PSTRIP
PDRILL

MARY JANE LAKE G-80

LEOPARD LAKE G-68

LAKE JEAN G-64

TOPOGRAPHY

LAKES, RIVERS, ETC. FROM FOREST RESOURCES INVENTORY SHEET No. 495874

TRANSMISSION LINES

Sand River Gold Mines Co.
100' R/W. by J.K.Benner O.L.S. 1936
Plan No. L1-26

DATE OF ISSUE
SEP 14 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	OC
RESERVATION	R
CANCELLED	
SAND & GRAVEL	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 83, SUBSEC 1.

LEGEND

PAVED ROAD
GRAVEL ROAD
OTHER ROADS
TRAIL OR PATH
HIGHWAY ROUTE No 7
ELECTRIC POWER LINE
TELEPHONE LINE
RAILROAD & RIGHT OF WAY
RAPIDS, PORTAGE
NON-PERENNIAL STREAM
EDGE OF CLEARING
TREELESS MUSKEG OR MARSH
BRIDGE, BUILDINGS
LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS ✓

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA

BEARDMORE

M.N.R. ADMINISTRATIVE DISTRICT
NIPIGON
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY

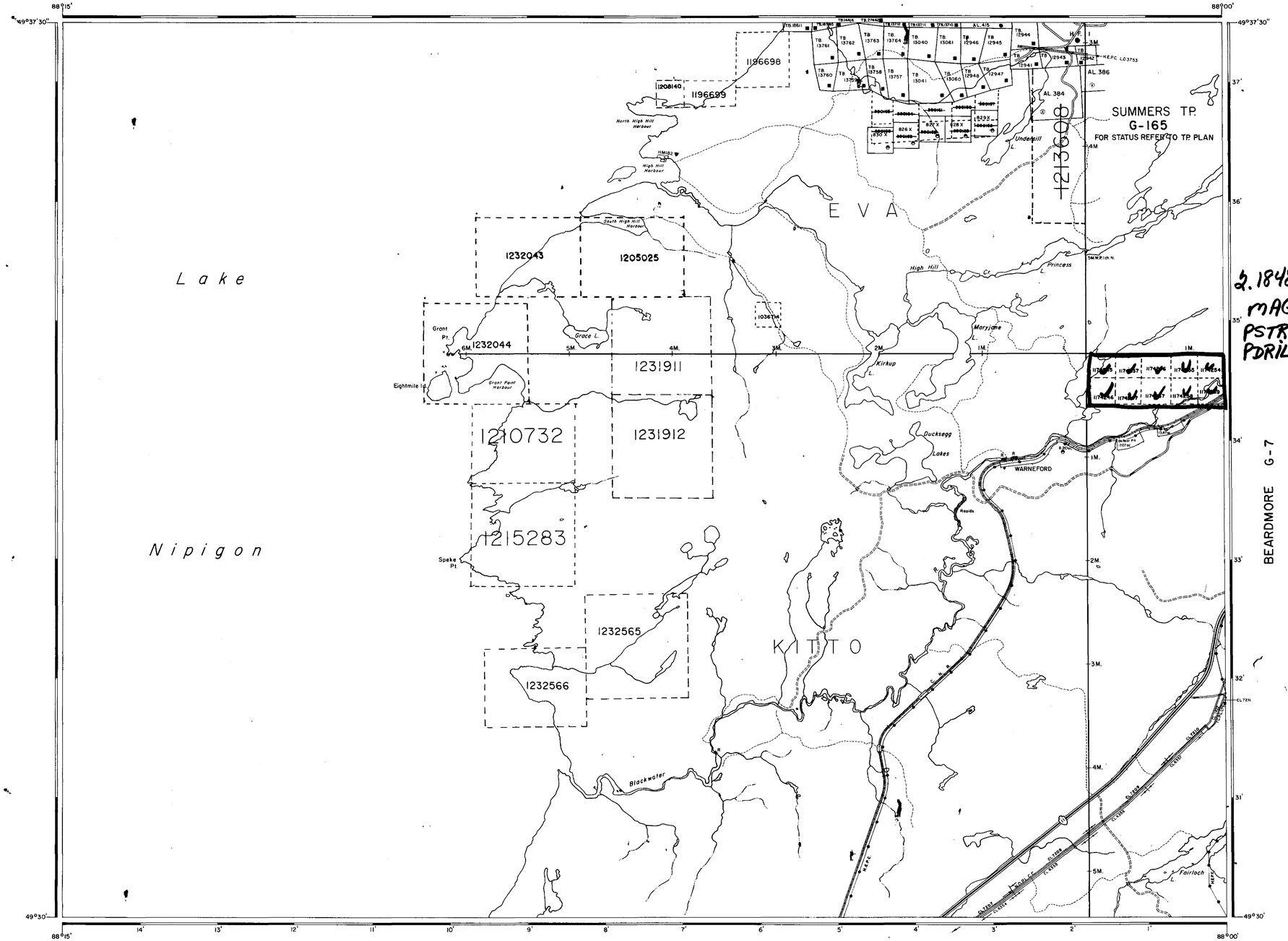
Ontario Ministry of Natural Resources — Land Management Branch

