

GM 59612

DIAMOND DRILLING PROGRAM, CANIAPISCAU PROPERTY

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Énergie et Ressources
naturelles

Québec 



**Diamond Drilling Program
Caniapiscau Property**

April 2002

Tyson Birkett, Eng.

MRN-GÉOINFORMATION 2002

GM 59612

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SUMMARY

Two exploration drill holes for a total length of 178 m were completed to test a prominent magnetic anomaly in the area of Lake Gayot. The rocks encountered in the drilling were metamorphosed peridotites, dominantly olivine, deformed and variably retrogressed to assemblages of anthophyllite, serpentine, talc and magnetite. No sulphide or other oxide minerals were noted in the drill core.

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INTRODUCTION

Broad-scale mineral exploration supported by an airborne magnetic and radiometric survey had identified a prominent magnetic anomaly some 16 km east of Lake Gayot in map sheet 23M/10. A brief geological examination of the property revealed a large area of granite surrounding a small lake, with the magnetic response under the lake. A drill program was planned to seek an explanation for the magnetic response.

The work was carried out with the assistance of Christian Jalbert of SOQUEM INC., Roger Gamache, camp cook, from Virginia Gold Mines, the personnel of Chibougamau Diamond Drilling, and helicopter pilot Adam Walsh from Canadian Helicopters Ltd.

LOCATION AND ACCESS

The Caniapiscau property lies some 100 km north of the Caniapiscau reservoir (Figure 1).

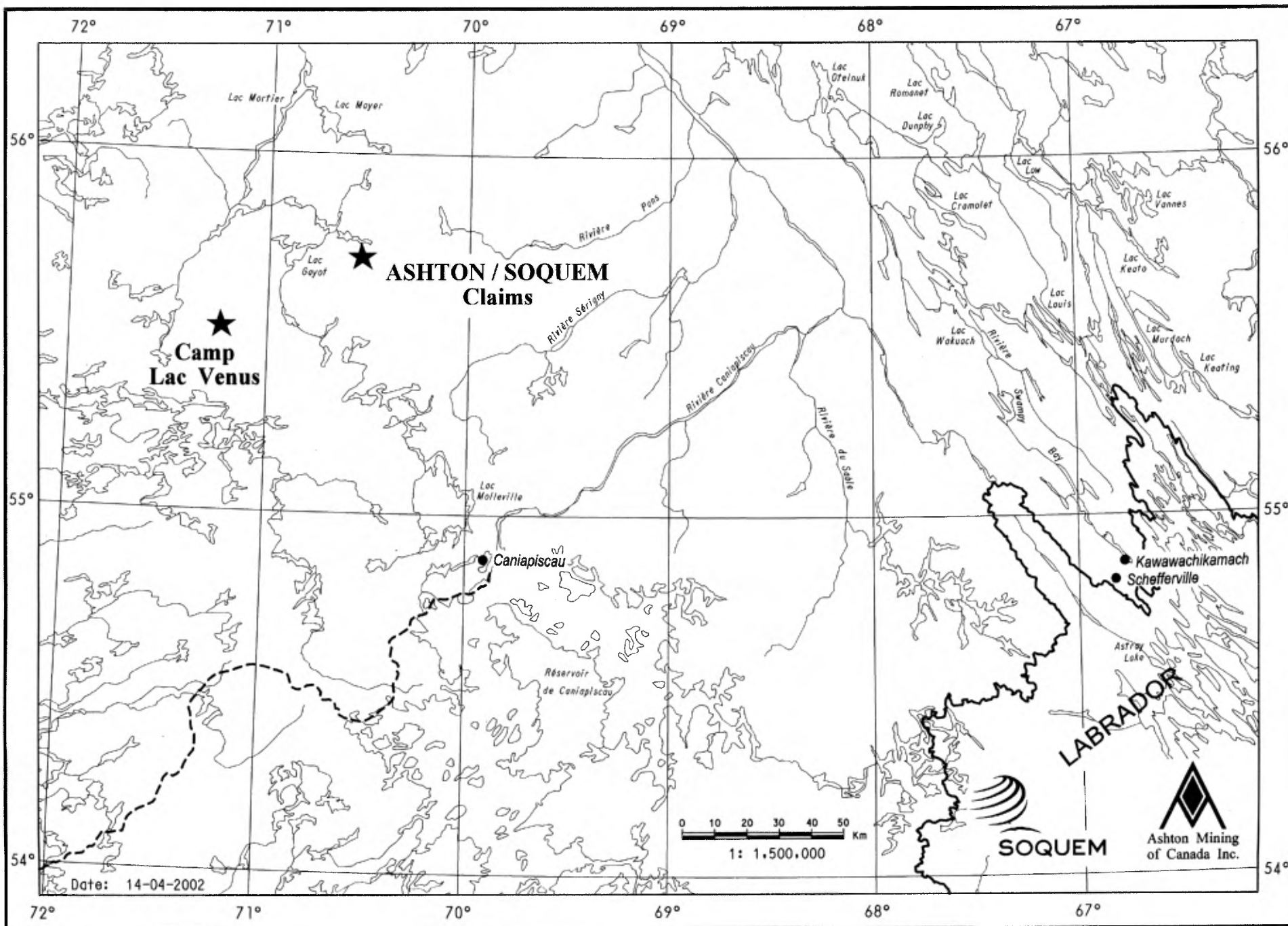
The property is accessible by air. The nearest float plane base, open during the summer months, is at Caniapiscau. The most practical means of working the property is by helicopter. For the work of this report, the team was based at the exploration camp of Virginia Gold Mines at Lake Venus, some 48 km south-west of the property.

