010

REPORT ON THE HARKER-GARRISON PROPERTY

FOR

LYNX-CANADA EXPLORATIONS LTD

by

Winfried Brack, Ph.D., geologist

JANUARY, 1987

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SUMMARY

The Harker-Garrison property is located in the townships of Harker and Garrison, approximately 42 kilometres east of Matheson, Ontario, and about 2 kilometres south of highway 101. The property lies just south of the Porcupine-Destor fault, and is underlain by mafic volcanics of the Kinojevis Group, within the Abitibi volcanic greenstone belt. The closest gold deposit of economic importance is the McDermott deposit, approximately 10 kilometres east of the property.

Previous exploration work completed on the property was executed by Shunsby Gold Mines Limited in 1946-49 and consisted of stripping, trenching, magnetic surveying and diamond drilling totalling 4005 feet in 9 holes on the "Shunsby Gold Occurrence". In 1984, Lynx-Canada Explorations Limited completed VLF-EM and magnetometer surveys and geological mapping over the entire property.

In 1986, Lynx-Canada Explorations Limited subsequently continued exploration. Geological mapping, an induced polarization survey and diamond drilling totalling 934 metres in 4 holes was executed.

The diamond drilling confirmed the low grade and erratic distribution of gold mineralization that was exposed on surface. The gold occurs in narrow pyrite-enriched zones within and adjacent to quartz veins. The grades are marginal, with a maximum of 1.38 g/ton Au over 1 metre in D.D.H. HG-86-3 and maximum of 3.5 g/ton in a surface grab sample.

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The diamond drilling program is considered to have reduced the potential of the property for economic gold mineralization. No further work is recommended at the present time.

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1.0 INTRODUCTION

This report presents an evaluation of all available information concerning the Harker-Garrison property, as well as a description and synthesis of the 1986 exploration program carried out by La Société en Commandite Minière Lynx Ltée (1986).

The report is based upon data from the Ontario Ministry of Mines and Northern Affairs assessment work files, maps and reports of Val d'Or Géophysique Ltée, records of Lynx Canada Explorations Ltd and the author's personal field observations and diamond drill core descriptions.

1.1 PROPERTY DESCRIPTION

The property consists of 24 contiguous, unpatented claims in Harker and Garrison Townships, District of Cochrane, Larder Lake Mining Division, Ontario. The claim numbers are as follows:

Harker Township:	L765892 to 765900 inclusive
Garrison Township:	L765901 to 765915 inclusive

The claims are held by Lynx-Canada Explorations Ltd. under option from Jack Stoch Geoconsultants Services Ltd. The option terms are as follows: (1) $5,000 cash on 1st Feb. 1985; (2) $15,000 cash on 1st Feb. 1986; (3) $15,000 cash on 1st Feb. 1987; (4) a 2% net smelter returns royalty on production.

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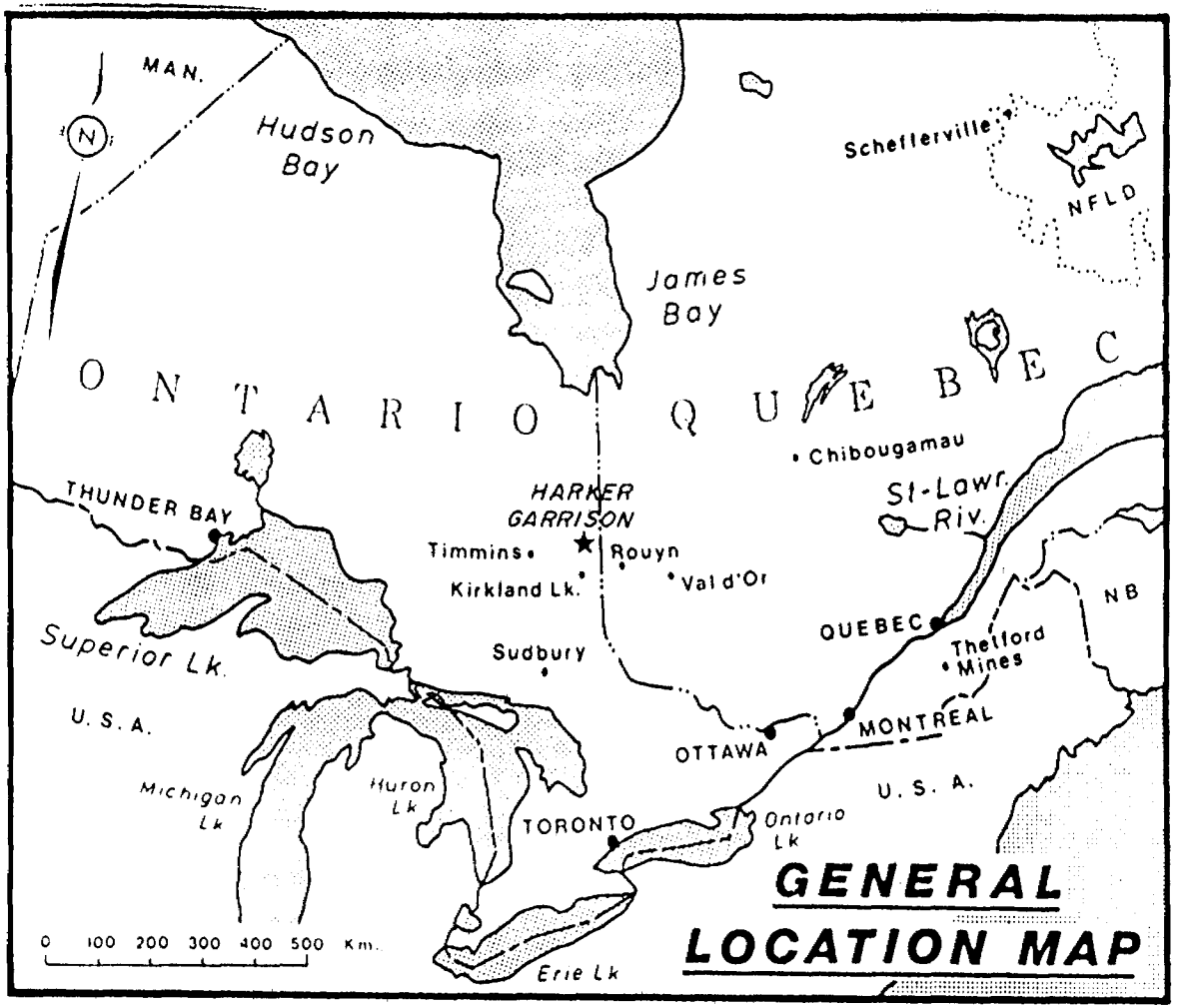

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HARKER GARRISON

GENERAL LOCATION MAP

DATE: Jan 87

FIGURE NO. - 1 -

Before the commencement of the 1986 exploration program, Sparton Resources Inc. held a 50% working interest in the property, with Lynx-Canada Explorations holding the remaining 50%. Sparton Resources Inc. chose not to participate in the 1986 work, and its interest will be diluted on a pro rata basis. The 1986 program was carried out by La Société en Commandite Minière Lynx Ltée. (1986) for Lynx-Canada Explorations Ltd.

1.2 LOCATION AND ACCESS

The Lynx-Sparton property lies 2 kilometres south of highway 101, approximately 42 kilometres east of Matheson and 27 kilometres west of the Ontario-Quebec border. The claims straddle the boundary between Harker and Garrison Townships.

Access is by a bush road which runs south from highway 101 across the west-central part of the property.

The topography is hilly on the east part of the property where there is a high bedrock ridge. This slopes down in a westerly direction to the valley of Thackeray Creek, which runs just outside the property boundary. Large parts of the property were burned in 1982. Secondary growth of alder and poplar is common. Some areas have been reforested with spruce.

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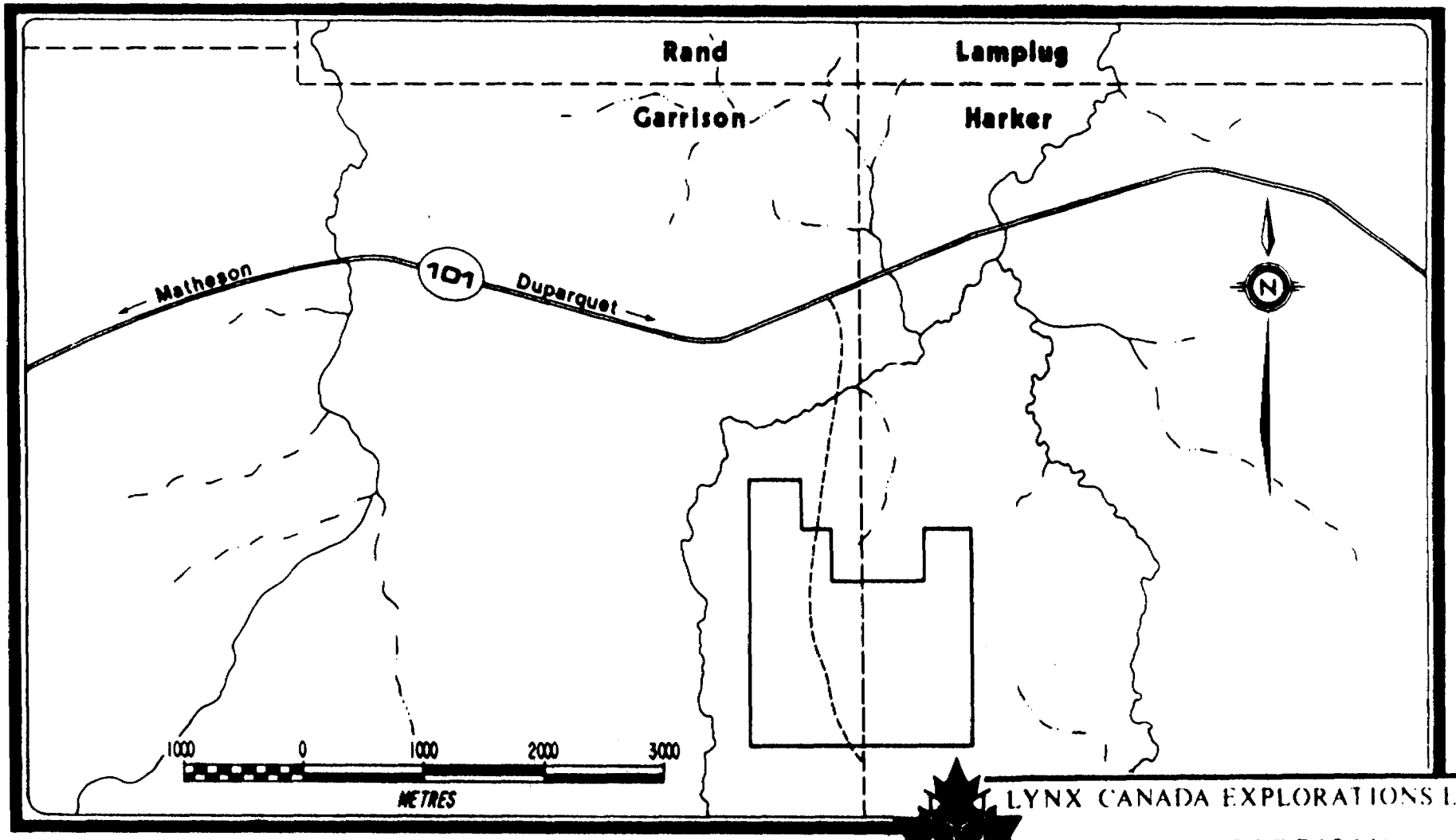

LYNX CANADA EXPLORATIONS LTD.

HARKER GARRISON

PROPERTY LOCATION MAP

DATE: Jan. 87

FIGURE No. - 2 -

1.3 PREVIOUS WORK ON THE LYNX-SPARTON PROPERTY

1918 Reconnaissance mapping of the Abitibi-Night Hawk gold area was completed by the Ontario Bureau of Mines. O.B.M. (Vol. XXVIII, 1919, pt.2, pp. 4, 6, 27, 33, 44, 51, 52, 64 and Map #28b).

1924 The Ontario Department of Mines re-examined the area as part of a survey of the Lightning River gold area (O.D.M. Vol. XXXIV, 1925, pt. 6, pp. 86, 91, 93, 97, 98 and Map #34a).

1946-49 Shunsby Gold Mines Limited completed a preliminary work program of stripping, trenching, magnetic surveying, and diamond drilling totalling 4,005 feet in 9 holes on the "Shunsby Occurrence". This occurrence consists of quartz stringers in a zone 4 feet wide and 130 feet long in pyritiferous mafic volcanics. The drill core logs report only the lithologies intersected and do not document assay results.

1949 Mapping of Garrison Township was completed by the Ontario Department of Mines at a scale of 1"=1000' (O.D.M. Vol. LVII, pt. 4, and map 1969-1)

1951 Mapping of Harker Township was completed by the Ontario Department of Mines at a

scale of 1"=1000' (O.D.M. Vol. LX, pt. 7, and map 1951-4).

1984 Lynx-Canada Explorations Ltd. established a cut grid and carried out VLF-EM and magnetometer surveys and geological mapping over the entire property. Anomalous areas were stripped and sampled.

The magnetic survey indicates a north to north-northeast strike. Broad areas of low magnetic relief in the west and northwest parts of the property suggest granitic material at depth. A series of anomalies in the centre of the property were found to be associated with locally gold-bearing mafic volcanics. Several VLF-EM anomalies have been located although not investigated. A geological map was produced at a scale of 1:2500. Rock sampling results showed a range of gold values from trace amounts to 0.104 oz/t Au, the majority of values being in the range of 0.01 oz/ton Au to 0.05 oz/ton Au.