Date FEBRUARY 17th, 1981
Number G-7

NOTES

Reserve FLOODING RIGHTS on Lake Nipigon to contour elev. 855' to H.E.P.C.
O.C. dated 25th April 1930. File 12198.
Also reserve 66' from 855' contour to H.E.P.C.

POPLAR POINT G-116



2.18486
MAG
PSTRIP
PDRILL

DATE OF ISSUE

SEP 14 1998

PROVINCIAL REC. ..DING
OFFICE - SUDBURY

NOTICE:
The information that appears on this map has been compiled from various sources and accuracy is not guaranteed. Those wishing to stake MINING CLAIMS should consult with the MINING RECORDER, Ministry of Northern Development and Mines, for additional information on the status of the lands shown hereon.

THE SURFACE RIGHTS LYING WITHIN 40.25 m. OF THE CENTER-LINE OF THE TRANS-CANADA PIPELINE RIGHT-OF-WAY ARE WITHDRAWN FROM STAKING OUT, PROSPECTING, SALE OR LEASE BY ORDER W-01/91 ONT DATED SEPT. 20/91. SECTION 112 OF THE NATIONAL ENERGY ACT APPLIES TO THIS AREA.

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
CROWN LAND SALE	CS
ORDER-IN-COUNCIL	OC
RESERVATION	R
CANCELLED	R
SAND & GRAVEL	R