PROPERTY DESCRIPTION

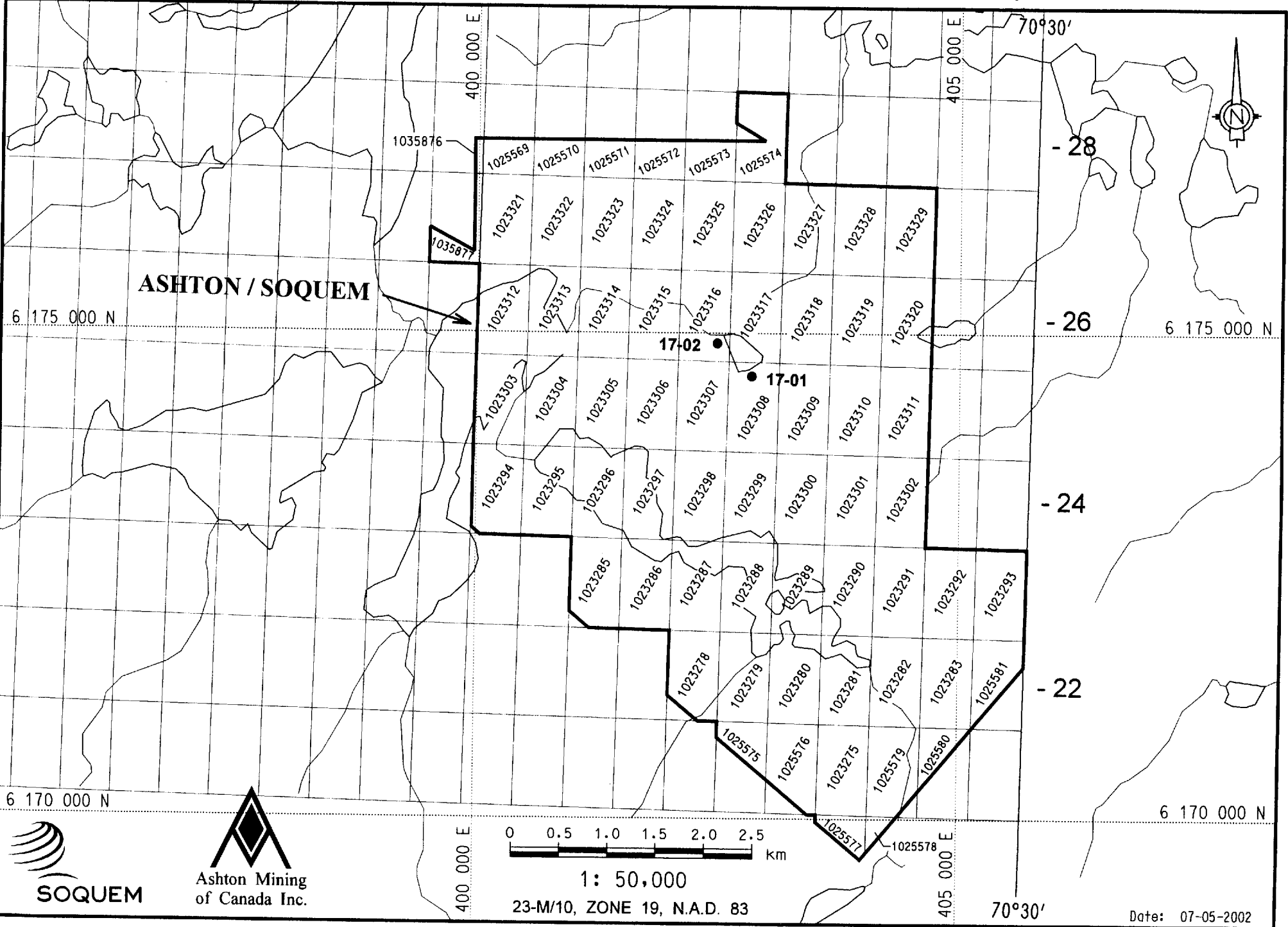
The exploration property (Figure 2) is formed by 67 claims (entire or partial cells) within NTS Sheet 23M/10.