1.4 CURRENT WORK ON ADJACENT PROPERTIES

The Murphy-Garrison gold deposit 5 kilometres to the southwest of the Lynx/Sparton property lies at the southwest margin of the Garrison pluton. From 1974 to

1982 approximately 300,000 tons grading 0.066 oz/ton Au were mined from an open pit by Kerr-Addison Mines Ltd. It is estimated that there are underground reserves of 85,000 tons of ±0.3 oz/ton Au. The geological environment of the deposit is comparable to the Lynx-Sparton property. The gold mineralization occurs in silicified, pyritized, brittle, quartz-filled fractures with brecciation common. Quartz veins in the basalt have pyritiferous alteration halos which contain the gold. These halos are brown to pale grey and are confined to the margins of the quartz veins (Cherry 1982).

Adjacent to the northeast boundary of the Lynx-Sparton property the Neal-Harker project has located some indications of gold mineralization. The gold values become progressively higher towards the volcanic-syenite contact located at the west corner of the Neal-Harker property. Within the altered syenite, fractures filled by quartz and carbonate with some traces of pyrite carried up to 0.086 oz/ton Au over 2 feet.

Grandad Resources Ltd. (1984) investigated an area south and southeast of the Lynx-Sparton property. The ground magnetometer survey outlined two zones of probable interflow sediments; the north and the central zones, indicated by magnetic lows. The central zone is believed to be the extension of the McDermott gold deposit interflow horizon. Geochemical sampling (humus, soil) of this zone indicated several anomalous areas with gold values up to 6 times background. The north zone which may extend across the southeast corner of the Lynx-Sparton property was regarded as a low priority target for further investigation because there

was only one weakly anomalous gold value in soil sampling in this area.

10 kilometres to the east of the Lynx-Sparton property is the McDermott deposit of American Barrick Resources Corporation and Lenora Explorations Ltd. Reserves are 2.5 million tons at 6.8 g/t Au. The gold mineralization occurs within a siliceous sedimentary horizon in the mafic volcanics, which is also the site of a deformation zone splaying off the Porcupine-Destor fault zone. Gold mineralization is associated with lenses of highly silicified breccia. Alteration consists of the introduction of pyrite, albite, calcite, and ferroan dolomite. The sedimentary horizon is marked by a distinct magnetic low.

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2.0 GEOLOGY

2.1 REGIONAL GEOLOGY

The Harker-Garrison property lies within the Abitibi greenstone belt of the Superior structural province of the Canadian Shield. All the rocks of the area are Archean in age.

The property lies close to the northern boundary of the Kinojevis volcanic group, which forms a large, east-plunging synclinorium in this area. The Kinojevis volcanics consist of a thick sequence of komatiites, tholeitic and calc-alkaline volcanics, with subordinate amounts of interbedded sediments. The volcanics are intruded by numerous plutons ranging in size from small stocks to batholiths, and ranging in composition from gabbro to granite and syenite.

The northern boundary of the Kinojevis volcanic complex in this area is defined by the Porcupine-Destor fault. This is a major structural feature extending for at least 220 kilometres east from Timmins. Numerous gold occurrences are located along it.

2.2 GEOLOGY OF THE PROPERTY

The property is underlain mainly by Archean mafic volcanics which vary in colour from dark green to grey, and in grain size from aphanitic to medium-grained. Massive, pillowed, flow-brecciated, and tuffaceous varieties are present.

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A large body of granite 4.5 kilometres in diameter, known as the Garrison pluton, lies to the west of the Lynx-Sparton property. It does not outcrop on the property, but a magnetic low in the north-western part of the grid suggests that there is an offshoot of the pluton in this area. Numerous small dykes of syenite are present, cutting the mafic volcanics. There is a north-south trending diabase dyke near the eastern property boundary.

Minor amounts of dark chert are present between the mafic flows. These interflow sediments are economically important because of their association with gold mineralization in the area.

The strike of the volcanics is north-northeast, in marked contrast to the more normal east-northeast strike in most of Harker and Holloway Townships. It is probable that this local change in strike is a consequence of disruption by the Garrison pluton.

Although there are several topographic linears on the property, there is little direct evidence of faulting. There is one shear zone trending just north of east, which runs more or less along line 6S. It was cut by drill hole HG-86-3.

At least two different alteration patterns can be distinguished on the property. The first is caused by contact metamorphism due to the Garrison pluton. It causes amphibolitization of the basalts and garnet-amphibole alteration along fractures and may also be responsible for a penetrative silicification of the volcanics. The second alteration pattern results from

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circulating hydrothermal fluids and gives rise to usually narrow zones, veinlets, stringers or hair-line fractures of epidote, chlorite, calcite, quartz and hematite. Sericite and talc alteration are observed on fractures.

2.3 MINERALIZATION

The most common type of mineralization on the property is the widespread occurrence of magnetite and pyrite. Pyrite occurs as traces, specks, stringers and fracture fillings. The pyrite concentration is usually less than 1%. Occasionally there are accumulations of pyrite as massive lenses, coarse grained masses or fine grained impregnations, but these are confined to narrow zones within a range of millimetres to decimetres and are in most cases associated with intense silicification. The pyrite seems to carry some gold since the highest assays were obtained within zones of pyrite enrichment (maximum 3.5 g/ton Au in a surface grab sample). The analysis of a pyrite enriched sample gave trace values of Ag, Cu, Zn, Pb and As. Antimony (Sb) was not detected (see sample 53154 in Appendix III). Other observed but rare occurrences of sulphide mineralization are chalcopyrite and sphalerite.

The main gold showing on the property (Shunsby gold showing) occurs in a mixture of pyritic silicified volcanics, brecciated chert and narrow flat laying quartz veins. A syenite dyke occurs adjacent to the mineralized zones; however it has no obvious influence on the mineralization in the trench area. In the

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vicinity of the mineralization there are zones of agglomeratic, spherulitic and tuffaceous volcanics. There is little evidence on surface of any significant economic potential at the Shunsby showing: the grades are low and the widths appear to be narrow.

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3. EXPLORATION PROGRAM

The 1986 exploration program consisted of geological mapping of the property, 19.5 km of induced polarization survey over selected parts of the property, and four diamond drill holes totalling 934 metres (3064 feet), as well as rock assaying for gold.

3.1 GEOLOGICAL MAPPING

The geological mapping and description of the property was performed by S.G. Carmichael. Several field visits, mapping traverses and outcrop checks, as well as resampling of the trenches by the author of this report confirmed the accuracy of the geological map. Some minor discrepancies in the outcrop locations are probably caused by the rechaining of the grid lines. The geological description of the property is given in chapter 2.2 "Geology of the property".

3.2 INDUCED POLARIZATION SURVEY

An induced polarization and resistivity survey was completed over the eastern half of the property, with some lines extending the full width of the grid.

The field measurements were made using a phase I.P. system (I.P.T-1, I.P.V-2, MG-2) manufactured by Phoenix Geophysics Ltd. The electrode configuration employed was a dipole-dipole, phase domain, (n=1, 2, 3, 4).

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The following summary is abstracted from the "Report on the Reconnaissance Induced Polarization and Resistivity Survey at the Harker-Garrison Project, Harker Township and Garrison Township, Ontario for Lynx-Canada Explorations Ltd." by Philip G. Hallof, Ph.D., P.Eng. Consulting Geophysicist.

There were several weak I.P. anomalies detected by the reconnaissance survey. There are a few definite, moderate magnitude anomalies (see Line 8S, 1+50E to 2+00E and Line 6S, 2+00E to 2+50E). The more typical anomaly is lower in magnitude (see Line 1S, 3+25W to 2+75W).

There were I.P. anomalies interpreted on each line surveyed at the Harker-Garrison Grid. These interpreted anomalies have been transferred to the plan map. As shown on map 2, it is possible to correlate most of these anomalies from line to line to form anomalous zones. A total of at least seven zones have been outlined. Some of the anomalous zones have a considerable strike length; at other locations, a fairly definite anomaly has been detected on only one line.

A few of the more definite I.P. anomalies located during the reconnaissance survey correlate with resistivity lows. Therefore, it is not surprising that some of the anomalous I.P. zones shown on map 2 correlate with electromagnetic anomalies previously detected. However, the correlation is not absolute. The sources of some of the electromagnetic anomalies must be ionic in nature. Further, the sources of some of the I.P. anomalies do not have concentrated metallic

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mineralization that is conductive enough to be an electromagnetic conductor.

Our experience has shown that gold values may be present even within zones of weak sulphide mineralization. Therefore, any of the anomalous zones shown on map 2 could be of geologic and economic importance.

Throughout much of the Harker-Garrison Grid resistivities measured for (n=1) are relatively large in magnitude. This indicates the presence of little, or no, conductive overburden.

The overburden covered areas have been interpreted on each data plot. These positions have been transferred to the plan map and correlated from line to line. The regions of thick overburden cover can be seen on map 2.

3.3 DIAMOND DRILLING

The induced polarization survey results (1986) and the results of a combined electromagnetic and magnetic survey completed in 1984 as well as geological field observations were used to define 4 diamond drill targets. A compilation of these results are shown on map 3. Drill hole cross-sections showing the results of this diamond drill program are presented in Appendix II and logs are given in Appendix I.

The diamond drill program did not intersect any economic gold values. However, low gold values (maximum 3.5 g/ton) are present on the property on surface as well as at depth.

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The induced polarization anomalies are related in most cases to a combined occurrence of magnetite and pyrite. Magnetic highs can be correlated with magnetite-enriched meta-basalts. Sulphide mineralization, predominantly pyrite, appears to be widespread in traces, dispersed specks and fine grained impregnations. Enrichments above 1% pyrite are rare and usually confined to narrow alteration zones or vein material. Rock alteration is common, with introduction of epidote, chlorite, quartz and calcite.

A summary of the 1986 diamond drilling program follows:

HG-86-1

This diamond drill hole was drilled to a depth of 215.18 metres, at an angle of 50° (azimuth 270°), to test a strong to medium strong I.P. anomaly at the western flank of a significant magnetic anomaly, on strike with and 300 metres north-northeast of the main gold showing ("Shunsby gold showing"). It intersected less than 1 metre of overburden and was terminated at its projected depth of 215.18 metres. No value greater than 1 g per ton Au was detected.

The induced polarization anomaly corresponds to a magnetite enriched meta-basalt unit with dispersed pyrite impregnations. The change from a magnetite-enriched meta-basalt to a more or less magnetite-free meta-basalt unit takes place vertically below the western end of the magnetic anomaly on line 1S. This

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correlation indicates a vertical dip of the lithological units.

HG-86-2

This diamond drill hole was collared 50 metres east of the "Shunsby" gold showing and aimed at the main gold showing at an angle of 50° (azimuth 270°). It was terminated at its projected depth of 218.23 metres. The highest gold value encountered was 1.00 g/ton Au.

The surface lithologies and alteration have a depth extension approximately vertical or dipping 85° to the east-southeast. The gold values do not improve with depth but are evidently linked to pyrite mineralization.

The magnetic feature and the induced polarization anomaly are comparable to those tested by diamond drill hole HG-86-1. The anomalies can be explained by a combined effect resulting from the magnetite and pyrite content of the intersected lithologies.

HG-86-3

The target zone for this diamond drill hole was a definite induced polarization anomaly with a significant resistivity low, associated with an east-west cross fault. It was drilled at an angle of 50° (azimuth 285°) and was terminated by technical considerations at a depth of 270.3 metres. This drill hole exceeded

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its target depth of 200 metres, and was still in a brecciated, pyritic, chloritized, cherty or intensely silicified zone at its end. The highest gold value encountered was 1.38 g/t over 1 metre from 250 to 251 metres.

It is not clear whether the weakly mineralized zone corresponds to the down-dip extension of the Shunsby showing, or a hydrothermal alteration feature associated with the east-west shear zone and related to the Garrison pluton, or a combination of both. In either case, it must be observed that the gold content is low, and that this hole offers little incentive for further exploration in the immediate area.

The induced polarization anomaly may be explained by the combined effect of the magnetite and pyrite contents. The resistivity low corresponds to a significant shear zone.

HG-86-4

A narrow but elongated magnetic low, associated with a possible induced polarization anomaly, was the target for this diamond drill hole. It was drilled at an angle of 50° (azimuth 290°) and was terminated by technical considerations at a depth of 230.42 metres. The highest gold assay was 1.00 g/t over a 1 metre, in a sheared, brecciated, silicified, epidotized, carbonatized, pyritized basalt.

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The induced polarization anomaly may be explained by the combined effect of magnetite and pyrite, and in the lower levels of the drill hole by pyrite alone. The magnetic low corresponds to a magnetite free meta-basalt and a zone of intensive alteration and brecciation.

3.4 GEOCHEMICAL ANALYSIS OF DRILL CORE FOR GOLD

Samples were selected semi-systematically from all drill holes, usually in a pattern of alternate 1.5 metre intervals. However, in mineralized sections, sample intervals were shortened and all intervals were assayed.

Three hundred and fifty-five (355) samples were fire assayed for gold. One (1) sample was also analysed for Ag, Cu, Zn, Pb, Sb and As. Results are shown on the drill logs in Appendix I.

The assays for gold can be summarized as follows:

Gold content	No. of samples	Percent of samples
1 g/t Au or greater	4	1.1%
0.75-1.00 g/t Au	5	1.4%
0.50-0.75 g/t Au	7	2.0%
0.25-0.50 g/t Au	104	29.3%
Less than 0.25 g/t Au	203	57.2%
Not detected	32	9.0%
TOTAL	355	100.0%

4.0 CONCLUSION AND RECOMMENDATION

The compilation of geological surface data as well as geophysical results from a magnetic survey, VLF-EM survey and induced polarization survey led to the selection of four targets which were subsequently diamond drilled.

The mineralization features in the diamond drill holes confirm the observations at surface. The gold mineralization is essentially confined to narrow pyrite-enriched zones in quartz vein material. The grades are marginal (up to 1.38 g/ton in D.D.H. HG-86-3 sample 53336 and up to 3.5 g/ton in surface grab samples).

The crucial question of the existence of interflow sediments comparable to the McDermott gold deposit remains open. However, observations indicate that most of the quartz-chert intersections seem to be of hydrothermal origin or at least intensively remobilized.

