

GM 53302

SUMMARY OF DRILLING 1994 WINTER PROJECT, TEMISCAMINGUE AREA

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Énergie et Ressources
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Québec 

**SUMMARY OF DRILLING
1994 WINTER PROJECT
TEMISCAMINGUE AREA, P.Q.**

A) PROPERTY, LOCATION, ACCESS

The properties of the Témiscamingue project can be place in three differents blocks:
1) Baby-Guigues, 2) Laverlochère-Gaboury and 3) Spider 2.

1) BABY-GUIGUES

The subject area is located approximately 100 km south of Rouyn-Noranda in NW Quebec and within a highly developed infrastructure.

The property covers an area of approximately 4 560 hectares or 50 km² in the SW part of Baby and SE Guigues townships.

The area is easily accessible by road from Notre-Dame-du-Nord or Ville-Marie. The property is now either marginal or abandoned farmland with a high density of country roads transecting the area.

2) LAVERLOCHÈRE - GABOURY

This property is located in the west central part of Gaboury township and the east central part of Laverlochère township. The property covers an area of approximately 2 799 hectares in Gaboury and Laverlochère townships in Temiscamingue, Quebec.

The property is accessible via Fugèreville a small agricultural village located along the route between Ville-Marie and Belleterre.

MRN - S.I.S.E.M.

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3) SPIDER - 2

Grid 1 is located in Nedelec and Casey townships approximately 5 kilometers NNW of Notre-Dame-du-Nord. Grid 2 is located in Montreuil townships 14 kilometers NNE of grid 1 and grid 3 in Mulligan and Pontleroy townships respectively in Ontario and Quebec and approximately 24 km North of grid 1.

B) INTRODUCTION

15 holes were drilled during January and February 1994; 12 holes for diamond exploration and 3 drill holes for gold exploration. All targets were selected as being representative of different groups of anomalies. Moves were made by trucks and tractors and were only few kilometers away. The Témiscamingue Project can be consider as the cheapest diamond exploration project in Canada. And the discovery of at least one diamond bearing kimberlite shows cleary the potential of the area for diamond exploration.

C) GEOPHYSICS

Drill targets were selected on the basis of magnetic patterns.

Targets were originally identified from regional government surveys. At the beginning of the project 30 targets were selected for detailed magnetic surveys.

13 grids were cutted using 100 metre line spacing and 5 grids only flaged but using the same spacing.

Overall more than 510 km of MAG-VLF survey were performed on the 18 grids and 12 targets of possible diatreme kimberlite were selected and drilled.

Table 1 is a summary of work performed on each grid.

D) DRILLING

Table 2 shows the holes, their location and other logistical data and table 3 summarizes the geology.

The following section summarizes the geology of each hole and try to explain each magnetic anomalies.

TABLE 1

GRID 1 (Spider 2 - P.Q.)

Nedelec / Casey Twps				
Geoph. 40,498 km MAG-VLF				
Drill Holes	T.D.	Casing		
NDN - 94-05	330'	(50')	L 400 W	250 N
NDN - 94-09	400'	(120')	L 600 W	100 N
NDN - 94-10	330'	(62')	L 600 W	250 N
NDN - 94-11	307'	(120')	L 900 W	500 N

GRID 2 (Spider 2 - P.Q.)

Montreuil Twp				
A) South				
Geoph. 24,918 km MAG-VLF				
Drill Hole	T.D.	Casing		
25-94-06	330'	(12')	L 3100 W	P 540 S

B) North				
Geoph. 64,122 km MAG-VLF				
Drill Holes	T.D.	Casing		
2-94-07	330'	(21,5')	L 200 W	P 1320 N
2-94-08		Not drilled yet		

GRID 3 (Spider 2 - P.Q.)