PREVIOUS WORK

There is no record of previous mineral exploration on the property. The area was included in an airborne magnetic and radiometric survey carried out by Ashton – SOQUEM in 1999 (Lucas 1999). Geological mapping by the Ministère des Ressources naturelles (Gosselin & Simard 1998) indicates that the area is underlain by granitic rocks. Preliminary geological observations and soil sampling were conducted in 1999. An initial ground and lake-borne magnetic follow-up survey was conducted by Ashton – SOQUEM in the summer of 2000. A detailed ground magnetometer survey carried out by Abitibi Geophysics under contract to Ashton – SOQUEM in April of 2002 (Bérubé 2002) allowed selection of the drill hole locations.



- 40 - 45 - 50 - 55 - 60 -



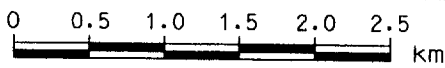
ASHTON / SOQUEM

6 175 000 N

6 175 000 N

6 170 000 N

6 170 000 N



1: 50,000

23-M/10, ZONE 19, N.A.D. 83

70°30'

Date: 07-05-2002

CURRENT PROGRAM

Two exploration holes were drilled on the property (Figure 3) for a total of 178 m. Hole number 17-01 was placed to the south of the lake, and directed north-west at -80° . Hole number 17-02, collared west of the small lake, was directed to the east at -50° . Drill logs are presented in Appendix 1.

RESULTS

Both drill holes encountered barren metamorphosed peridotite, variably retrometamorphosed. The earliest visible fabric is formed by moderately foliated, fine grained, aligned olivine. This texture is variably overprinted and replaced by rosettes of anthophyllite, pervasive serpentine and locally talc. The retrograde metamorphism is accompanied by the crystallisation of magnetite which makes the rock strongly magnetic except in areas which are rich in talc (Figure 4). In these zones, which are associated with stronger late deformation and poor core recovery, greater fluid flow has apparently removed iron from the system at the scale of our investigation. The profiles of magnetic susceptibility were compiled from data measured at each meter on the core with a Terraplus KT5 susceptibility meter and corrected for geometry using an extrapolation of the suggested values provide with the instrument extended to the 3.5 cm diameter of BQ core (figure 5).