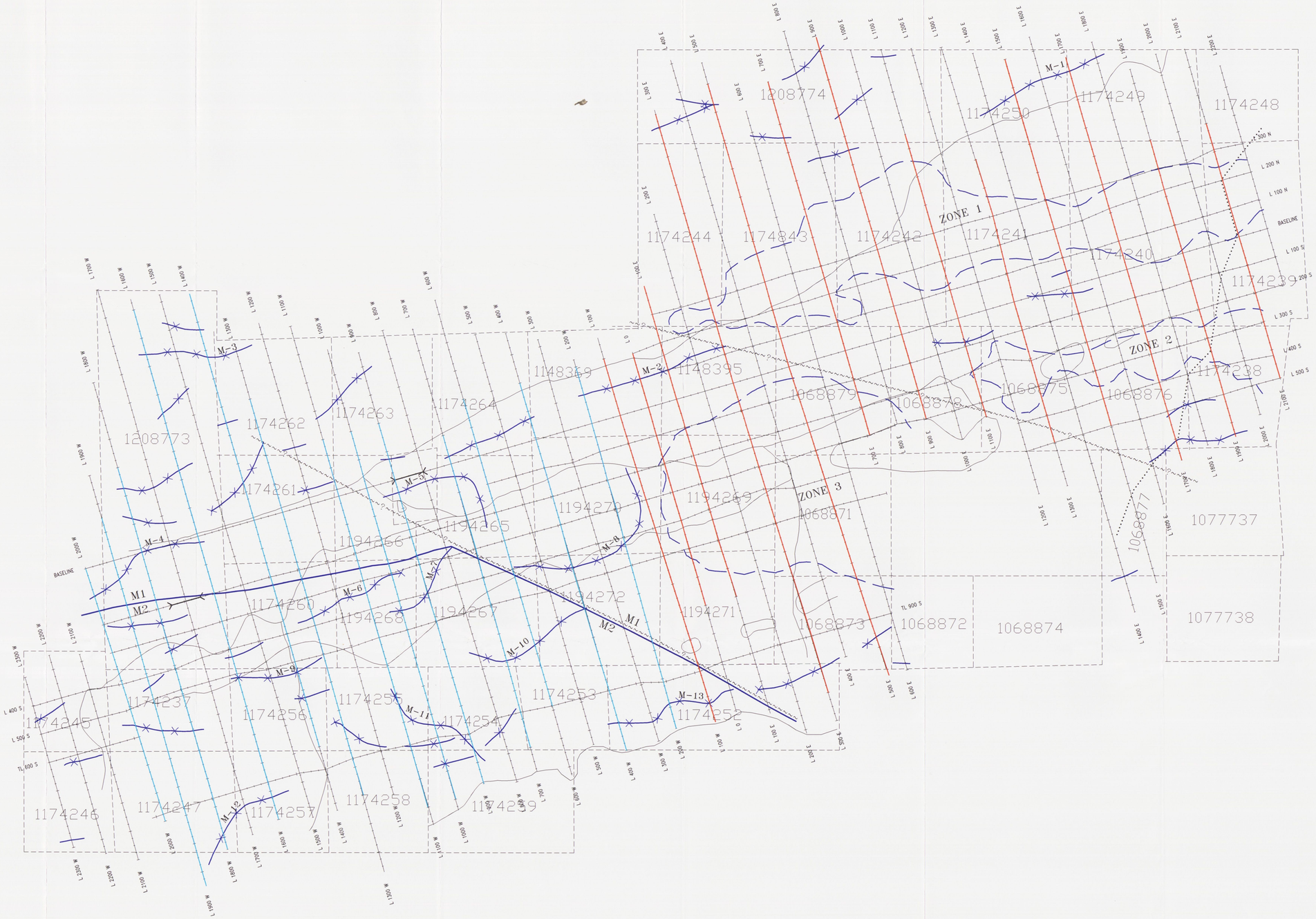
SCALE: 1 INCH = 40 CHAINS
FEET 0 800 1600 2400 4000 5600 8000
METRES 0 200 400 600 800 1KM 2KM

AREA
MARYJANE LAKE
M.N.R. ADMINISTRATIVE DISTRICT
NIPIGON
MINING DIVISION
THUNDER BAY
LAND TITLES / REGISTRY DIVISION
THUNDER BAY

Ministry of Natural Resources — Land Management Branch
Ontario

Date 17/FEB/1961
Number **G-80**
In Service Jul. 15/97 (LM)

42E12SW2004 2.18486 SUMMERS 220



LEGEND

INTERPRETATION

Magnetic zone

Magnetic axe

Interpreted fault

Magnetic domaine border M1 / M2

INDUCED POLARIZATION SURVEY RECOMENDED
(Dipole-Dipole array, a=25m n=1 to 6)

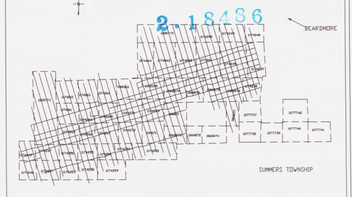
Priority #1

Priority #2

SCALE 1 : 5 000

100 0 100 200 300 400
(metres)