Pontelroy / Mulligan Twps				
(Quebec - Ontario border)				
Geoph. 23,2 km MAG-VLF				
Drill Hole	T.D.	Casing		
ONT-94-12	330'	(2')	L - 700 E	P - 700 S

GRID A (Lac Long)

Geoph. 47, 116 km MAG-VLF

GRID B (Lac des douzes)

<i>Geoph. 49,258 km MAG-VLF</i>				
Drill Hole	T.D.	Casing		
B-94-01	321'	(15')	L - 1100 E	P - 200 N

GRID C (Cameron)

Geoph. 19,721 km MAG-VLF

GRID D (Lac Honorat)

<i>Geoph. 15,176 km MAG-VLF</i>				
Drill Hole	T.D.	Casing		
D-94-03	322'	(8')	L - 300 W	P - 510 S

GRID D (Extension Érablière)

Geoph. 2,225 km MAG-VLF

GRID E (Laverlochère River)

<i>Geoph. 13,037 km MAG-VLF</i>				
Drill Hole	T.D.	Casing		
E-94-02	173'	(4,3')	L - 600 E	P - 425 N

GRID F (Lac de la petite loutre)

Geoph. 13,05 km MAG-VLF

GRID F (Extension)

Geoph. 36,970 km MAG-VLF

GRID A-93 (G.-L., INPUT)

1re Extension

Geoph.	24,046 km MAG-VLF
	20,7 km Induced Polarization

2ième Extension

Geoph.	55,088 km MAG-VLF
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Drill Holes	T.D.	Casing			
GL-94-01	460'	(8')	L - 925 E	P - 750 S	210° / 50°
GL-94-03	460'	(8')	L - 1700 E	P-737,5 S	180° / 50°
GL-94-04	536'	(4')	L - 1200 E	P - 750 S	180° / 50°

GRID MONOPROS

Geoph. 14 726 km MAG-VLF

Drill Hole	T.D.	Casing		
MON-94-01	330'	(0')	L - 400 W	P - 100 N

GRID HONORAT EXTENSION

LAVERLOCHERE TWP

Geoph. 9,247 km MAG-VLF

Drill Hole	T.D.	Casing		
L.H.-94-04	330'	(5')	L - 1500 E	P - 150 S

GRID ONLY FLAGED

Honorat	15,248 km	MAG-VLF	
Hanson	13,0 km	MAG-VLF	
Rivière de La Loutre	10,025 km	MAG-VLF	
St-Bruneau	11,250 km		
St-Eugène	11,0 km		

TABLE 2
DRILL HOLES
January & February 1994
TEMISCAMINGUE PROJECT
(KWG, CHARLIM, SPIDER)

	TOTAL DEPTH	CASING			
B-94-01	321'	15'	L - 1100 E	P - 200 N	B
E-94-02	173'	4,3'	L - 600 E	P - 425 N	E
D-94-03	322'	8'	L - 300 W	P - 510 S	D
L.H.-94-04	330'	51'	L - 1500 E	P - 150 S	L.H.
NDN-94-05	330'	50'	L - 400 W	P - 250 N	1
2 S-94-06	330'	12'	L - 3100 W	P - 540 N	2 S
2-94-07	330'	21,5'	L - 200 W	P - 1320 N	2 N
2-94-08	Not drilled yet				
NDN-94-09	400'	120'	L - 600 W	P - 100 N	1
NDN-94-10	330'	62'	L - 600 W	P - 250 N	1
NDN-94-11	307'	120'	L - 900 W	P - 500 N	1
ONT-94-12	330'	2'	L - 700 E	P - 700 S	3
GL-94-01	460'	8'	L - 925 E	P - 750 S	GL
GL-94-03	460'	8'	L - 700 E	P - 737,5 S	GL
GL-94-04	526'	4'	L - 1200 E	P - 750 S	GL
MON-94-01	330'	0'	L - 400 W	P - 100 N	Monopros

TOTAL: **5 279'** **485,8'**
(3 833' diamond exploration)
(1 446' gold exploration)

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TABLE 3

(feet)

DIAMOND PROJECT										
Hole no.	Dip	From	To	Rock Unit	From	To	Rock Unit	From	To	Rock Unit
B-94-01	-90	0	15	Overburden	15	197	Diorite	197	321	Mafic Volcanics & Diorite
E-94-02	-90	0	4,3	Overburden	4,3	173	Granite			
D-94-03	-90	0	8	Overburden	8	54	Granite & Andesite	54	96	Granite & Diorite
L.H.-94-04	-90	0	51	Overburden	51	210	Gabbro	210	330	Granite
NDN-94-05	-90	0	50	Overburden	50	330	Kimberlite			
2 S-94-06	-90	0	12	Overburden	12	330'	Amphibolite & Granite (Magnetite)			
2-94-07	-90	0	21,5	Overburden	21,5	330'	Amphibolite & Granite (Magnetite)			
NDN-94-09	-90	0	120	Overburden	120	190	Limestone & Metasedimentary rock	190	343	Kimberlite
NDN-94-10	-90	0	62	Overburden	62	204' 252 330	Kimberlite	204	252	Metasedimentary rock
NDN-94-11	-90	0	120	Overburden	120	223	Kimberlite	223	307	Metasedimentary rock
ONT-94-12	-90	0	2	Overburden	2	330	Conglomerate (2 - 3 % Py + Po)			
MON-94-01	-90	0	0	Overburden	0	330	Gabbro (2 - 5% Magnetite)			