DISCUSSION

The rocks recovered by drilling explain the magnetic response of the earlier surveys. Hole 17-01 investigated an area of more intense magnetism than 17-02, and the relative results are consistent with the measured susceptibility profiles.

CONCLUSIONS

The magnetic anomaly is caused by the presence of metamorphosed peridotite with accessory magnetite. No other minerals of economic interest were observed in the drill cores.

RECOMMENDATIONS

Further exploration of this property must be based on geological mapping of the available outcrops and observations of indications of the direction of glacial transport of the tills which occur there.

Figure 3

Magnetic survey with drill hole locations

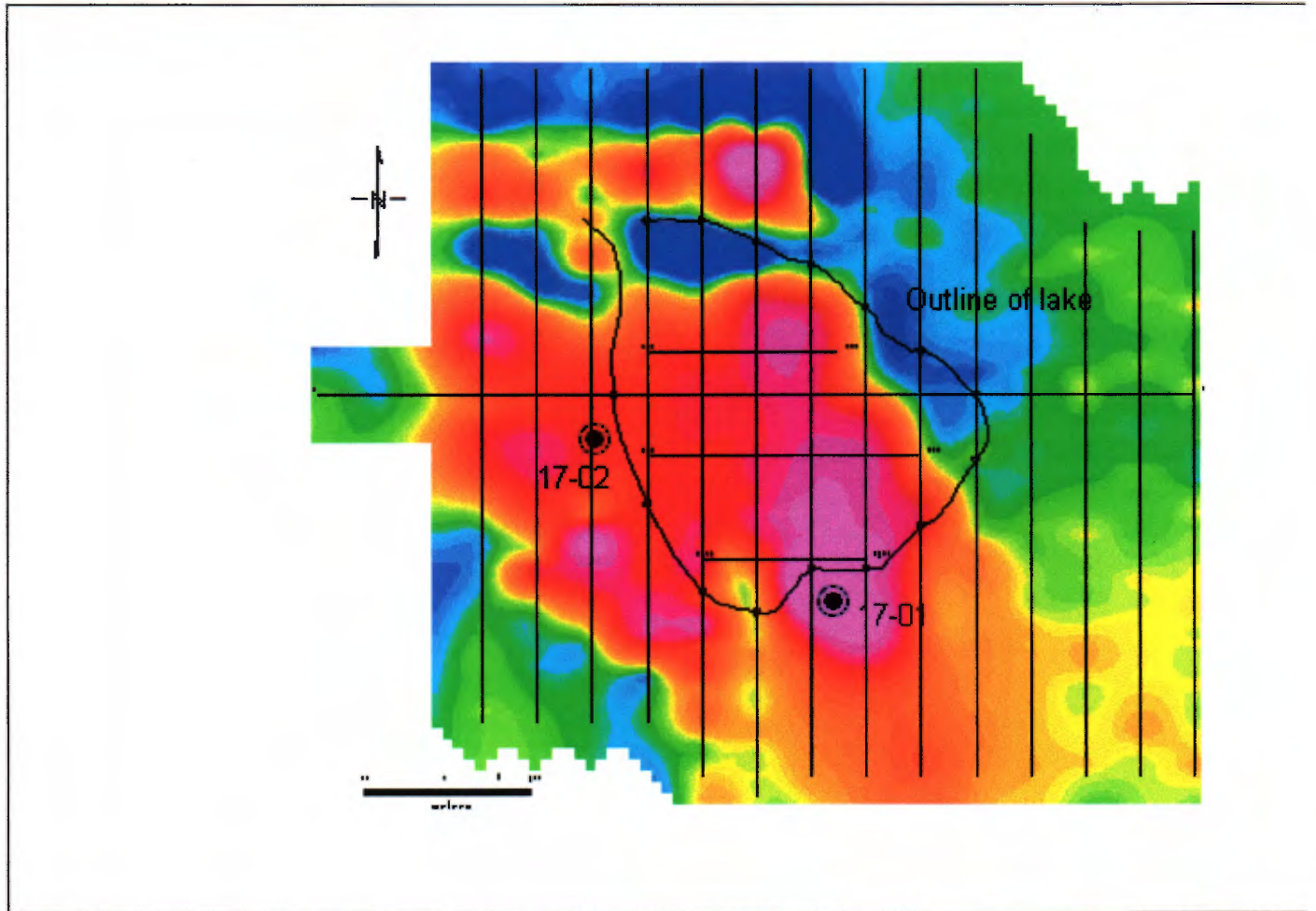
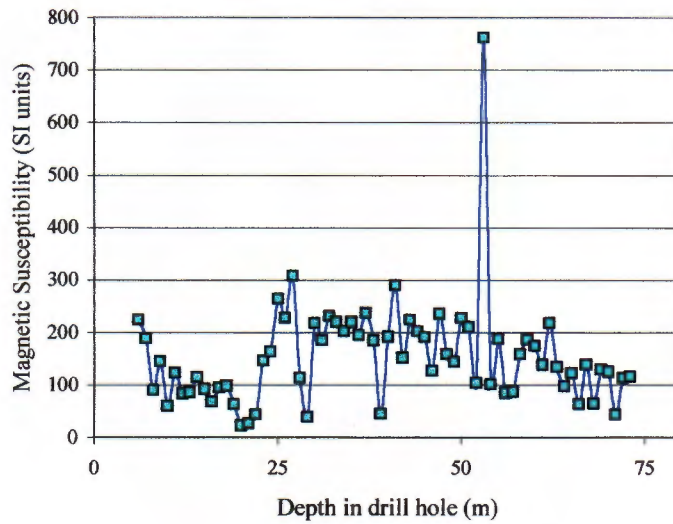