Alteration features are numerous and dominated by epidote, chlorite, calcite and quartz. Unfortunately, the alteration is confined to narrow zones, stringers, fractures and hair-line fractures.

Continued exploration efforts on this property would have to concentrate on the structurally interesting shear zones discovered in HG-86-3 and HG-86-4 and on untested probable, possible and indicated induced polarization anomalies.

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Despite confirmation of background gold values on the property, the diamond drilling program did not locate any zones with obvious potential to develop into an economic gold deposit. No further work is recommended at the present time.

Winfried Brack, Ph.D., geologist
January 1987

CERTIFICATE

THIS IS TO CERTIFY THAT:

- I am resident of Pierrefonds, Province of Quebec, since 1980.
- I have been permanently engaged in mining exploration since 1978 and have been a consulting geologist since 1984. I also have been teaching mineral exploration and mining geology to graduate students at McGill University in Montreal.
- I am a graduate of Ludwig Maximilian University of Munich, W-Germany (Dipl. geologist in 1972 and Ph.D. in 1977), in geology.
- I have worked in several provinces in Canada since 1980. I have examined the assessment files covering the subject property and the immediate area at the resident geologist office in Kirkland Lake of the Ontario Department of Mines.
- This report is based on the author's eight years experience in exploration, on a comprehensive study of all work records (see references) and on geological maps and reports published for the area of interest by the Ontario Department of Mines. I have frequently visited the property from May 1986 to January 1987.
- I have disclosed in this report all relevant material which, to the best of my knowledge, might have a bearing on the viability of the project or the recommendation.
- I have not, directly or indirectly, received nor expect to receive any interest, direct or indirect, in the property of Lynx-Canada Explorations Ltd. or any affiliate, or beneficially own, directly or indirectly, any securities of that company or any affiliate. I am not an insider of a company having an interest in the subject property nor in any other property in the area.

Noranda, January 15, 1987

Winfried Brack, Ph.D.
Consulting geologist
Pierrefonds, Quebec

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DIAMOND DRILL CORE LOG

Sheet No. 1

LATITUDE 5372 060 m N (N.T.S.)

DEPARTURE 5 82 160 m E (N.T.S.)

ÉLÉVATION 300 meters (approx.)

BEARING 270°

DIP AT COLLAR 52°

ALL MEASUREMENTS IN METRES

meters Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
61	50°		
122	49°		
183	47°		

TOTAL DEPTH OF HOLE 215.18 metres

PROPERTY HARKER-GARRISON

CLAIM No. 765897-1

HOLE No. HG-86-1

CORE SIZE BQ

STARTED 28/11/86

FINISHED 02/12/86

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	ASSAYS % CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
0	0.60	OVERBURDEN										
0.60	215.18	META-BASALT (main unit)										
		magnetic: 0.60 - 148 ; non magnetic: 148 - 215.18										
0.60	6.20	flow-brecciated, amphibolitized,	53051	1.0						0.6	1.0	0.4
		banded dark green, green, pale green, fine	53052	0.25						1.0	2.0	1.0
		grained	53053	0.25						2.0	3.0	1.0
			53054	tr.						3.0	4.0	1.0
		medium to strong fracturing	53055	tr.						4.0	5.0	1.0
		predominantly 50° (range 40° - 60°)	53056	tr.						5.0	6.0	1.0
		flow angle 40°	53057	0.25						6.0	7.0	1.0
		mineralization: pyrite 1% - 3%, diseminated										
		and concentrated within alteration zone										
		alteration: calcite, chlorite,										
		garnets										
		penetrative silicification (example 5.4 - 5.7)										

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CONTRACTOR Les Forages Philippon Inc.

LOGGED BY Winfried Brack

DIAMOND DRILL CORE LOG

Sheet No. 2

PROPERTY HARKER-GARRISON

HOLE No. HG-86-1

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
6.20	17.80	medium to fine grained basalt,	53058	tr.						7.0	8.0	1.0
		amphiboles within aphanitic	53059	0.25						8.0	9.0	1.0
		groundmass	53060	tr.						9.0	10.0	1.0
			53061	0.25						10.0	11.0	1.0
		dark to medium green	53062	tr.						11.0	12.0	1.0
			53063	tr.						12.0	13.0	1.0
		medium to weak fracturing	53064	tr.						14.5	15.5	1.0
		predominantly 60° range (30° - 85°)	53065	tr.						15.5	17.08	0.58
		16.75 alteration angle 25°										
		mineralization: specks of pyrite mainly										
		on fractures, minor impregnation										
		less 1%										
		alteration: discordant network										
		of hydrothermal alteration by										
		garnets, epidote, bleached intervals,										
		quartz - calcite veinlets with epidote										
		penetrative silicification (example 11.75 - 12)										

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DIAMOND DRILL CORE LOG

Sheet No. 3

PROPERTY HARKER-GARRISON

HOLE No. HG-86-1

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
17.80	29.0	same as above with less	53066	0.75						18.00	19.00	1.00
		alteration	53067	tr.						19.00	20.00	1.00
		26.0 to 26.30 quartz - calcite	53068	0.25						22.00	22.50	0.50
		breccia	53069	tr.						23.50	24.25	0.75
		specks of pyrite and very little	53070	tr.						26.00	26.60	0.60
		impregnation of pyrite (+/- 22.10)										
		fractures range 30° - 40°										
		quartz - carbonate vein at 25.10										

NR-12 LF C-155

DIAMOND DRILL CORE LOG

Sheet No. 4

PROPERTY HARKER-GARRISON

HOLE No. HG-86-1

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
29.0	29.80	amygdule meta-basalt	53071	nil						29.0	30.0	1.0
			53072	tr.						31.88	32.6	0.72
29.80	31.90	fine grained basalt with some										
		calcite - quartz (hematite) veinlets,										
		in some cases associated with pyrite (31.47)										
32.0	32.60	Calcite - quartz - basalt breccia										
		with specks of pyrite										
		fracture at 40°										
32.60	41.20	fine grained basalt, with up to										
		4 cm wide sections of intense										
		alteration , such as										
		epidotization, chloritization										
		garnets, hematitization (39.20 and 40.75)										
		medium fracturing predominantly 30° to 60°										
		pyrite veinlets at 39.05										

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DIAMOND DRILL CORE LOG

Sheet No. 5

PROPERTY HARKER-GARRISON

HOLE No. HG-86-1

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
41.20	42.0	penetrative silicification	53073	tr.						43.0	43.8	0.8
		some pyrite impregnation	53074	0.25						41.1	42.0	0.9
		weak fracturing	53075	0.50						47.0	48.0	1.0
			53076	tr.						48.5	50.0	1.5
			53077	tr.						50.0	52.0	2.0
42.0	43.70	amygdule basalt with pyrite	53078	0.25						52.0	54.0	2.0
		impregnation	53079	tr.						54.0	56.0	2.0
		weak fracturing 55° - 90°										
43.70	56.25	dark fine grained basalt intersected										
		by numerous veinlets (0.2 - 0.5 cm)										
		and some small (max. 10 cm)										
		alteration zones (44.10) with feldspathization										
		and pyrite veinlets, quartz - calcite, hematite										
		alteration 55° at 44.7										

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DIAMOND DRILL CORE LOG

Sheet No. 6

PROPERTY HARKER-GARRISON

HOLE No. HG-86-1

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
56.25	62.80	penetrative silicification	53080	tr.						56.0	58.0	2.0
		some quartz - calcite veinlets	53081	tr.						62.7	64.0	1.3
		fractures (weak) 35° - 60°	53082	tr.						64.0	65.75	1.75
			53083	0.25						65.75	67.40	1.65
62.80	64.80	medium grained meta-basalt,	53084	tr.						70.0	71.0	1.0
		weak fracturing,	53085	0.25						71.0	73.0	2.0
		calcite, pyrite, hematite veinlets	53086	tr.						73.0	75.0	2.0
		0.01 cm with steep angle 15° - 20° (60m - 63m)	53087	tr.						75.0	76.0	1.0
			53088	nil						76.0	77.5	1.5
64.80	71.0	medium to fine meta-basalt,	53089	nil						77.5	79.0	1.5
		increase of alteration (medium)										
		calcite, epidote, chlorite, hematite										
		some pyrite impregnations										
71.0	78.0	fine grained meta-basalt										
		alteration as above but less.										
		fracturing (medium) weak 30° - 60° predominantly										
		at 50°. alteration angle 20° - 30° with some										
		exception at 80° (77.40m)										

DIAMOND DRILL CORE LOG

Sheet No. 1

LATITUDE 5371220m N (N.T.S.)
DEPARTURE 5 82820m E (N.T.S.)
ELEVATION 340m (approx)
BEARING 290°
DIP AT COLLAR 50°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
45.7	50°		
91.4	50°		
137.1	48°		
182.9	49°		

TOTAL DEPTH OF HOLE 230.42 metres

PROPERTY HARKER-GARRISON
CLAIM No. 765893-1
HOLE No. HG-86-4
CORE SIZE BQ
STARTED 16/12/86
FINISHED 21/12/86

ALL MEASUREMENTS IN METRES

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	ASSAYS % CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	ACC WIDTH
0	4.88	OVERBURDEN	53357	nil						5.0	6.5	1.5
			53358	tr.						9.0	10.5	1.5
4.88	230.42	META-BASALT	53359	tr.						13.0	14.0	1.0
4.88	21.60	fine to medium grained, dark green, medium to	53360	tr.						17.5	19.0	1.5
		strongly fractured (tectonized), flat angles do-	53361	0.25						28.5	30.0	1.5
		minating, 0 - 30° as well as 30° - 70° Medium	53362	nil						30.0	31.0	1.0
		magnetic, with some weak or non-magnetic spots,	53363	0.25						31.0	31.5	1.5
		limonitic weathering on fractures (surface effect	53364	tr.						35.0	36.5	1.5
		alteration: chlorite and epidot mainly on frac-	53365	tr.						39.5	41.0	1.5
		tures. Mineralization: traces of pyrite										
21.60	43.8	meta-basalt, same as above, however weakly										
		fractured (less flat angles) and less altered,										
		some narrow quartz - hematite veining <1/2 cm,										
		hair fractures of epidot / chlorite, calcite,										
		quartz, spotty pyrite mineralization such as 29.0 - 31.0, limonite on fractures										

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CONTRACTOR Les Forages Philippon Inc.

LOGGED BY Winfried Brack

DIAMOND DRILL CORE LOG

PROPERTY HARKER-GARRISON

HOLE No. HG-86-4

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
43.8	51.3	same as above but moderate to	53366	tr.						46.0	47.5	1.5
		strong fracturing, limonitic	53367	tr.						48.5	59.0	1.5
		fractures (50 - 85), massive	53368	tr.						50.0	51.0	1.0
		pyrite on fracture, strongly	53369	0.25						53.0	54.0	1.0
		magnetic	53370	tr.						55.3	57.0	1.7
51.3	65.5	dense, very fine grained, dark green	53371	0.25						57.0	58.5	1.5
		meta-basalt, weakly fractured	53372	0.25						58.5	60.0	1.5
		with increased epidot	53373	0.25						60.0	61.5	1.5
		and pyrite impregnation	53374	0.25						61.5	62.7	1.2
		62.7 - 63.5 quartz - epidot - pyrite vein	53375	0.25						62.7	63.58	0.88
		(eventually some chalcopyrite), flow texture	53376	0.25						63.58	64.0	0.42
		on upper and lower contact of quartz vein	53377	tr.						64.0	65.5	1.5
		(flow angle 5°- 25°), strongly	53378	tr.						65.5	67.0	1.5
		magnetic	53379	0.25						68.0	69.5	1.5
65.5	87.2	same as above with very little										
		alteration (epidote), strongly magnetic,										
		weakly fractured, except 84.0 - 86.0										
		strongly fractured, traces of pyrite										

DIAMOND DRILL CORE LOG

Sheet No. 3

PROPERTY HARKER-GARRISON

HOLE No. HG-86-4

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
87.2	110.0	fine to very fine grained meta-basalt,	53380	tr.						87.17	88.7	1.53
		weakly fractured, 109.6 - 110 strong fracturing,	53381	0.25						88.7	90.0	1.30
		fracture parallel to core at 105 to 108,	53382	tr.						90.0	91.5	1.5
		medium to strongly magnetic,	53383	tr.						91.5	93.0	1.5
		very minor alteration (quartz - calcite - epidot)	53384	0.25						109.0	110.5	1.5
		traces and specks of pyrite mineralization	53385	0.25						110.5	112.0	1.5
			53386	0.25						112.0	113.0	1.0
110.0	127.0	inhomogenous zone of meta-basalt	53387	tr.						113.0	114.0	1.0
		partly with flow texture, with	53388	0.25						114.0	115.0	1.0
		silicification from 110 - 115 associated	53389	0.25						115.0	116.5	1.5
		with chlorite, epidot alteration,	53390	tr.						122.0	123.0	1.0
		some brecciation and pyrite impregnation	53391	0.25						123.0	124.0	1.0
		calcite veinlet 120.6 - 120.7										
		calcite breccia 123.4 - 123.6										
		some strongly fractured intersections										
		at 110.0 - 110.7 ; 115.7 - 116.0 ; 120.4 - 120.7										
		and at 122.1										