2.18486



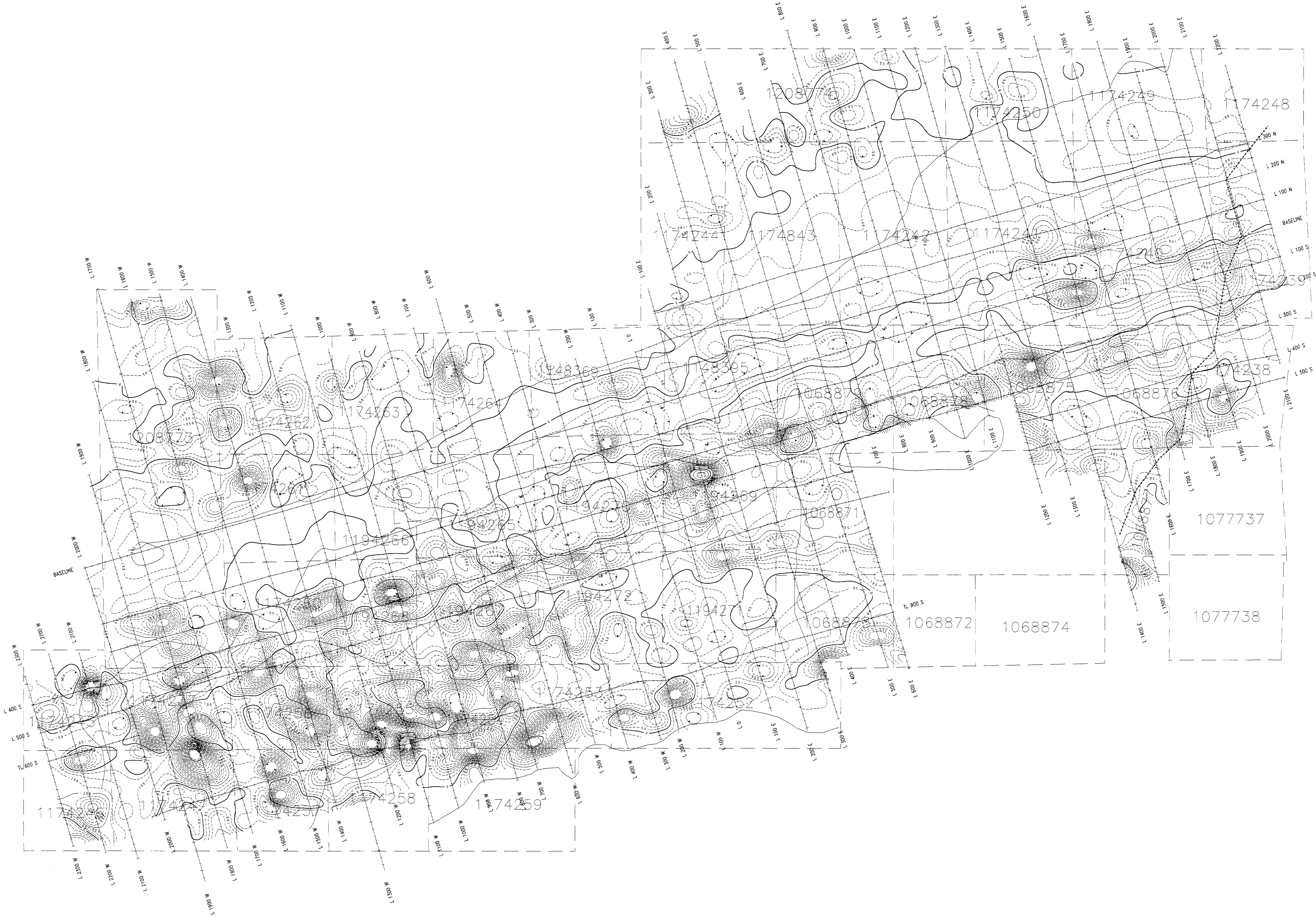
EXPLORATIONS MINIERES DU NORD LTEE
LAFONTAINE PROJECT

GEOPHYSICAL INTERPRETATION

VAL D'OR SAGAX INC.