GOLD PROJECT										
Hole no.	Dip	From	To	Rock Unit	From	To	Rock Unit	From	To	Rock Unit
GL-94-01	-50	0	8	Overburden	8	249	Granite	249	372	Felsic Tuff
GL-94-03	-50	0	8	Overburden	8	460	Intermediate Volcanics			
GL-94-04	-50	0	4	Overburden	4	180	Diorite	180	245	Intermediate Volcanics

The first target to be tested was on grid B 2,5 km north of Laverlochère. Drill hole B-94-01 intersected and alternance of diorite and mafic volcanics containing trace of magnetite.

A second magnetic anomaly has been tested on grid E 5,5 km SE of Fugèreville. The drill hole cut through granitic rock which appeared slightly magnetic.

The third drill hole located on grid D just west of Lac Honorat encountered an alternance of granitic rock and dioritic rock.

Drill hole L.H.-94-04 was put down on grid Lac Honorat (few meter south of Lac Honorat) and 50 meters east of an old Monopros' hole. The hole was to test a circular magnetic anomaly that appeared to be centered east of the Monopros' hole. The hole intersected a gabbro from 51 to 209,5 and a granite from 209,5 to 330'.

Drill holes NDN-94-05, NDN-94-09, NDN-94-10, NDN-94-11 intersected diatreme kimberlite. They were drilled on grid 1, 5 - 6 kilometers north - north - west of Notre-Dame-du-Nord in the Temiscamingue Area. NDN-94-05 was put down to test the main anomaly of the TROÏKA anomalies and intersected kimberlite with abundant limestone fragments and several indicators minerals showing the potential of a diamantiferous kimberlite.

NDN-94-09, NDN-94-10 and NDN-94-11 cut through metasedimentary rock and kimberlite.

Goulet & Lamarche Explorations Inc. (contractor for the Témiscamingue project) sent two drill core of the Troïka kimberlite to Mr. Don MacFadyen in Toronto and Min Scan Consultants Ltd for visual evaluation:

"Visual Evaluation of Two Drill Core Samples"

Date: April 13th. 1994.

Two samples of drill core were received from Mr. Don MacFadyen for identification. They were marked NDN 94.05 155' and NDN 94.05 177'; they appeared to be samples of the same rock type.

The matrix is a dark, cryptocrystalline mass, probably composed mainly of serpentine. Shadowy remnants of altered mineral grains and fine xenoliths are visible within the dark matrix.

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Sub-rounded, pale green olivine phenocrysts, ranging from 2,0 mm up to 10 mm in diameter are abundant throughout the rock and constitute about 10 percent of its volume. These olivine phenocrysts are generally fresh. There are also many finer olivine grains, less than 2 mm in diameter scattered throughout; partial replacement of these finer olivine grains by serpentine has occurred in many cases.

Lenticular ilmenite nodules up to 0,8 mm in length are found throughout the rock in minor amounts; the ilmenite is fresh and has sharp contacts against the enclosing matrix.

A few garnets are present in grains up to 3 mm in diameter. They are purplish-red in colour, suggesting they may be pyrope with a favourable chemical composition; there are rare subhedral grains of bright green chrome diopside up to 2mm in width.

Biotite laths with sub-rounded terminations are common throughout; they range up to 5 mm in length and appear to be generally fresh.

Subrounded to subangular xenocrysts, ranging up to 20mm in diameter, constitute about 5 percent of the volume of the rock - most of them appear to be fragments of fine grained carbonates which have been altered to varying degrees by the enclosing intrusive rock.

This rock appears to be a diatreme facies kimberlite. Examination of thin sections should confirm this identification; probe analyses of selected grains will help evaluate its economic favourability."