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DIAMOND DRILL CORE LOG

Sheet No. 4

PROPERTY HARKER-GARRISON

HOLE No. HG-86-4

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
127.0	157.5	meta-basalt fine to medium	53392	0.25						145.95	147.4	1.45
		grained, weakly fractured 30° - 60°	53393	tr.						161.5	162.35	0.85
		very little alteration	53394	tr.						164.0	165.0	1.0
		146.8 - 147.0 quartz vein	53395	0.25						170.0	171.0	1.0
		152.55 - altered feldspars (sericite?)	53396	0.25						176.0	177.0	1.0
		weakly magnetic with some moderately	53397	tr.						177.0	178.5	1.5
		magnetic sections,	53398	0.25						207.0	208.0	1.0
		traces of pyrite and pyrite impregnations	53399	tr.						209.0	210.0	1.0
		at 145.9 - 147.4	53400	tr.						210.0	211.0	1.0
157.5	224.0	meta-basalt non-magnetic or very weakly	53401	0.25						226.0	227.0	1.0
		magnetic in sections,	53402	0.25						227.0	228.0	1.0
		alteration on numerous hair fractures	53403	1.00						228.0	229.0	1.0
		calcite, epidot, quartz, chlorite, flow textures &	53404	0.25						229.0	230.43	1.43
		brecciation, traces of pyrite										
		with some local enrichments,										
		170 - 171 stringers breccia zone										
		with massive pyrite impregnation										
		quartz vein 195.3, quartz breccia 172 - 172.5										
		bleached zones										

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DIAMOND DRILL CORE LOG

PROPERTY HARKER-GARRISON

HOLE No. HG-86-4

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
224.0	230.42	same as above intensified										
		epidote quartz - calcite alteration										
		strongly fractured 40° - 50° (shear)										
		and brecciated, some traces of pyrite										
230.42	metres	END OF HOLE										

DIAMOND DRILL CORE LOG

Sheet No. 7

PROPERTY HARKER-GARRISON

HOLE No. HG-86-1

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
78.0	90.0	medium to fine grained meta-basalt	53090	tr.						79.0	80.5	1.5
		very fine fractures of calcite and	53091	tr.						80.5	82.0	1.5
		hematite? Penetrative	53092	tr.						82.0	84.0	2.0
		silicification from 84 to 85	53093	tr.						84.0	86.2	2.2
		weak fracturing, at an average	53094	tr.						89.0	91.0	2.0
		angle of 50°, range (30° - 60°)	53095	0.50						91.0	92.6	0.6
90.0	102.0	medium to fine grained meta-basalt	53096	0.25						94.75	96.3	1.55
		increased alteration as described	53097	tr.						96.3	98.0	1.7
		and some brecciation 91 - 91.75	53098	tr.						100.2	100.55	0.35
		moderate fracturing										
		at an angle of 50°										
		penetrative silicification (medium										
		grey in contrast to dark green of meta-										
		basalt) 93.35 - 93.95										
		94.48 - 95.30 100.10 - 100.54										
		95.10 calcite intersection 50°										
		fracturing medium to weak										

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DIAMOND DRILL CORE LOG

Sheet No. 8

PROPERTY HARKER-GARRISON

HOLE No. HG-86-1

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
102.0	107.6	tectonized meta-basalt	53099	0.25						102.4	103.5	1.1
		calcite stringers 103.40 - 106.10	53100	0.25						103.5	105.0	1.5
102.30	103.0	some pyrite mineralization	53101	tr.						105.0	106.0	1.0
105.60	105.70	shear zone, broken or	53102	tr.						106.0	108.0	2.0
106.12	107.0	shattered core	53103	tr.						108.0	110.0	2.0
107.30	107.60		53104	0.75						110.0	112.0	2.0
107.70	107.90	quartz vein and pyrite 45° angle	53105	0.25						114.0	116.0	2.0
			53106	tr.						118.0	120.0	2.0
108.0	144.0	meta-basalt with numerous	53107	0.25						122.0	124.0	2.0
		small alterations 0.01 - 1.00 cm	53108	0.25						112.0	114.0	2.0
		with some bleached zones: 123.80 - 123.90	53109	tr.						126.0	128.0	2.0
		128.60 - 128.70	53110	0.25						130.0	132.0	2.0
		129.08 - 129.30	53111	tr.						134.0	136.0	2.0
		131.70 - 131.80 132.30 - 132.66	53112	tr.						137.5	139.0	1.5
		up to 30 cm dominantly calcite	53113	0.25						139.0	140.5	1.5
		epidote alteration some quartz veining,	53114	0.25						140.5	141.8	1.3
		pyrite impregnations or specks throughout the core	53115	tr.						141.8	143.4	1.6
		fracturing low to moderate angles predominantly										
		50° - 60°										

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DIAMOND DRILL CORE LOG

Sheet No. 9

PROPERTY HARKER-GARRISON

HOLE No. HG-86-1

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
144.0	149.0	transition zone, meta-basalt changing	53116	tr.						145.0	146.5	1.5
		into flow breccia	53117	tr.						148.0	149.5	1.5
			53118	tr.						151.0	152.5	1.5
		145 magnetism erratic, local fractures	53119	0.25						154.0	155.5	1.5
			53120	0.25						157.0	158.5	1.5
149.0	163.0	flow breccia, characterized by	53121	tr.						160.0	161.5	1.5
		penetrative alteration of calcite and										
		quartz as well as numerous undirectional										
		hair fractures, predominantly filled with										
		calcite and epidote (minor quartz) and										
		some hematite. The pyrite content is										
		very low										
		fracturing is medium to strong										
		several narrow shear zones may exist										
		(shattered rock fragments) the strongest										
		being at 160.5 - 161m										
		fracture angles and flow angle cumulative at 60°										
		(range 40° - 70°)										
		non magnetic										

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DIAMOND DRILL CORE LOG

Sheet No. 10

PROPERTY HARKER-GARRISON

HOLE No. HG-86-1

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
163.0	185.0	same as above less intensive	53122	tr.						163.0	164.5	1.5
		with slightly more pyrite content	53123	tr.						166.0	166.5	0.5
		specks, veinlets, impregnation	53124	nil						169.0	170.5	1.5
		calcite, epidote alteration dominant	53125	tr.						170.5	172.0	1.5
		173.90 - 174.35 calcite vein without	53126	tr.						172.0	173.5	1.5
		sharp contacts	53127	tr.						173.5	175.0	1.5
			53128	0.25						177.5	179.0	1.5
		fracturing weak to medium	53129	tr.						182.5	184.0	1.5
		predominantly 60°	53130	0.25						186.5	187.0	0.5
			53131	0.25						189.5	190.0	0.5
		195.25 - 195.80 calcite alteration	53132	tr.						191.5	192.8	1.3
		intense same as 211 - 211.50	53133	0.25						195.0	196.0	1.0
			53134	tr.						211.0	212.5	1.5
185.0	215.18	non-magnetic fine grained meta-basalt										
215.18	metres	END OF HOLE										

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DIAMOND DRILL CORE LOG

Sheet No. 1

LATITUDE 5371 740m N (N.T.S.)
DEPARTURE 5 82 060m E (N.T.S.)
ÉLÉVATION 330 m (approx)
BEARING 270°
DIP AT COLLAR 50°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
61m	49°		
122m	48°		
183m	46°		

TOTAL DEPTH OF HOLE 218.23 metres

PROPERTY HARKER-GARRISON
CLAIM No. 765897-1
HOLE No. HG-86-2
CORE SIZE BQ
STARTED 02/12/86
FINISHED 06/12/86

ALL MEASUREMENTS IN METRES

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	ASSAYS % CU	ASSAYS % ZN	ASSAYS % NI	ASSAYS	CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
0	2.1	OVERBURDEN	53135	tr.						4.0	5.5	1.5
2.1	120.9	META-BASALT (main unit)	53136	nil						7.0	8.5	1.5
			53137	tr.						10.0	11.5	1.5
		SUB UNITS	53138	nil						11.5	13.0	1.5
2.1	12.0	tuffaceous basalt with alteration	53139	tr.						13.0	14.5	1.5
		mainly along fractures max 6 cm wide	53140	tr.						14.5	16.0	1.5
		diffuse alteration zones from 9.0 - 12.0	53141	tr.						16.0	17.5	1.5
		predominantly epidote	53142	tr.						19.0	20.5	1.5
		medium to strong fracturing	53143	0.25						22.0	23.5	1.5
			53144	tr.						25.0	26.5	1.5
			53145	tr.						28.0	29.5	1.5
12.0	44.0	dark green, aphanitic meta-basalt	53146	1.0						30.7	31.2	1.5
		with stringers and zones of alteration	53147	tr.						31.2	32.5	1.3
			53148	tr.						32.5	34.0	1.5
			53149	tr.						34.5	35.5	1.5

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CONTRACTOR Les Forages Philippon Inc.

LOGGED BY Winfried Brack

DIAMOND DRILL CORE LOG

Sheet No. 2

PROPERTY HARKER-GARRISON

HOLE No. HG-86-2

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
		calcite alteration on hair fractures	53150	0.25						35.5	37.0	1.5
		numerous and dense 17.80 - 18.10	53151	tr.						38.5	40.0	1.5
		18.80 - 19.60	53152	tr.						40.0	41.5	1.5
		epidot alteration throughout with	53153	tr.						43.0	44.0	1.0
		higher density or extended zones being at	53234	0.50						5.5	7.0	1.5
		12.05; 16.35 - 16.45 ; 27.70 - 28.40 ;										
		27.25; 34.90 - 36.70 ; 39.40 ; 39.90										
		occasional hematization, feldspathization										
		with epidotization (+ garnet) less common as in										
		HG-86-1. Silicification and brecciated veins 23.10										
		43.80 - 44.80 associated										
		with increased pyritization										
		42.60 - 42.70 quartz-breccia, 31.15 quartz veinlet										
		chloritization										
		pyrite mineralization as traces, or specks on										
		fractures, or impregnation, pyrite enriched within										
		alteration zones, such as calcite veinlets and										
		especially with silicification, usually less than										
		1%, stronger between 31 - 36 m +/-2%										

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DIAMOND DRILL CORE LOG

Sheet No. 3

PROPERTY HARKER-GARRISON

HOLE No. HG-86-2

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	Cu	Zn	Pb	As	CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
		two accumulative fracture systems	53154	0.50	0.03	0.017	0.022	0.005	1.5	43.9	44.5	0.6
		15° - 30° and 45° - 60°	53155	0.75						44.5	46.0	1.5
		alteration cut predominantly at	53156	0.25						47.0	48.5	1.5
		an angle of +/- 40°	53157	0.75						48.5	50.0	1.5
		medium to weak fracturing, short	53158	tr.						50.0	51.5	1.5
		intervals of strong fracturing at 42 m	53159	tr.						51.5	53.0	1.5
			53160	tr.						54.5	56.0	1.5
44.0	70.0	intensly altered meta-basalt, magnetic,	53161	tr.						56.0	57.5	1.5
		with brecciation features and	53162	0.50						61.5	63.0	1.5
		occasional tuffaceous texture such as	53163	0.25						63.0	64.5	1.5
		52.0 - 60 ; 62.20 - 62.60	53164	0.50						64.5	66.0	1.5
		alterations as described with	53165	tr.						66.0	67.5	1.5
		emphasis on epidotization and	53166	tr.						69.0	70.5	1.5
		chloritization, less calcite but										
		increased silicification, (bleached sections),										
		pyrite mineralization decreasing but intense at										
		44.70 ; 51.5 ; 63.0.										
		fracturing medium (to strong)										
		as described above										

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DIAMOND DRILL CORE LOG

Sheet No. 4

PROPERTY HARKER-GARRISON

HOLE No. HG-86-2

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
70	101.2	tuffaceous meta-basalt, magnetic	53167	nil						73.0	74.6	1.6
		with some angular fragments	53168	nil						82.0	83.5	1.5
		71m/78m,	53169	tr.						88.0	89.5	1.5
		chlorite, epidote alteration dominant,	53170	0.75						89.5	91.0	1.5
		some hematization, silicification in	53171	0.25						91.0	92.5	1.5
		schlieric texture, brecciation,	53172	tr.						92.5	94.0	1.5
		fracturing medium to weak	53173	tr.						95.5	97.0	1.5
		except 43.80 - 74.0,	53174	tr.						98.5	100.0	1.5
		flat fractures 15° - 30° less common, fracture	53175	tr.						100.0	101.5	1.5
		angles predominantly 60°										

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DIAMOND DRILL CORE LOG

Sheet No. 5

PROPERTY HARKER-GARRISON

HOLE No. HG-86-2

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
101.2	120.9	SYENITE PORPHYRY	53176	0.25						101.5	103.0	1.5
		red to pink	53177	tr.						103.0	104.5	1.5
		fine groundmass with hypidiomorphic	53178	tr.						104.5	106.0	1.5
		k-feldspars porphyro-blasts	53179	tr.						107.5	109.0	1.5
		weak to (medium) fracturing	53180	tr.						110.5	112.0	1.5
		fractures predominantly 40° - 60° with	53181	tr.						113.5	115.0	1.5
		some flat angles	53182	tr.						116.5	118.0	1.5
		alteration confined to hair fractures, mainly	53183	tr.						118.0	119.5	1.5
		calcite, quartz and chlorite,	53184	0.25						119.5	121.0	1.5
		some little fragments of basalt are										
		occasionally visible,										
		weakly magnetic										
		103.86 calcite vein 3 cm										
		118.0 brecciated vein										
		contact to meta-basalt sharp										
		angle at top 20° bottom 80°										

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DIAMOND DRILL CORE LOG

Sheet No. 6

PROPERTY HARKER-GARRISON

HOLE No. HG-86-2

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
120.9	143.5	altered META-BASALT with	53185	tr.						121.0	122.5	1.5
		occasional tuffaceous texture	53186	tr.						122.5	124.0	1.5
		(ex.: 128.5)	53187	tr.						124.0	125.5	1.5
		quartz - carbonate alteration as	53188	tr.						125.5	127.0	1.5
		well as (epidote)chlorite alterations,	53189	0.25						127.0	128.5	1.5
		healed chlorite fractures,	53190	tr.						128.5	129.0	0.5
		traces of pyrite with some impregnations	53191	0.25						129.0	130.0	1.0
		within narrow banded (+/- 10cm)	53192	tr.						131.5	133.0	1.5
		alteration zones, magnetic, weaker	53193	nil						133.0	134.5	1.5
		in areas of strong alteration	53194	0.25						134.5	136.0	1.5
		fractures at 40° - 60° predominantly,	53195	tr.						137.5	139.0	1.5
		"foliation" 60°, small shear zones	53196	tr.						140.5	142.0	1.5
		at 123.40 131.60										
		sericite, talc, chlorite - alteration on										
		fractures										