Interpreted by : H. Polvin, Eng. Date: 09/96

Scale 1 : 5 000 Drawing no: 96-N056-1.0



LEGEND

CONTOUR INTERVALS (nanoTesla)

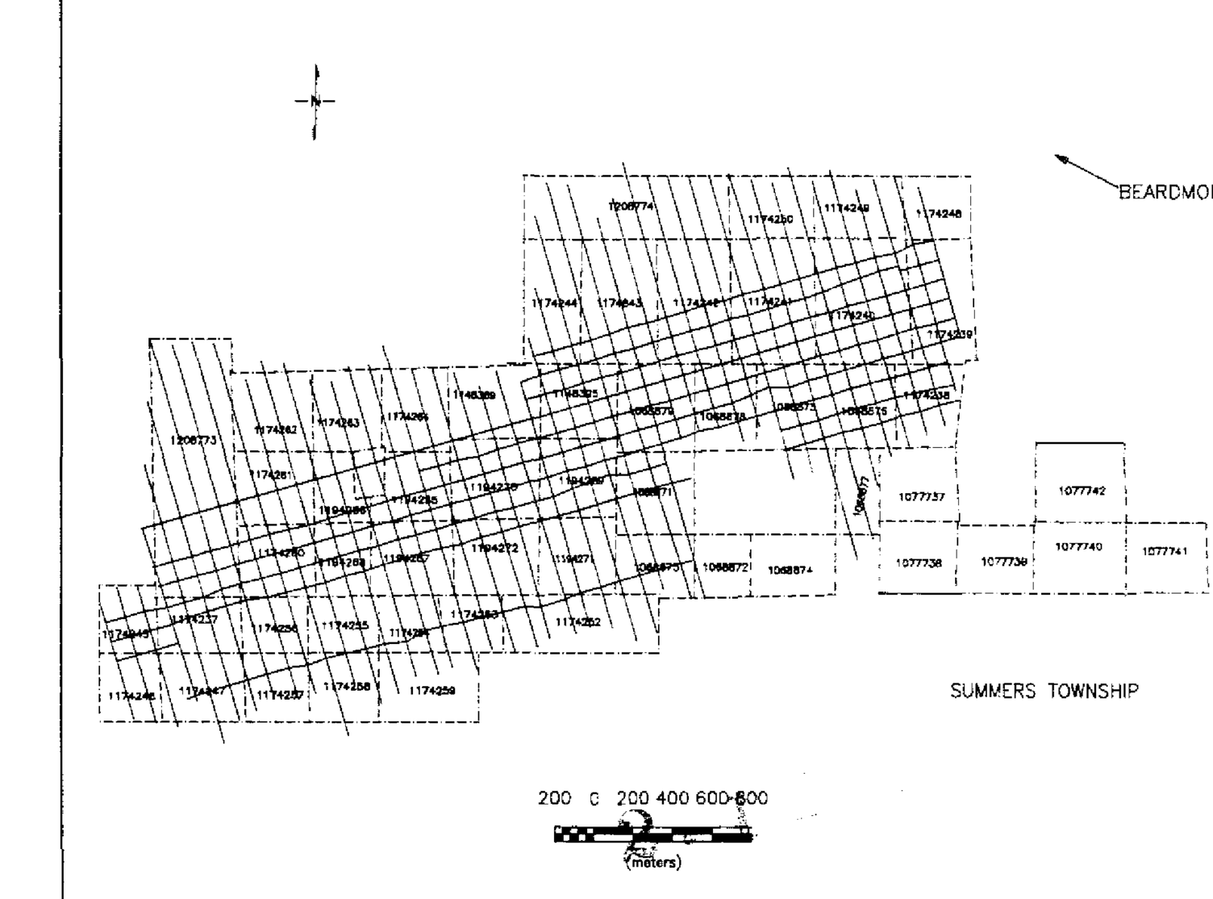
- 50
- 200
- 1000

Readings: Total field – 58500 nT
Instrument: Magnetometer GEM, GSM–19

* Total field value upward continuation (20 m)

SCALE 1 : 5 000

100 0 100 200 300 400
(metres)