Following the discovery, two anomalies were drilled on grid 2 of the spider 2 project. 2 S-94-06 and 2-94-07 intersected Amphibolite which contains traces of magnetite and pyrrhotite and granitic rock.

ONT-94-12 located on grid 3 of the Spider 2 project cut through polymitic Conglomerate containing 2 to 3% pyrite and pyrrhotite.

The last drill hole of the program MON-94-01 was to test the Monopro's anomaly. Monopros kept these claim covering the anomaly for several years. The hole encountered Hornblend gabbro with 2 to 5% magnetite.

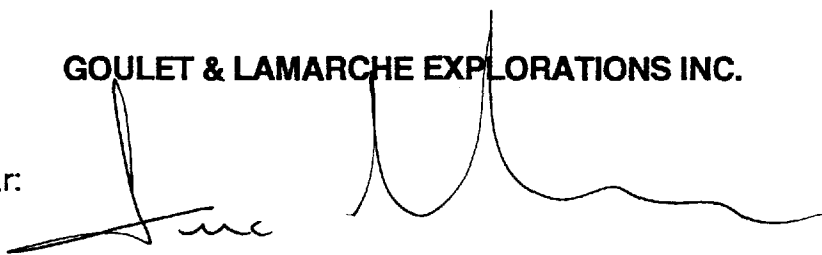
E) CONCLUSION

The 1994 winter drilling program was successful; one kimberlite pipe with two small kimberlite bodies associated were discovered. The first result of the core analysis yield 22 microdiamants on 22 kilograms of rock.

As a result of this program 500 000 \$ have been raised to complete this program by drilling hole 2-94-08 on grid 2 and to continue the diamond exploration in the Temiscamingue Area. Drill hole 2-94-08 was not drilled because of flood problem.

GOULET & LAMARCHE EXPLORATIONS INC.

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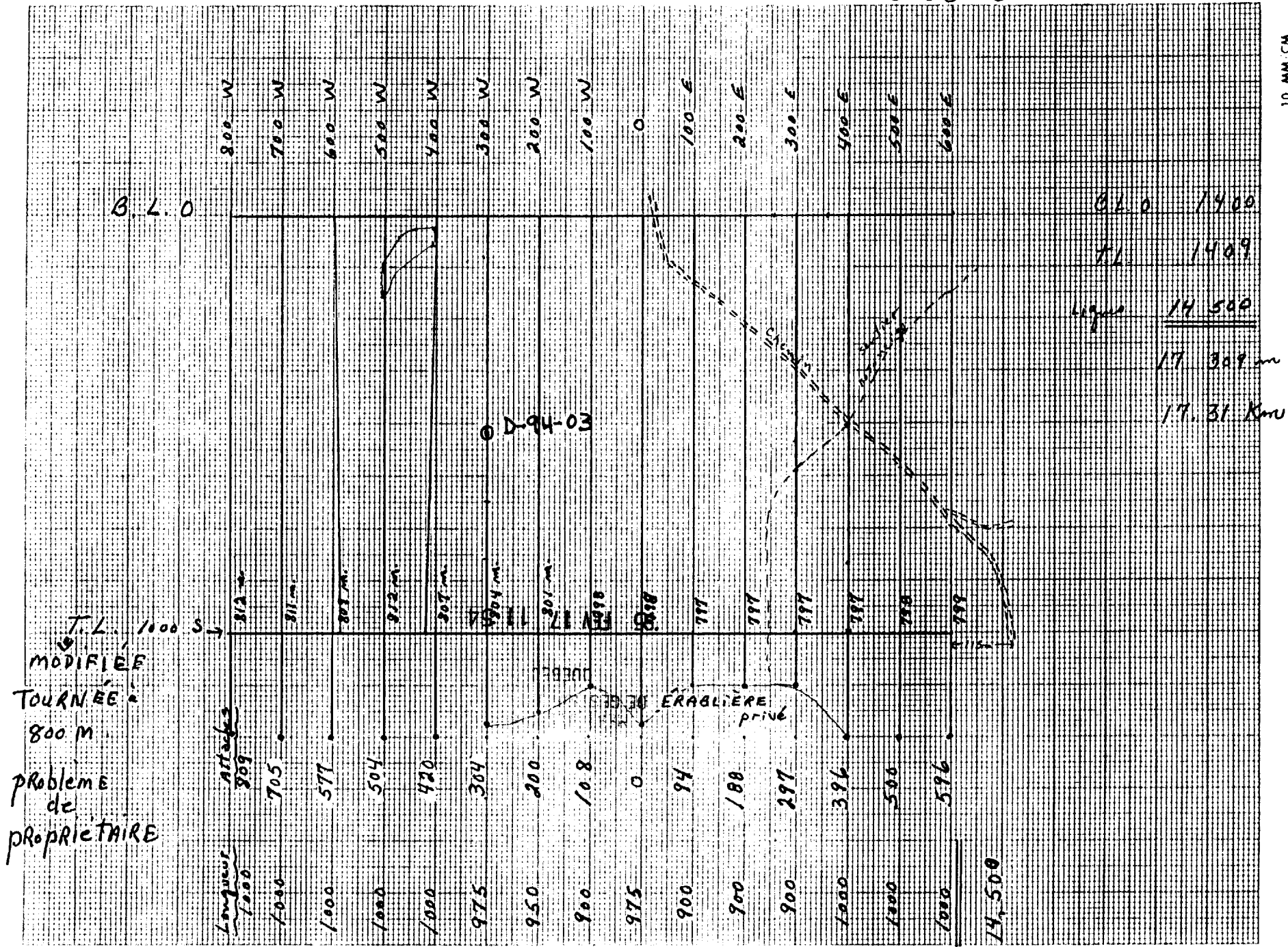