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DIAMOND DRILL CORE LOG

Sheet No. 7

PROPERTY HARKER-GARRISON

HOLE No. HG-86-2

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
143.5	156.5	tectonized meta-basalt (same as above)	53197	tr.						143.5	145.0	1.5
		but strong fracturing	53198	tr.						145.0	146.5	1.5
		(brittle deformation) brecciation	53199	tr.						146.5	148.0	1.5
		calcite on healed fractures, magnetic,	53200	nil						148.0	149.0	1.0
		in areas of strong deformation non-magnetic	53201	tr.						149.0	150.5	1.5
			53202	tr.						152.0	153.5	1.5
			53203	tr.						153.5	155.0	1.5
		144.30 - 145.30 intense silicification	53204	tr.						155.0	156.5	1.5
			53205	0.25						156.5	158.0	1.5
156.5	167.0	grey silicified basalt fine grained	53206	tr.						158.0	159.5	1.5
		(alternatively metasediment ???) increased	53207	tr.						159.5	161.0	1.5
		pyrite content <1% weak fracturing	53208	tr.						161.0	162.5	1.5
		quartz - calcite veinlets minor, strongly	53209	0.25						162.5	164.0	1.5
		magnetic, weak hematite alterations	53210	0.25						164.0	165.5	1.5
		in stringers and on some fractures	53211	tr.						165.5	167.0	1.5
			53212	tr.						167.0	168.0	1.0
167.15	167.60	quartz - calcite breccia										

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DIAMOND DRILL CORE LOG

Sheet No. 8

PROPERTY HARKER-GARRISON

HOLE No. HG-86-2

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
167.60	178.0	tectonized meta-basalt	53213	tr.						168.0	169.5	1.5
		brittle deformation shear zone	53214	tr.						169.5	170.5	1.0
		starting from 171.30	53215	tr.						176.5	178.0	1.5
		magnetic weaker in zones of strong	53216	0.25						179.5	181.0	1.5
		deformation and alteration	53217	tr.						182.5	184.0	1.5
		sericite, talc, chlorite - alteration on	53218	tr.						184.0	185.5	1.5
		fractures	53219	tr.						185.5	187.0	1.5
		fracture predominantly 40° - 60°	53220	0.25						187.0	188.5	1.5
			53221	tr.						191.0	192.5	1.5
			53222	0.25						194.0	195.5	1.5
			53223	tr.						197.0	198.5	1.5
178.0	218.23	fine grained meta-basalt relatively	53224	tr.						200.0	201.5	1.5
		undisturbed (weak fracturing) with	53225	tr.						203.0	204.5	1.5
		calcite alteration, dominantly	53226	0.25						204.5	206.0	1.5
		epidote, locally chlorite,	53227	tr.						207.5	209.0	1.5
		silicification less compared to the	53228	tr.						210.5	212.0	1.5
		beginning of the hole, increase of pyrite	53229	tr.						213.5	215.0	1.5
		content, mainly in specks towards	53230	0.25						215.0	216.0	1.0
		the end of the hole	53231	0.25						216.0	217.0	1.0

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DIAMOND DRILL CORE LOG

Sheet No. 9

PROPERTY HARKER-GARRISON

HOLE No. HG-86-2

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
		areas of intensified carbonization	53232	tr.						217.0	217.23	0.23
		121.5 ; 183.9 ; 186.5 ; 187.9 ; 191.5	53233	0.25						174.0	175.5	1.5
		193.0 - 195.0 ; 202.05 ; 208.4 ; 215.3 ; 215.5 ;										
		217.6										
		hematization along fractures common										
		fracturing 40° - 60° predominantly										
		with increasing steep angles +/- 20°										
		towards the end of the hole										
		magnetic response variable weak										
		to strong										
218.23	metres	END OF HOLE.										

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DIAMOND DRILL CORE LOG

Sheet No. 1

LATITUDE 5371 520 m N (N.T.S.)
DEPARTURE 5 82 185 m E (N.T.S.)
ELEVATION 310 m (approx.)
BEARING 285°
DIP AT COLLAR 50°

Tests Depth	Dip	Magnetic Bearing	Corrected Bearing
45.7	51°	228.6	45°
91.4	49°	270.3	43°
137.1	48°		
182.9	48°		

TOTAL DEPTH OF HOLE 270.3 metres

PROPERTY HARKER-GARRSION
CLAIM No. 765898-1
HOLE No. HG-86-3
CORE SIZE BQ
STARTED 07/12/86
FINISHED 16/12/86

ALL MEASUREMENTS IN METRES

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	ASSAYS % CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	ACC WIDTH
0	7.31	OVERBURDEN	53235	0.50						8.0	9.5	1.5
7.31	40.2	META-BASALT	53236	0.25						9.5	11.0	1.5
7.31	32.0	dark, to pale green, within alteration zones very	53237	tr.						11.0	12.5	1.5
		fine grained. Medium to strongly fractured shear	53238	0.25						14.0	15.5	1.5
		zone, scatered texture with healed fractures (chlo-	53239	tr.						17.0	18.5	1.5
		rite), breccia 18.50 - 19.0, angle of fractures	53240	0.25						18.5	20.0	1.5
		predominantly 45° - 60° with occasional flat angles	53241	0.25						20.0	21.5	1.5
		+/- 30°. Alterations: silicification, epidotization	53242	tr.						23.0	24.5	1.5
		garnets, chloritization mainly on fractures,	53243	tr.						24.5	26.0	1.5
		bleached sections up to 30 cm.	53244	tr.						26.0	27.5	1.5
		mineralization: dispersed pyrite accumulated on	53245	tr.						27.5	29.0	1.5
		fractures, specks of pyrite usually less than 1%	53246	tr.						29.0	30.5	1.5
		weakly magnetic (with some erratic responses)										

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CONTRACTOR Les Forages Philippon Inc.

LOGGED BY Winfried Brack

DIAMOND DRILL CORE LOG

Sheet No. 2

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
			53247	tr.						33.0	34.5	1.5
			53248	tr.						34.5	36.0	1.5
31.5	36.3	same as above less fracturing (weak)	53249	tr.						36.0	37.5	1.5
36.6	40.2	fine to medium grained meta-basalt	53250	tr.						39.0	40.2	1.2
		(amphibolite), weakly fractured, very	53251	tr.						40.2	41.6	1.4
		little alteration, calcite,	53252	nil						41.6	43.0	1.4
	40.2	contact to syenite porphyry, seam of calcite										
			53354	0.25						37.5	39.0	1.5
40.2	43.6	SYENITE PORPHYRY, weakly magnetic										
		hypidiomorphic feldspars (up to 5 mm) in very fine										
		grained groundmass, mottled red, pink,										
		very weakly fractured, angles at 40° - 60°										
		sharp contact, upper contact angle 50°,										
		lower contact 55°										
		quartz - calcite fracture at 41.50 (7cm)										
		pyrite impregnation,										
		chlorite on fractures										

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DIAMOND DRILL CORE LOG

Sheet No. 3

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
43.6	242.5	META-BASALT	53253	nil						44.0	45.5	1.5
43.6	48.0	same as from 36.6 to 40.2 medium grained	53254	nil						45.5	47.0	1.5
			53255	0.25						47.0	48.05	1.05
48.0	50.0	flow - brecciated meta-basalt	53256	tr.						48.05	48.77	0.72
		chlorite, epidote, silica, calcite, garnet	53257	nil						48.77	50.0	1.23
		alteration,	53258	0.25						50.0	51.5	1.5
		specks of pyrite and chalcopyrite,	53259	0.25						54.5	56.0	1.5
		weak to medium fracturing,	53260	tr.						56.0	57.5	1.5
		weakly magnetic	53261	0.25						59.0	60.5	1.5
50.0	56.0	fine grained meta-basalt										
		medium alteration with some strong alteration,										
		at 50.80 - 51.20 quartz - calcite epidote,										
		weak to medium fracturing, weakly magnetic										
56.0	65.0	very fine grained to fine grained										
		meta-basalt with only minor										
		alterations, very weak fracturing,										
		strongly magnetic										

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DIAMOND DRILL CORE LOG

Sheet No. 4

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
65.0	82.40	meta-basalt, dark green, moderately altered with	53262	0.25						65.0	66.5	1.5
		narrowly strong alterations 65.3 - 65.6 ; 69.6 -	53263	0.25						66.5	68.0	1.5
		69.9 ; 72.0 - 72.5 (mainly quartz - calcite - epi-	53264	tr.						69.5	70.0	0.5
		dote)with pyrite impregnation amygdule basalt	53265	tr.						71.0	72.5	1.5
		81.5 - 82.2, moderately to strongly magnetic	53266	0.25						72.5	74.0	1.5
82.40	96.0	meta-basalt, dark green to grey,	53267	tr.						74.0	75.5	1.5
		very minor alterations and	53268	tr.						75.5	77.0	1.5
		fractures, traces of pyrite with	53269	0.25						78.5	80.0	1.5
		occasional pyrite fractures,	53270	tr.						80.0	81.5	1.5
		50° - 60° fracture angles with	53271	tr.						84.0	85.5	1.5
		some flat fracturing 20° - 30°,	53272	0.25						87.0	88.5	1.5
		strongly magnetic	53273	tr.						90.0	91.5	1.5
96.0	133.0	same as above but slightly more	53274	tr.						94.0	95.5	1.5
		alterations mainly on fractures,	53275	0.25						97.0	98.5	1.5
		quartz - calcite epidote veinlet at 114.80	53276	nil						100.0	101.5	1.5
		with some pyrite impregnation and at	53277	nil						102.5	104.0	1.5
		118.5 - 118.95 with same massive pyrite over	53278	0.25						106.0	107.5	1.5
		3 cm, brittle zones at 104 and 105 m	53279	0.25						109.0	110.5	1.5
			53280	tr.						112.0	113.5	1.5

DIAMOND DRILL CORE LOG

Sheet No. 4A

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres		DESCRIPTION	SAMPLE No.	gr/T						CORE LENGTH		
FROM	TO			AU	AG	% CU	% ZN	% NI		FROM	TO	ACC WIDTH
	133.0	(extension of sheet no. 4)	53281	tr.						114.8	115.1	0.3
			53282	tr.						117.1	118.5	1.4
			53283	tr.						118.5	118.95	0.45
			53284	tr.						118.95	120.5	0.55
			53285	tr.						120.5	121.5	1.0
			53286	0.25						121.5	123.0	1.5
			53287	tr.						124.5	126.0	1.5
			53288	tr.						127.5	129.0	1.5

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DIAMOND DRILL CORE LOG

Sheet No. 5

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
133.0	143.0	same as above, but medium alterations,	53289	0.25						133.0	134.5	1.5
		medium to weak fracturing	53290	0.25						136.0	137.0	1.0
		with local quartz - epidot chlorite	53291	tr.						138.5	140.0	1.5
		zone (up to +/- 35 cm), such as 141.15 - 141.50,	53292	0.25						141.1	141.65	0.55
		mainly strongly magnetic with short	53293	tr.						143.0	144.5	1.5
		intersection of moderate magnetic	53294	tr.						146.0	147.5	1.5
		response (mainly in areas of alterations)	53295	0.25						149.0	150.5	1.5
			53296	0.25						152.0	153.5	1.5
143.0	151.5	dark green, fine grained meta-basalt,	53297	0.25						155.0	156.5	1.5
		with only minor alterations as	53298	tr.						158.0	159.5	1.5
		described, fracturing weak to medium,	53299	tr.						159.5	161.05	1.55
		mainly strongly magnetic										
151.5	162.0	same as 133.0 - 143.0 meta-basalt										
		with moderate to medium alterations,										
		magnetism erratic, mainly weak										
		or non-magnetic										

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DIAMOND DRILL CORE LOG

Sheet No. 6

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
162.0	166.5	tectonized zone (shear) within	53300	0.25						163.5	165.0	1.5
		altered meta-basalt,	53301	0.25						167.4	169.0	1.6
		occasionally magnetic	53302	tr.						171.0	172.5	1.5
			53303	tr.						174.5	176.0	1.5
166.5	192.0	medium altered and medium fractured	53304	tr.						176.0	177.5	1.5
		very fine, to fine grained meta-basalt	53305	tr.						177.5	179.0	1.5
			53306	nil						180.5	182.0	1.5
		alteration dominated by quartz - calcite	53307	nil						182.0	183.5	1.5
		epidote- chlorite, occasional hematite	53308	tr.						185.0	106.5	1.5
		along hair fractures, parallel to schistosity,	53309	tr.						188.0	189.5	1.5
		in schlieric, stringers, veinlets (178.5 calcite	53310	tr.						190.8	192.0	1.2
		vein), garnets along fractures with alteration										
		halo. Fracture angles 50° - 60° dominant with										
		some angles ranging between 20° - 40°,										
		minor pyrite mineralization as traces, specks										
		and local impregnation; and on fractures										
		enrichment in alteration zone common										
		mainly unmagnetic or weakly magnetic										

DIAMOND DRILL CORE LOG

Sheet No. 7

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
192.0	201.5	same as above, alteration pattern	53311	tr.						192.0	193.5	1.5
		however changes more to schlieric and	53312	tr.						195.05	196.5	1.45
		stringers with strong epidotization, fracturing	53313	tr.						196.5	198.0	1.5
		weak to medium	53314	tr.						199.5	201.0	1.5
		non-magnetic to very weakly magnetic	53315	tr.						202.5	204.0	1.5
			53316	nil						206.0	207.5	1.5
201.5	208.0	medium to fine grained	53317	0.25						210.0	211.5	1.5
		meta-basalt with moderate	53318	tr.						214.0	215.5	1.5
		alterations, weakly magnetic	53319	tr.						218.0	219.5	1.5
		and medium fracturing	53320	tr.						221.0	222.0	1.0
208.0	222.0	fine to more medium grained										
		meta-basalt with minor										
		alteration dominated by epidote										
		and calcite - weak fracturing										
		210 - 214 redish shimmer due to										
		weak hematization, 214 - 222										
		andesitic composition (gradual change)										