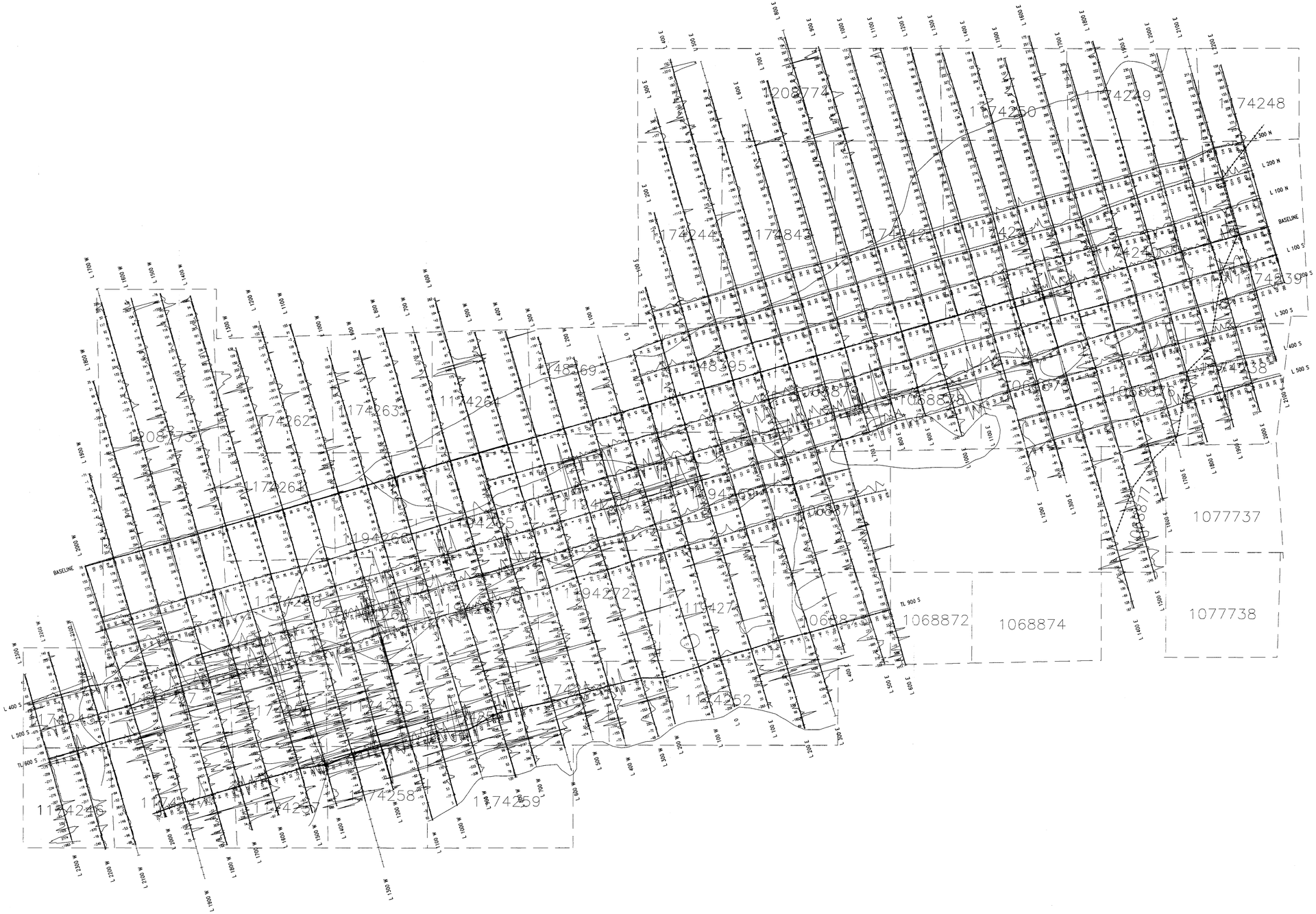
EXPLORATIONS MINIERES DU NORD LTEE
LAFONTAINE PROJECT

MAGNETIC SURVEY
TOTAL FIELD CONTOURS

VAL D'OR SAGAX INC.