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W

GRID LAC HONORAT
(LAC CLAIRE)

N

L600+1.5
L550
L500+1.5
L450
L400+1.5
L350
L300+1.5
L200+1
L100+1
L0

1000E	402 TT 304
	401 TT 252
1100E	400 TT 203
	400 TT 152
1200E	400 TT 99
	399 TT 54
1300E	400
1400E	
1500E	
1600E	

Long ATT
709 TT 606
709 TT 501
709 TT 395
708 TT 298
706 TT 204
706 TT 100
706

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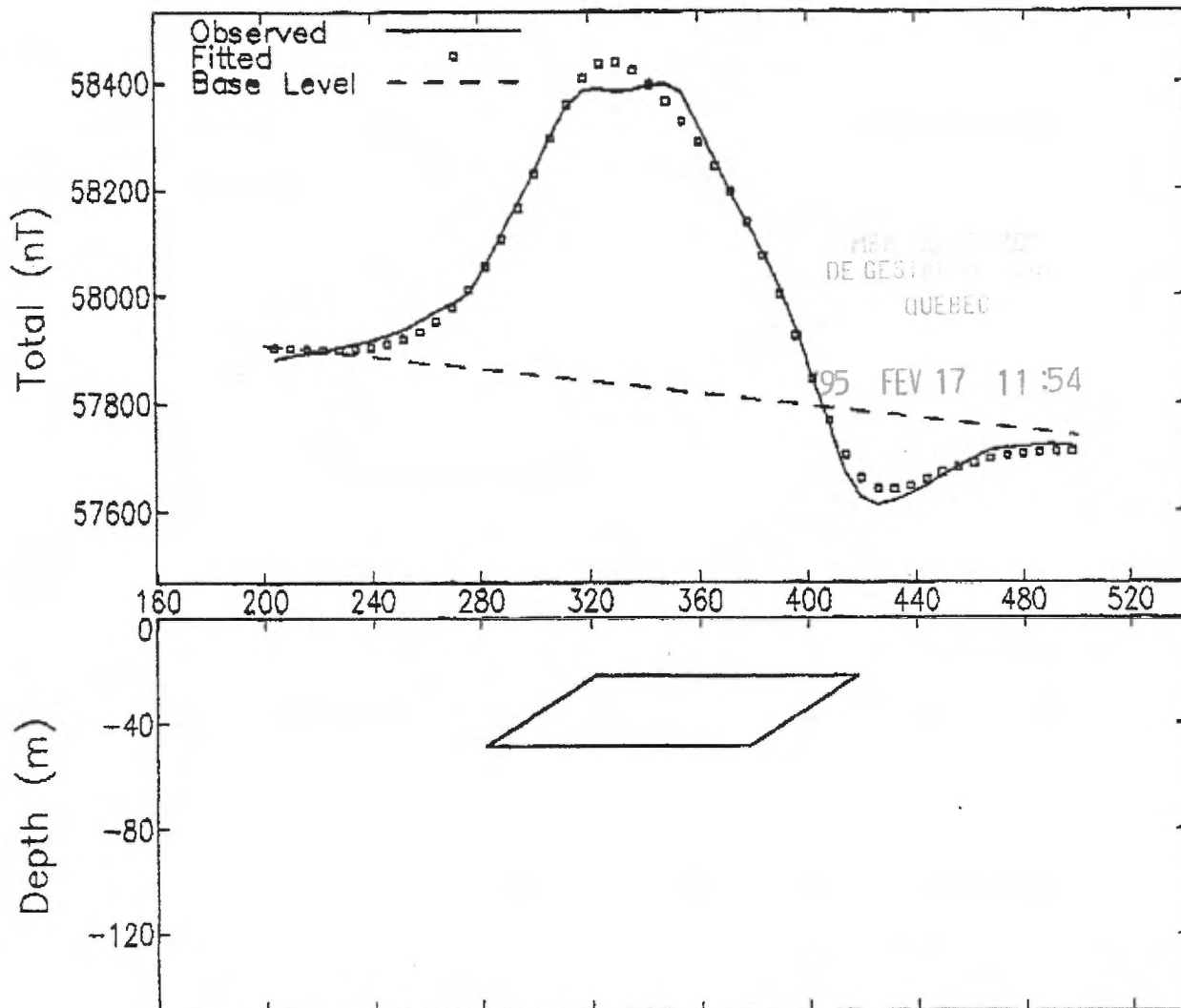
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DE GESTION
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Grid D
line 3+00W