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DIAMOND DRILL CORE LOG

Sheet No. 8

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
222.0	225.0	transition zone dominated by	53321	tr.						223.5	225.0	1.5
		quartz - calcite alteration and	53322	nil						225.0	226.5	1.5
		calcite breccia 224 -225; chloritization increa-	53323	tr.						226.5	228.0	1.5
		sing, matrix fine, colour: dark green	53324	nil						229.5	231.0	1.5
		fracturing medium to strong	53325	nil						232.5	234.0	1.5
		40° - 60° dominant but 20° - 30° present,	53326	tr.						235.5	237.0	1.5
		some specks of pyrite										
		carbonate shear 50° at 222.3										
225.0	236.7	shear zone, highly magnetic, dark green,										
		meta-basalt, strongly sheared										
		with numerous chlorite - talc										
		fractures, very little calcite										
		veining, traces of pyrite sometimes enriched										
		on fractures,										
		fracture directions same as above,										
		flat lying fractures eventually slightly more										
		common, very strong chlorite - talc										
		alteration 235.8 - 236.6										

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DIAMOND DRILL CORE LOG

Sheet No. 9

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
236.7	242.5	transition zone	53327	tr.						237.0	238.5	1.5
		strongly magnetic silicious meta-basalt,	53328	nil						240.0	241.5	1.5
		dark green with some redish (hematite)	53329	nil						241.6	242.5	0.9
		staining mainly on fractures, strongly	53330	tr.						242.6	244.0	1.4
		fractured and sheared	53331	tr.						245.0	246.0	1.0
			53332	nil						246.0	247.0	1.0
		shears 236.5 - 237.0 ; 237.6 (10cm) ;	53333	nil						247.0	248.0	1.0
		238.0 - 238.3 ; 240.1 - 242.5	53334	nil						248.0	249.0	1.0
		only some calcite, quartz - veinlets	53335	nil						249.0	250.0	1.0
			53336	1.38						250.0	251.0	1.0
242.5	255.5	Chert non-magnetic (silicified zone?), dense	53337	0.50						252.0	253.0	1.0
		grey to beige, medium fracturing	53338	0.25						253.0	254.0	1.0
		with short section of strong	53339	0.25						254.0	255.0	1.0
		fracturing, weakly mineralized	53340	0.25						255.0	256.0	1.0
		with pyrite as massive lenses (3.0 x 0.5 cm, max)										
		and on fractures calcite - chlorite breccia at										
		251 - 251.3 followed by impregnation of fine										
		grained pyrite (pyrite specks and massive pyrite										
		on fractures)										

NE-12 LF C-156

DIAMOND DRILL CORE LOG

Sheet No. 10

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	CORE LENGTH ACC WIDTH
242.5	255.5	continue ——	53341	tr.						256.0	257.0	1.0
		from 251.3 - 252.0 ; red jasper	53342	tr.						257.0	258.0	1.0
		(hematite - quartz) fractures common	53343	0.25						258.0	259.0	1.0
			53344	0.25						259.0	260.0	1.0
		fracture directions strongly varying	53345	tr.						260.0	261.0	1.0
		with angles between 50° - 70° dominating	53346	0.25						261.0	262.0	1.0
		mineralization angles 60° - 90°	53347	tr.						262.0	263.0	1.0
			53348	tr.						263.5	265.0	1.5
255.5	264.8	silicified meta-basalt, magnetic,										
		dark grey green to light pale green,										
		medium to strongly fractured,										
		with flat and steep angles occuring,										
		angles 5° - 25° common										
		quartz - calcite breccia at 265.5 - 264.60										
		occasional quartz - epidote - chlorite										
		alteration zones										

NE-12 LF C-155

DIAMOND DRILL CORE LOG

Sheet No. 11

PROPERTY HARKER-GARRISON

HOLE No. HG-86-3

metres FROM	metres TO	DESCRIPTION	SAMPLE No.	gr/T AU	gr/T AG	% CU	% ZN	% NI		CORE LENGTH FROM	CORE LENGTH TO	ACC WIDTH
264.8	270.3	CHERT non-magnetic,	53249	tr.						265.0	266.0	1.0
		grey to beige, mainly weakly	53250	tr.						266.0	267.0	1.0
		mineralized except a fracture	53251	tr.						267.0	268.0	1.0
		at 270.2 with pyrite (267.62 & 267.79)	53252	0.25						268.0	269.0	1.0
		moderate to strong fracturing	53253	tr.						269.0	270.3	1.3
270.3	metres	END OF HOLE										

NE-12 LF C-155

Natural Resources

(Geophysical, Geological, Geochemical and Expenditures)

22/87

Mining Act 2971 3

Note: – exceeds space on this form, attach a list.
– Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
– Do not use shaded areas below.

Type of Survey(s)

Geo[redacted]cal

Claim Holder(s)

Lynx-Canada Explorations Limited

Address

Suite 1434 - 800 Dorchester Blvd. West, Montrea[redacted]

32D12SW0062 2.9713 HARKER

900

Survey Company	Date of Survey (from & to)	Total Miles of line Cut
Winfried Brack, Ph.D.	5 05 86 (Day Mo. Yr.) 17 05 86 (Day Mo. Yr.)	

Name and Address of Author (of Geo-Technical report)

Winfried Brack, Ph.D.

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions: For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	20
	Geochemical	
Man Days: Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

RECEIVED
LARDER LAKE MINING DIVISION
JAN 22 1987
4.15 pm

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	765892	20
	765893	20
	765894	20
	765895	20
	765896	20
	765897	20
	765898	20
	765899	20
	765900	20
	765901	20
	765902	20
	765903	20
	765904	20
	765905	20
	765906	20
	765907	20
	765908	20
	765909	20
	765910	20
	765911	20
	765912	20
	765913	20
	765914	20

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
L	765915	20

RECEIVED
FEB 17 1987
MINING LANDS SECTION

Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Total number of mining claims covered by this report of work: 24

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
480	JAN 22 1987	M. A. Guerrera
	Date Approved as Recorded	Branch Director
	87.2.20	

Date	Recorded holder or Agent (Signature)
JAN. 20/87	

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

Winfried Brack - 14 332 Meadowvale

Pierrefonds, Que. H9H 1N9

Date Certified: Jan 20, 1987

Certified by (Signature): W. Brack

1362 (81/9)

Ontario

Ministry of Natural Resources

File_____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOLOGICAL

Township or Area HARKER - GARRISON TOWNSHIPS

Claim Holder(s) LYNX-CANADA EXPLORATIONS LTD.

Survey Company WINFRIED BRACK, Ph.D.

Author of Report WINFRIED BRACK, Ph.D.

Address of Author 14 332 MEADOWVALE, PIERREFONDS, QUEBEC

Covering Dates of Survey MAY 5 TO MAY 17, 1986
(linecutting to office)

Total Miles of Line Cut ALREADY SUBMITTED

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	
–Magnetometer	
–Radiometric	
–Other	
Geological	20
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer_____ Electromagnetic_____ Radiometric_____
(enter days per claim)

DATE: Jan. 20, 1987 SIGNATURE: W. Brack
Author of Report or Agent

Res. Geol._____ Qualifications This file

Previous Surveys

File No.	Type	Date	Claim Holder

MINING CLAIMS TRAVERSED
List numerically

(prefix) (number)

L765892	L765893
L765894	L765895
L765896	
L765897	
L765898	
L765899	
L765900	
L765901	
L765902	
L765903	
L765904	
L765905	
L765906	
L765907	
L765908	
L765909	
L765910	
L765911	
L765912	
L765913	
L765914	
L765915	

TOTAL CLAIMS 24

If space insufficient, attach list

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION
RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

_____

_____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

_____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

_____

Drainage Development _____

Estimated Range of Overburden Thickness _____

_____

_____

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

_____

_____

_____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

ANALYTICAL METHODS

Values expressed in: per cent ☐
p. p. m. ☐
p. p. b. ☐

Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

_____

_____

_____

_____

_____

_____

_____

_____

_____

LAMPLUGH TWP.

GARRISON TWP.

HOLLOWAY TWP.

ELLIOTT TWP.

THE TOWNSHIP OF

HARKER

DISTRICT OF COCHRANE

SEP 17 1986

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.
PATENTED S.R.O.	

NOTES

400' Surface Rights reservation along the shores of all lakes and rivers.

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
R1	NRW 5/85	MAR.5/85	M.R.O.	
R2	NRW 15/85 Sec. 36/80	NOV.5/85	M.R. & S.R.	
R3	O. 4/86	JAN.31/86	M.R. & S.R.	
R4	W. 9/86	JAN.24/86	M.R. & S.R.	

#2

PLAN NO. G-3643

Ministry of Natural Resources

Ministry of Northern Development and Mines

Ontario

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
(R) Sec. 36/R.S.O./80.	NRW.63/83	2/12/83	S.R.& M.R.	

— Applies under Public Works Act - Proposed hydro line.

ABITIBI INDIAN RESERVE No. 70

RAND TOWNSHIP

MICHAUD TOWNSHIP

HARKER TOWNSHIP

THACKERAY TOWNSHIP

Tanager Cr.
McCool Cr.
Collins L.
Twin Lakes
Turner L.
Clermont L.
Garrison
Halfway L.
Rothole Lakes
Dewhirst L.
Beaton L.
Ore Car L.
Lydon L.
Thackeray
THE CANYON
Cr.
101

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 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	(R)
CANCELLED	⊗
SAND & GRAVEL	(S)

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.

500 0 1000 Metres
10 0 10 20 30 40 50 60 70 Chains
500 0 1000 2000 3000 4000 5000 Feet

SCALE 1:20 000

DEC 2 1986

2.9713

TOWNSHIP
GARRISON

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
MINING DIVISION
LARDER LAKE
LAND TITLES / REGISTRY DIVISION
COCHRANE

Ontario
Ministry of Natural Resources
Ministry of Northern Development and Mines

Date SEPTEMBER, 1986
Number G-3638

210

GARRISON TWP.
HARKER TWP.

765 904
765 905
765 914
765 906
765 913
765 915
765 907
765 912
765 903
BEAVER POND
765 911
765 902
765 908
765 909
765 910
765 901
765 896
765 897
765 895
765 898
765 894
765 899
765 893
765 900
765 892

clay overburden

FLOODED AREA

TRAIL

SHUNSBY GOLD OCCURRENCE

CABIN

PIT

BEAVER POND

-TL.9W. -800W. -700W. -600W. -TL.5W. -400W. -300W. -TL.2W. -200W. -100W. -BL.0 (360°) -100E. -200E. -300E. -400E. -500E -TL.5E. -600E -700E -800E -TL.9E.

-9N -8N -7N -6N -5N -4N -3N -2N -1N -0 -1S -2S -3S -4S -5S -6S -7S -8S -9S -10S -11S -12S -13S -14S

-1000W -900W -TL.8W -800W -700W -600W -500W -400W -300W -200W -100W -BL.0 -100E -200E -300E -400E -500E -600E -700E -800E -900E

LEGENDE GEOLOGIQUE / GEOLOGY LEGEND

V7	Basalte a) coussinée b) diabase c) brèche de coulée d) tuf, agglomerat p) porphyritique Basalt a) pillowed b) diabase c) flow brecciated d) tuff, agglomerate p) porphyritic	Affleurements Exposed rocks
1S	Syénite p) porphyre Syenite p) porphyry	Aire d'affleurements Outcrop boundary
1D	Diabase Diabase	Affleurement isolé Small outcrops
mag	Altérations magnétiques Magnetic alterations	Faille (présumée) Fault (inferred)
Py	Pyrite Pyrite	Foliation (verticale) Shear foliation (vertical dip)
Bx	Brèche Breccia	Diaclases (verticale) Joint (vertical dip)
Ep	Epidote Epidote	Stratification (verticale) Bedding (vertical dip)
Sil	Silicifiée Silicified	Coussin (direction des sommets) Pillow showing direction of topography
q.v.	Veine de quartz Quartz vein	Stries glaciaires Glacial striations

Tranchée Trench	
Poteau de claim (a-localiser; b-estimer) Claim post (a-localized; b-estimated)	
Ruisseau Creek	
Marécage Swamp	
Digue de castor Beaver pond	
Ligne de claim Claim line	

Rand Lamplugh
Garrison Harker
Matheson 101 Duparquet
1000 0 1000 2000 3000
METRES