Interpreted by : H. Potvin, Eng. Date: 09/96

Scale 1 : 5 000 Drawing no: 96–N056–1.1



LEGEND

MAGNETIC PROFILES

Readings: Total field - 58800 nT

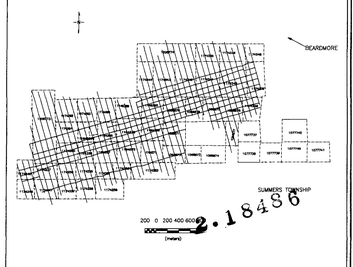
\+ 2400 2000 - (60800 58800)

1 cm = 2000 nT

Instrument: Magnetometer GEM, GSM-19

SCALE 1 : 5 000

100 0 100 200 300 400 (metres)



EXPLORATIONS MINIERES DU NORD LTEE

LAFONTAINE PROJECT

MAGNETIC SURVEY

TOTAL FIELD PROFILES

VAL D'OR SAGAX INC.

Interpreted by : H. Potvin, Eng. Date: 09/96

Scale 1 : 5 000 Drawing no: 96-N056-1.2

True North

1208774 1174248 1174249 1174250 1174843 1174244 1174239 1174241 1174240 1174242 1148395 1148369 1174262 1174263 1174264 1208773 1068879 1068875 1068876 1210743 1194265 1174261 1194269 1194266 1194270 1068871 1077737 1194268 1194272 1194267 1194271 1068873 1068872 1068874 1077739 1077738 1174260 1174253 1174252 1174237 1174256 1174254 1174245 1174255 1174238 1174246 1174247 1174257 1174258 1174259

Town of Beardmore

BLO

Rentz

Swamp Lake

996 ppb Au

3,84 g/t Au
84 ppb, 40 ppb Au

686, 621 ppb Au

36,5g/t Au
From muck pile

6ppb Au

16ppb Au

7ppb Au

8ppb Au

18ppb Au

195ppb Au

38 ppb Au

280ppb Au

52, 26 ppb Au

194ppb Au

3, 7 ppb Au

19, 12, 79 ppb Au

75, 31 ppb Au

28ppb Au

38ppb Au

345ppb Au

<5 ppb Au

29 ppb Au

Massive Po
No values

Massive magnetite

From archives
not observed

<2, <2 ppb Au

72, <2, 5, 17 ppb Au

22, 8 ppb Au

3, 172, 4 ppb Au

60ppb Au

15ppb Au

2,55g/t Au

43,89 g/t Au
114ppb Au

7, 451, 55 ppb Au
6.01 g/t Au

102, 210 ppbAu
6.21g/t Au

286 ppb Au
82 ppb Au

34ppb Au
10 ppb Au

Massive Po
45 ppb Au

40 ppb Au

<2, 7, 17 ppb Au

19ppb Au

23ppb Au

<5ppb Au

Approximate area of old Canadian Anglo-Beardmore Trenches
8ppb Au from quartz vein

MAIN B.I.F.

100 0 100 200 300
(metres)

LEGEND

- Trail
- "Showing"
- TerraQuest Airborne
  - VLF Normal Quad
  - Reverse quad
  - Total field only
- Max Min
- VLF Oct 89 Golden Dragon
- VLF March 87
- Stripped areas
- Stripped areas 1996
- Lake or pond
- Swamp
- Claim post
- Pit
- Shear
- Pipeline
- BIF
- CNR
- Placer Dome Sampling
- Miniere du Nord sampling
- Diamond drill Hole

PREVIOUS SAMPLING
- < 50 ppb Au
- > 50<150 ppb Au
- >150<500 ppb Au
- >500 < 1g/t
- > 1g/t Au

CLIENT EXPLORATIONS MINIERES DU NORD LTEE.	MADE T. GOETTEL	DATE March 98
PROJECT LAFONTAINE	SCALE 1: 5 000	
COMPILATION MAP	FIGURE #32	