MODEL PARAMETERS:

Model Type		Tabular2
Depth	F	21.9 m
Half Width	X	48.4 m
Half Length	X	50.0 m
Offset	X	0 m
Dip	F	146 deg
Thickness	F	26.8 m
Susceptibility	F	0.00588 emu
Remnance Ratio	X	0
Remnance Incl	X	0 deg
Remnance Decl	X	0 deg
Main Position	F	369.8942 m
Cross Position	X	0 m
Base Level	F	57813.22 nT
Base Slope	F	-.5579201 nT/m

GEOMAGNETIC FIELD:

Field Strength	60000 nT
Inclination	72 deg
Declination	-12 deg

COORDINATES:

Sensor Height	2 m
Strike Perp	0 deg
Line Direction	0 deg
Main Direction	
Main Offset	
Cross Direction	
Cross Offset	

DESCRIPTIONS DE CAROTTES

PROPRIÉTÉ: MONOPROS	LONGUEUR:	AZIMUTH:	PLONGÉE:	NIVEAU:	DIST. HOR:	SONDAGE: MON-94-01
COMPAGNIE: CHARLIM / KWG	COLLET:		90°			FEUILLE: 1 of 2
CANTON: LAVERLOCHÈRE	330'					LONGUEUR: 330'
RANG:						DÉBUT: February 1994
LOT: 25						FIN:
CLAIM: 5128261						CONTRACTEUR: Forage Val d'Or
LIGNE: L4 + 00 W						
PIQUET: 1 + 00 N						
GRILLE: MONOPROS						DÉCRITES PAR: ANTOINE FOURNIER

LONGUEUR	DESCRIPTIONS	ÉCHANTILLON				ANALYSES		REMARQUES
		NO.	DE	A	LONG.			
0	330	Hornblende gabbro, fine grained to pegmatitic, dark gray.						
		<p>The rock is generally massive, medium grained assemblage of 60 - 75% hornblend, 25 - 30% plagioclase, 2 - 5% magnetite and the remaining minerals include biotite, pyrite, interstitial quartz.</p> <p>The rock is commonly injected with granitic material introducing quartz and K-spar.</p> <p>The fine grained horizons are generally foliated at 70 ~ 85 ° C.A. and contain more biotite (~ 30%), which substitutes for hornblende.</p> <p>The pegmatitic horizons vary from widths of 6" to >20' and generally contain 5 - 10% magnetite, same pyrite in stringers and blebs, the pegmatites also contain subvertical qtz veinlets lined with Py.</p> <p>0 - 39: Medium grained hornblende gabbro. 3 pegmatitic horizons cut across at 19' (3 feet long), 23' (1 foot) and 29.5 (1.5').</p> <p>39 - 49.5: 10' interval which begins with epidote-rich pegmatic gabbro. The remainder of the segment is feldspar poor and crosscut by numerous pyrite stringers.</p> <p>49.5 - 65: Granitic injection containing foliated gabbro xenoliths.</p>						