Figure 4

Magnetic Susceptibility Profiles, DDH 17-01 and 17-02

Magnetic Susceptibilities 17-01



Magnetic Susceptibilities 17-02

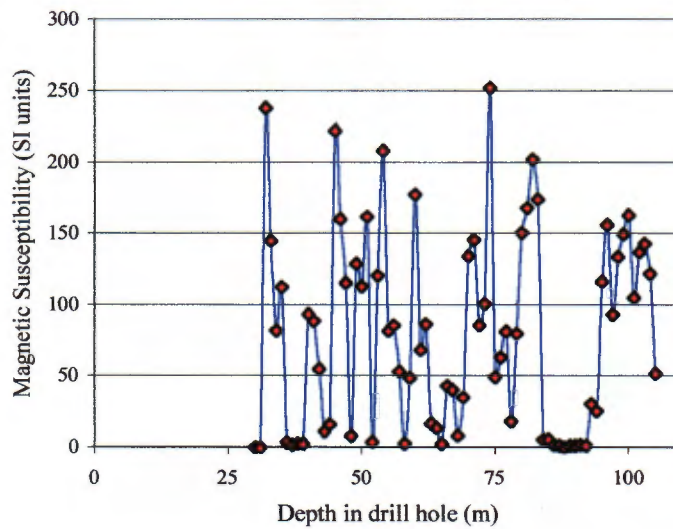
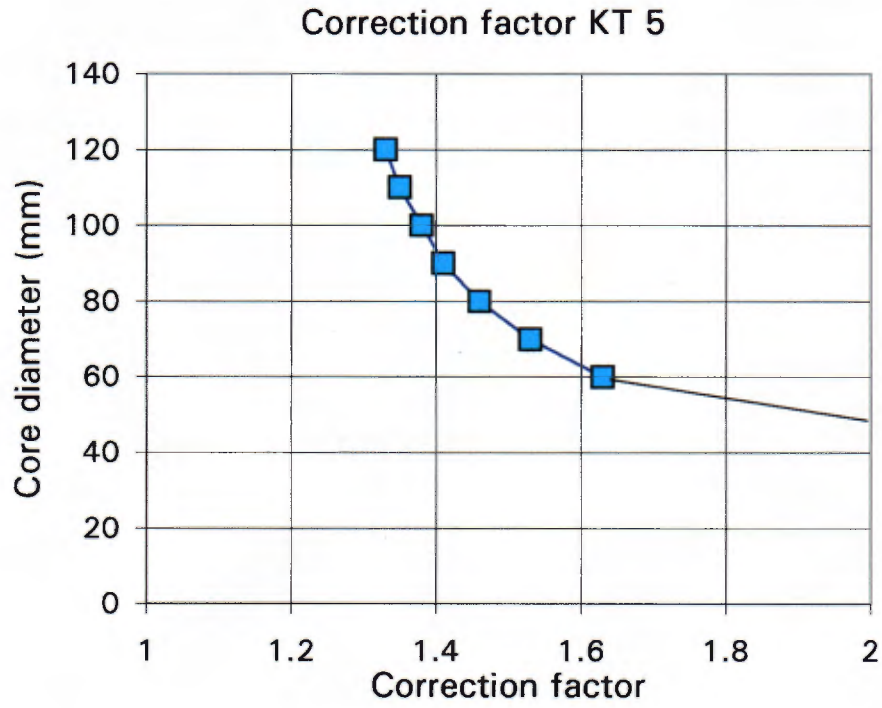