PROPERTY LOCATION MAP

220

29713

LYNX-CANADA EXPLORATIONS LIMITED

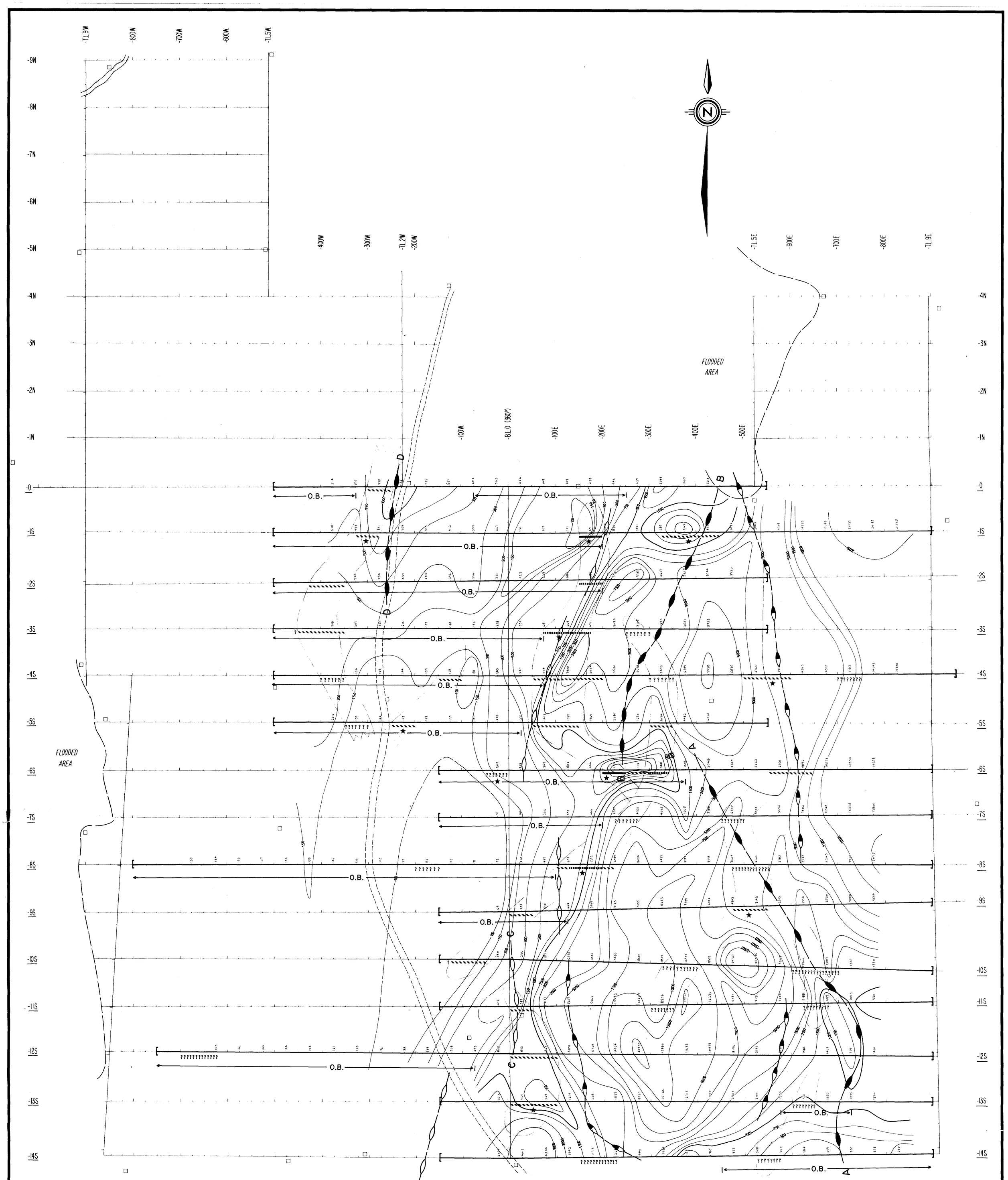
PROJET HARKER-GARRISON PROJECT

CARTE GEOLOGIQUE
GEOLOGICAL MAP

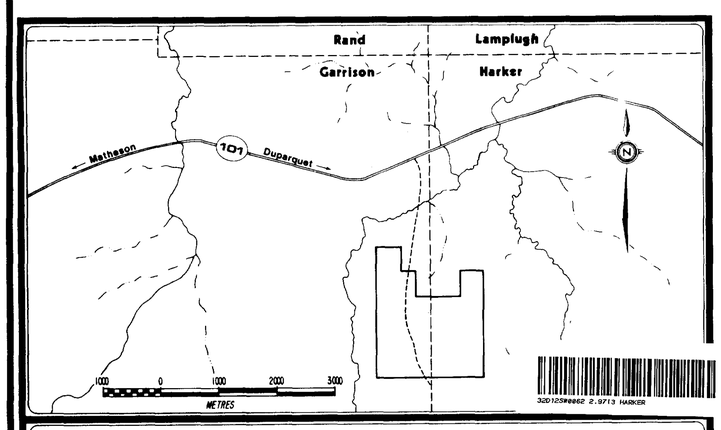
OPTION STOCH
STOCH OPTION

CANTON HARKER-GARRISON
HARKER-GARRISON TOWNSHIP

COMPILATION COMPILATION			ECHELLE SCALE 1: 2500
DESSIN DRAWING	M.L	JAN 87	SNRC Nº NTS Nº 32D/5-32D/12
NOTES NOTES			CARTE/MAP Nº. - 1 -
DOSS Nº FILE Nº		PROJET Nº PROJECT Nº	



29713



PROPERTY LOCATION MAP

230

- STRONG CONDUCTOR
- WEAK CONDUCTOR
- GEOLOGICAL CONTACT
- O.B. – OVERBURDEN
- ★ – ANOMALIES DESIGNATED FOR DETAIL MEASUREMENTS
- ANOMALOUS I.P. ZONE

DEFINIE, PROBABLE, POSSIBLE, INDICATION ?????? — LIMITE RESISTIVITE BASSE

LONGUEUR DU LEVE

DISPOSITION D'ELECTRODES (DIPOLE-DIPOLE)
X = 50m.

CONTOUR de RESISTIVITE

Intervalles logarithmiques 1, 1.5, 2, 3, 5, 7.5, 10

Calculs par triangle :

357 ← lecture mise en plan (OHM-metres)
380 N = 1
270 462 N = 2
152 338 562 N = 3

LYNX - CANADA EXPLORATIONS LIMITED

PROJET HARKER - GARRISON PROJECT

POLARISATION PROVOQUEE

INDUCED POLARIZATION AND RESISTIVITY

VAL D'OR GEOPHYSIQUE LTEE		DATE	ECHELLE / SCALE: 1:2500
REVISED: DRAWING: R.C.N.		23/12/86	S.N.R.C. Nº.: N.T.S. Nº.:
INTERPRETE: INTERPRETED:			CARTE / MAP Nº. - 2 -
DOSS. Nº.: FILE Nº:	PROJET Nº.: PROJECT Nº.		

LEGENDE DE GEOPHYSIQUE / GEOPHYSIC LEGEND

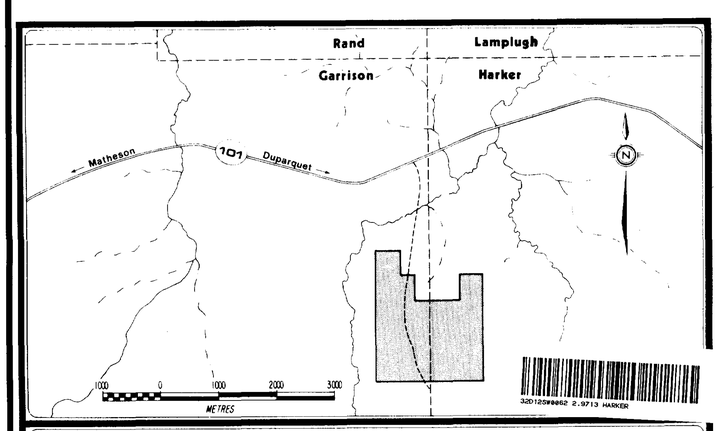
- MAG. FORT / MAG. HIGH ›3000 gammas
- MAG. FAIBLE / MAG. LOW ‹1000 gammas
- ZONE ANOMALE I.P. ANOMALOUS ZONE
- DEFINIE / DEFINITE
- PROBABLE
- POSSIBLE
- INDICATION
- TROU DE FORAGE / DRILL HOLE

GARRISON TWP. — HARKER TWP.

LEGENDE GEOLOGIQUE / GEOLOGY LEGEND

V7	Basalte a) coussinée b) diabase c) brèche de coulée d) tuf, agglomerat p) porphyritique Basalt a) pillowed b) diabase c) flow brecciated d) tuff, agglomerate p) porphyritic
1S	Syénite p) porphyre Syenite p) porphyry
1D	Diabase Diabase
mag	Altérations magnétiques Magnetic alterations
Py	Pyrite Pyrite
Bx	Brèche Breccia
Ep	Epidote Epidote
Sil	Silicifiée Silicified
q.v.	Veine de quartz Quartz vein

- Affleurements / Exposed rocks
- Aire d'affleurements / Outcrop boundary
- Affleurement isolé / Small outcrops
- Faille (présumée) / Fault (inferred)
- Foliation (verticale) / Shear foliation (vertical dip)
- Diaclases (verticale) / Joint (vertical dip)
- Stratification (verticale) / Bedding (vertical dip)
- Coussin (direction des sommets) / Pillow showing direction of topography
- Stries glaciaires / Glacial striations
- Tranchée / Trench
- Poteau de claim (a-localiser; b-estimer) / Claim post (a-localized; b-estimated)
- Ruisseau / Creek
- Marécage / Swamp
- Digue de castor / Beaver pond
- Ligne de claim / Claim line



PROPERTY LOCATION MAP

240

2.9713

LYNX - CANADA EXPLORATIONS LIMITED

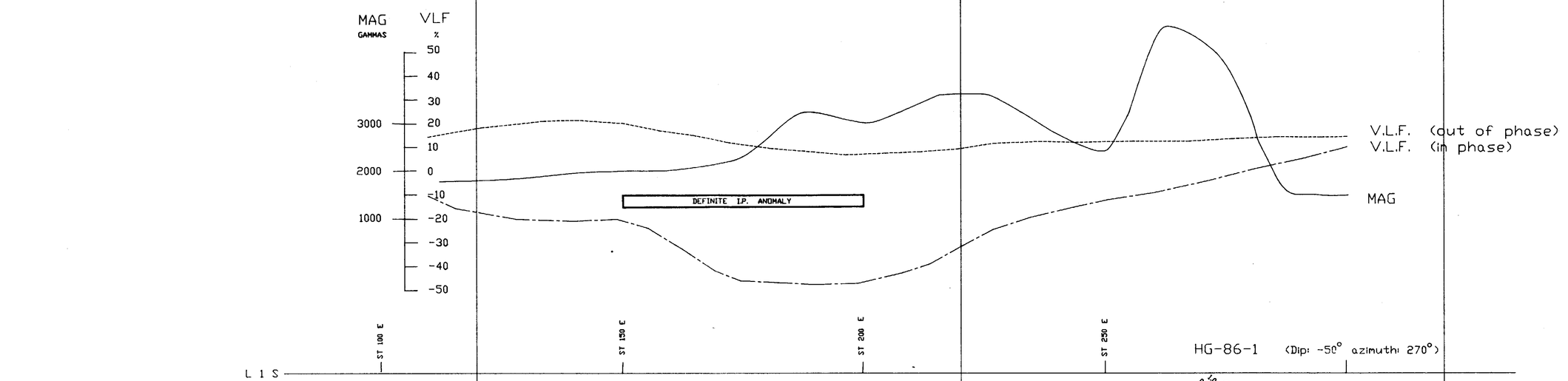
PROJET HARKER-GARRISON PROJECT

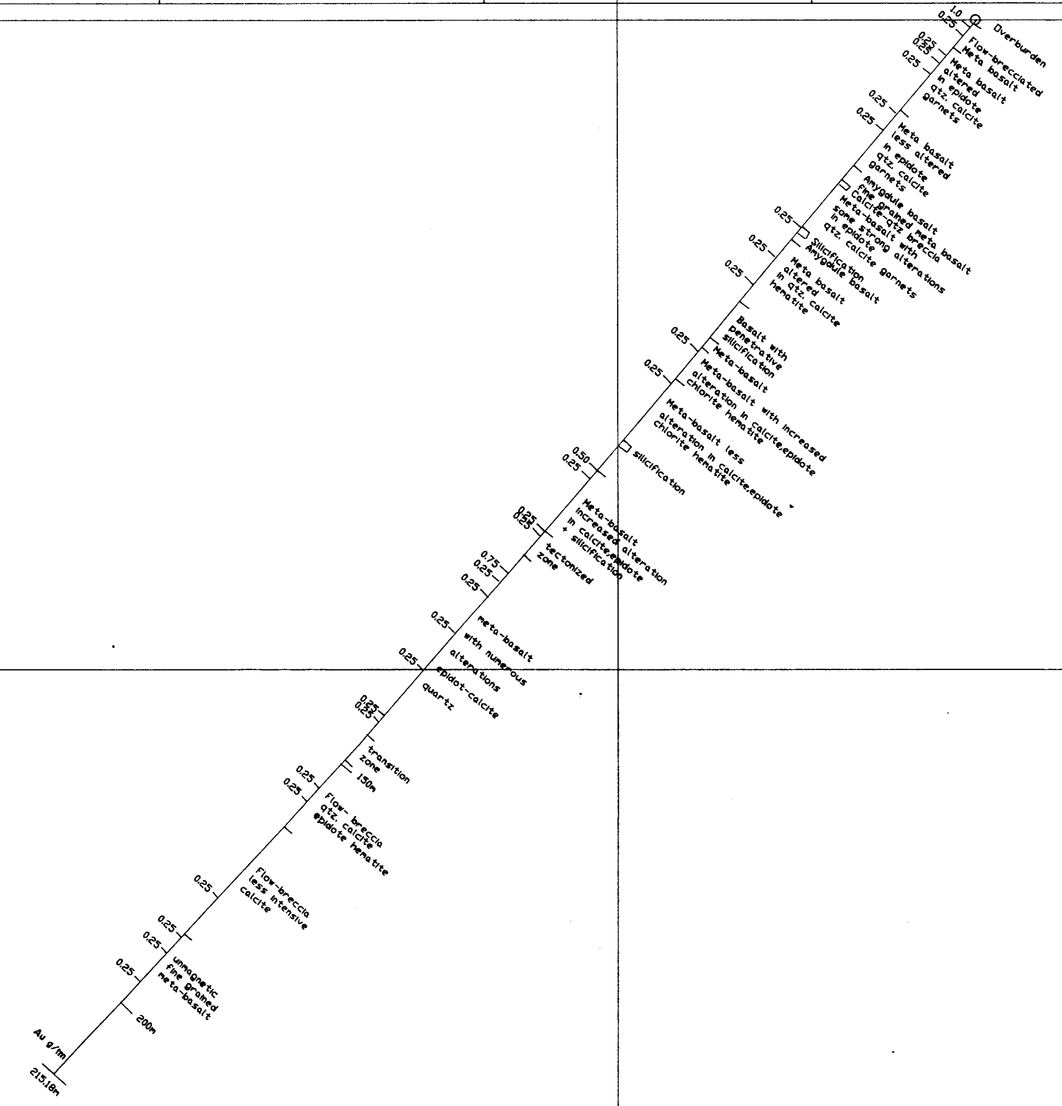
CARTE DE COMPILATION
COMPILATION MAP

OPTION STOCH
STOCH OPTION

CANTON HARKER - GARRISON
HARKER - GARRISON TOWNSHIP

COMPILATION / COMPILATION	Winfield Brady	DATE	ECHELLE / SCALE 1: 2500
DESSIN / DRAWING	M. L.	JAN 87	SNRC Nº / N T S Nº 32 D/5-32 D/12
NOTES / NOTES			CARTE / MAP Nº. - 3 -
DOSS Nº / FILE Nº		PROJET Nº / PROJECT Nº	