DESCRIPTIONS DE CAROTTES

LONGUEUR	DESCRIPTIONS	ÉCHANTILLON				ANALYSES		REMARQUES
		NO.	DE	A	LONG.	Ar oz/t		
	<p>65 - 137.5: Medium grained gabbro massive to slightly foliated in the finer grained facies. Between 114 and 137.5 the rock is dioritic in composition.</p> <p>137.5 - 194: Pegmatitic gabbro. A few subparallel qtz veinlets lined by Py run subparallel to C.A.</p> <p>- A dioritic injection between 159' and 168'.</p> <p>194 - 212.5: Diorite.</p> <p>212.5 - 266.5: Pegmatitic gabbro with a few minor (<11) injections of diorite and a few quartz-py veinlets.</p> <p>266.5 - 330: hornblende gabbro.</p>							

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DUREE

DESCRIPTIONS DE CAROTTES

PROPRIÉTÉ: West of Lac Honorat	LONGUEUR	AZIMUTH	PLONGÉE	NIVEAU	DIST. HOR.	SONDAGE: D-94-03
COMPAGNIE: KWG / CHARLIM	COLLET		-90°			FEUILLE: 1 of 1
CANTON: Laverlochère	322'					LONGUEUR: 322'
RANG: XIII and XIV						DÉBUT: February 1994
LOT: 10 to 13						FIN:
CLAIM: 5077353 to 5077360						CONTRACTEUR: Forage Val d'Or
LIGNE: L - 300 W						
PIQUET: P - 510 S						
GRILLE: D						DÉCRITES PAR: LUC LAMARCHE

LONGUEUR		DESCRIPTIONS	ÉCHANTILLON				ANALYSES		REMARQUES
			NO.	DE	A	LONG.			
0'	8'	Overburden and casing.							
8'	20'	Andesite, greenish gray, fine grained, weak foliation at 10 - 20° C.A., chloritized, epidotized and slightly hematized. Lower contact at 5 - 10° C.A.							
20'	54'	Felsic dyke, probably of granitic composition, altered, fine grained, brownish gray. The rock is very often fractured.							
54'	96,5'	Hybrid phase of granite in contact with a dioritic rock, altered, grayish green to reddish green, fine grained, the rock is often fractured along the core. Lower contact at 10° C.A.							
96,5'	113,5'	Granitized basic rock probably of dioritic composition, slightly foliated from 10 to 20° C.A., grayish green, fine grained with trace to 1% fine pyrite, locally 5% over few inches. Lower contact at 10° C.A.	11713	97	98	1,0	95 FEB 17 11:54	QUEBEC	
113,5'	322'	Same as 6 - 20' but rare hematization. 294 - 308,5 dyke of diorite, chloritized, 10° C.A. End 322'.							

DESCRIPTIONS DE CAROTTES

PROPRIÉTÉ: Lac Honorat	LONGUEUR	AZIMUTH	PLONGÉE	NIVEAU	DIST. HOR.	SONDAGE: L.H. 94-04
COMPAGNIE: KWG / CHARLIM	COLLET		-90°			FEUILLE: 1 of 1
CANTON: Laverlochère	330'					LONGUEUR: 330'
RANG: XIV						DÉBUT: February 1994
LOT:						FIN:
CLAIM: 5077388 5077364						CONTRACTEUR: Forage Val d'Or
LIGNE: L - 1500 E						
PIQUET: P - 150 S						
GRILLE: L.H.-94-04						DÉCRITES PAR: LUC LAMARCHE

LONGUEUR		DESCRIPTIONS	ÉCHANTILLON				ANALYSES		REMARQUES
0'	51'		NO.	DE	A	LONG.			
		OVERBURDEN AND CASING.							
	51'	209,5'							
		Gabbro, massive, black, coarse grained, chloritized. Gradually the rock becomes fine grained from 127'. Contact with granite at low angle to C.A.							
	209,5'	330'							
		Altered granite, massive, fine to medium grained. The contact zone from 209,5 to 284' is brownish gray to medium brown. 284 - 330' is reddish brown and less altered than 209,5 - 284'. End 330'.							

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DE GESS...
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