Figure 5

Correction curve for KT5 susceptibility meter



BIBLIOGRAPHY

BÉRUBÉ, P. (2002): Logistical report, Line Cutting and Mag Survey, Caniapiscau Property, Northern Québec, Canada on behalf of Ashton- SOQUEM JV, 02-N688, April 2002, *Abitibi Geophysics*, 15 p.

BIRKETT, T.C. (2000): Rapport des travaux de terrain 1999, Projet Caniapiscau, *SOQUEM, Inc.* 11 p.

GOSELIN, C. & SIMARD, M. (1998): Lac Gayot (23M) Ministère des Ressources naturelles, Québec, Carte SI-23M-C2G-98K

LUCAS, R.T. (1999): Assessment report, field inspection of magnetic anomalies and geochemical survey, northern Quebec permits 1379 and 1380, *SOQUEM Inc.*

SOQUEM Inc.

JOURNAL DE SONDAGE

Propriété: CANIAPISCAU

Trou no: 17-01	Zone no: 19U	Contracteur: Forages Chibougamau Ltée.	Débuté le: 20/04/1902
Canton :			Terminé le: 21/04/1902
Lot :	Rang :	Claim no: 1023308	
Niveau :	Section:	Lieu de travail:	
Coordonnées au collet	Ligne : 0+00	Latitude: 6174427.00mN	Azimat: 335° 0' 0"
Système de référence: NAD 27 Z19	Station: 0+00	Longitude: 402858.00 mE	Inclinaison: -80° 0' 0"
		Élévation: 0.00	Longueur: 73.00
Arpenté par:			
Tests de déviation	Profondeur	Inclinaison	Az Corrigé
	-		-
Remarques :		Débit d'eau:	Bouchon:
		Cimenté :	Dimension de la carotte: BQ

Journal par: Tyson Birkett Eng.

Rédigé le: 21/04/1902

Trou no: 17-01

SOQUEM Inc.

JOURNAL DE SONDAGE

Propriété: CANIAPISCAU

Trou no: 17-02	Zone no: 19 U	Contracteur: Forages Chibougamau Ltee	Débuté le: 18/04/1920
Canton :			Terminé le: 20/04/1902
Lot :	Rang :	Claim no: 1023316	
Niveau :	Section:	Lieu de travail:	
Coordonnées au collet	Ligne : 0+00	Latitude: 6174570.00mN	Azimut: 90° 0' 0"
	Station: 0+00	Longitude: 402650.00 mE	Inclinaison: -50° 0' 0"
Système de référence: NAD 27 Z19		Élévation: 0.00	Longueur: 105.00
Arpenté par:			
Tests de déviation	Profondeur	Inclinaison	Az Corrigé
	-		-
Remarques :			
	Débit d'eau:	Bouchon:	
	Cimenté :	Dimension de la carotte: BQ	

Journal par: Tyson Birkett ing.

Rédigé le: 20/04/1902

Trou no: 17-02