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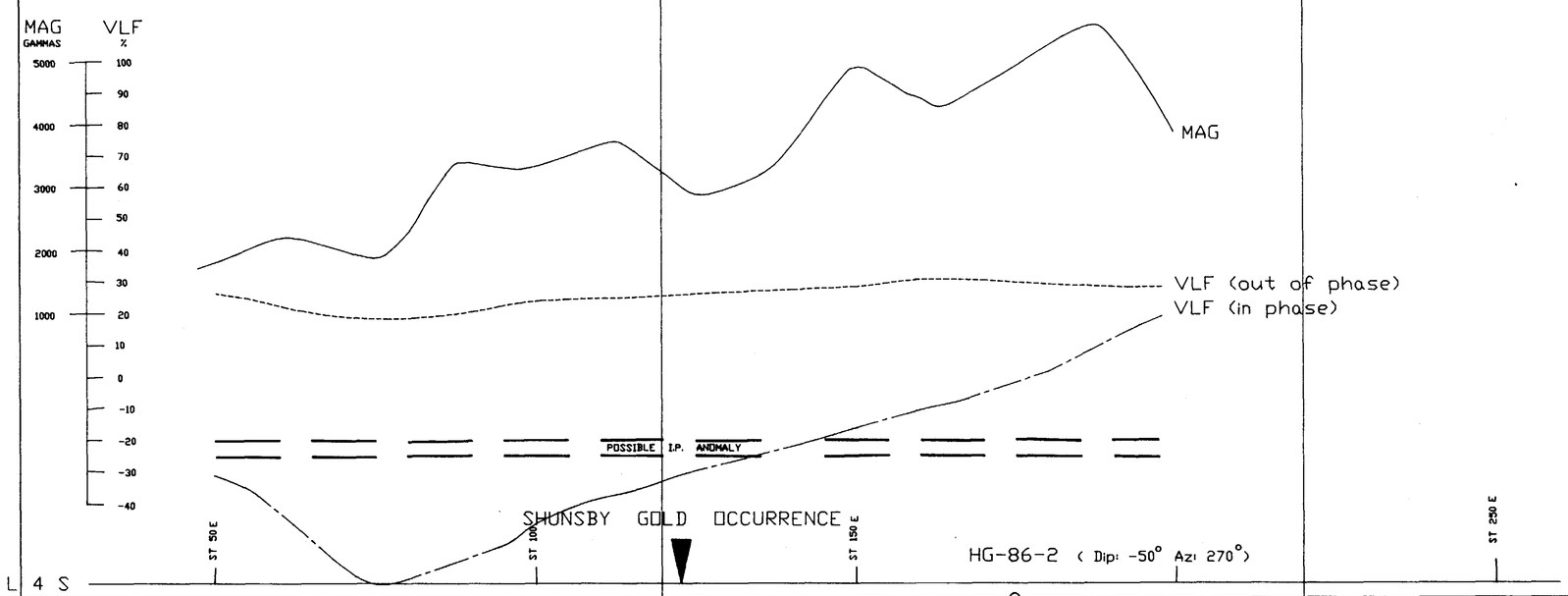
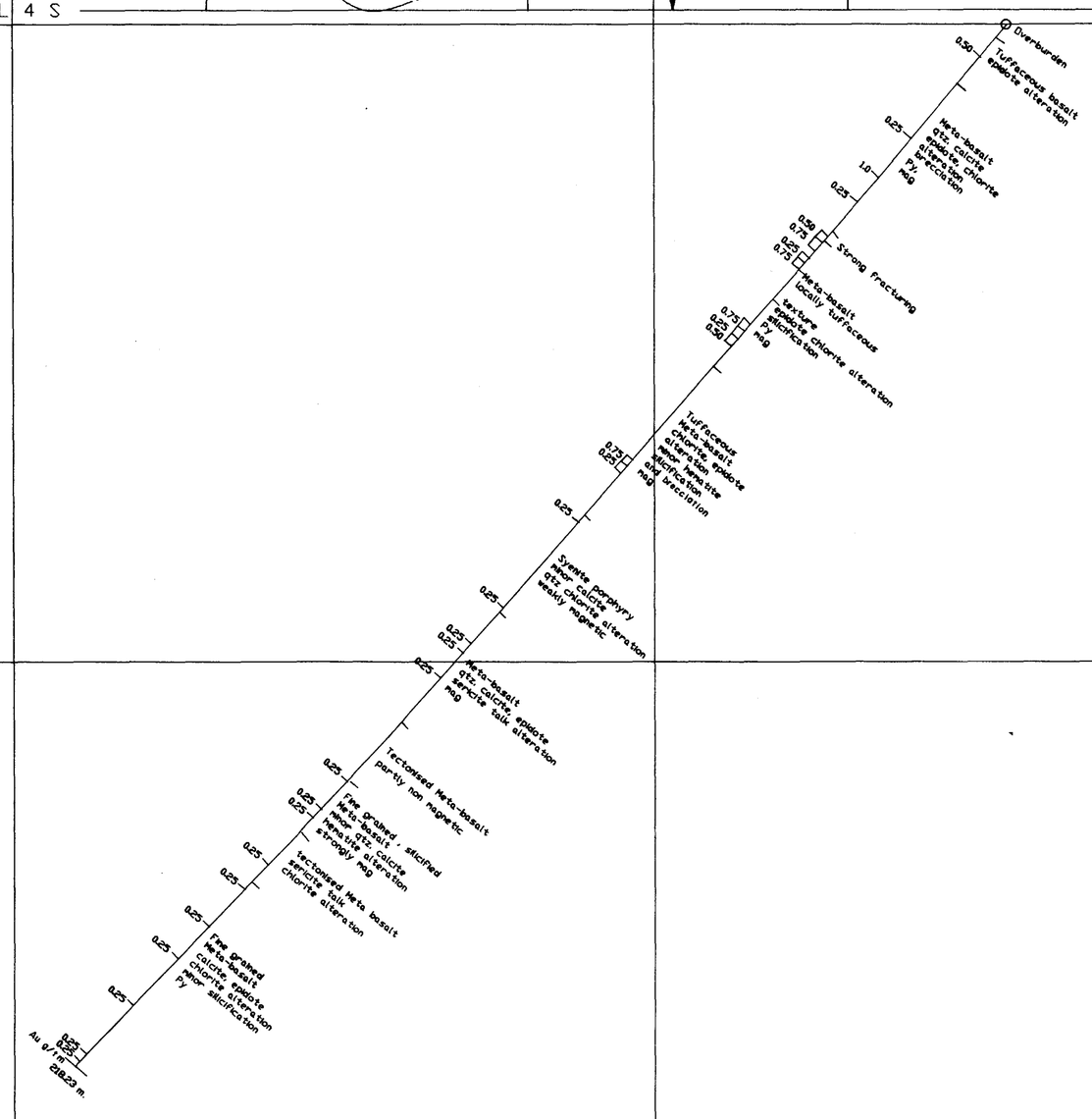
LYNX CANADA EXPLORATION LTD	
PROJECT: HARKER GARRISON	CROSS SECTION
	DDH HG-86-1
SEC50HG1	1:500

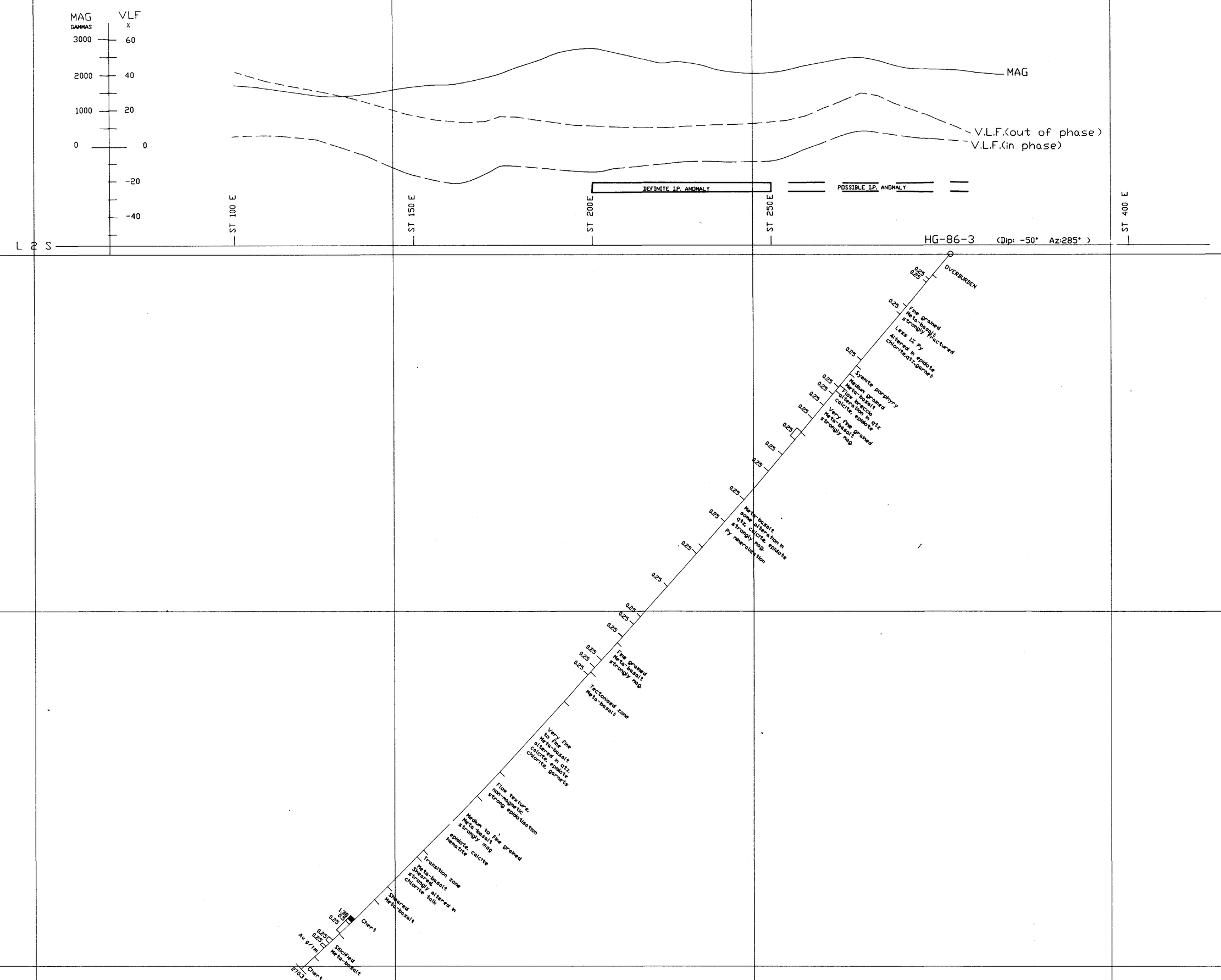
250



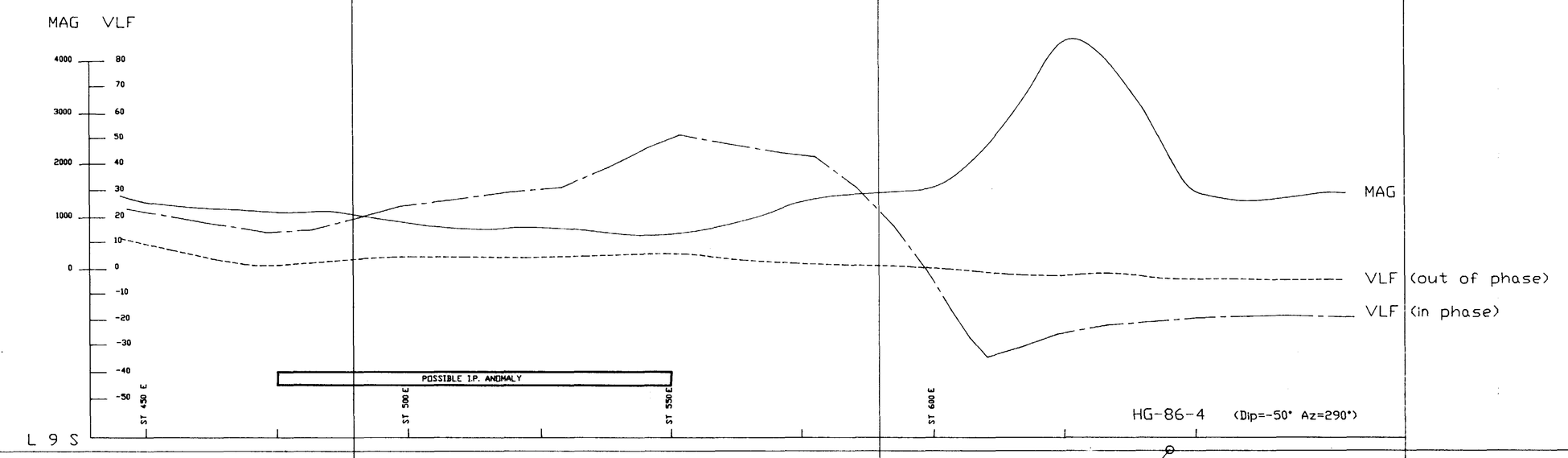


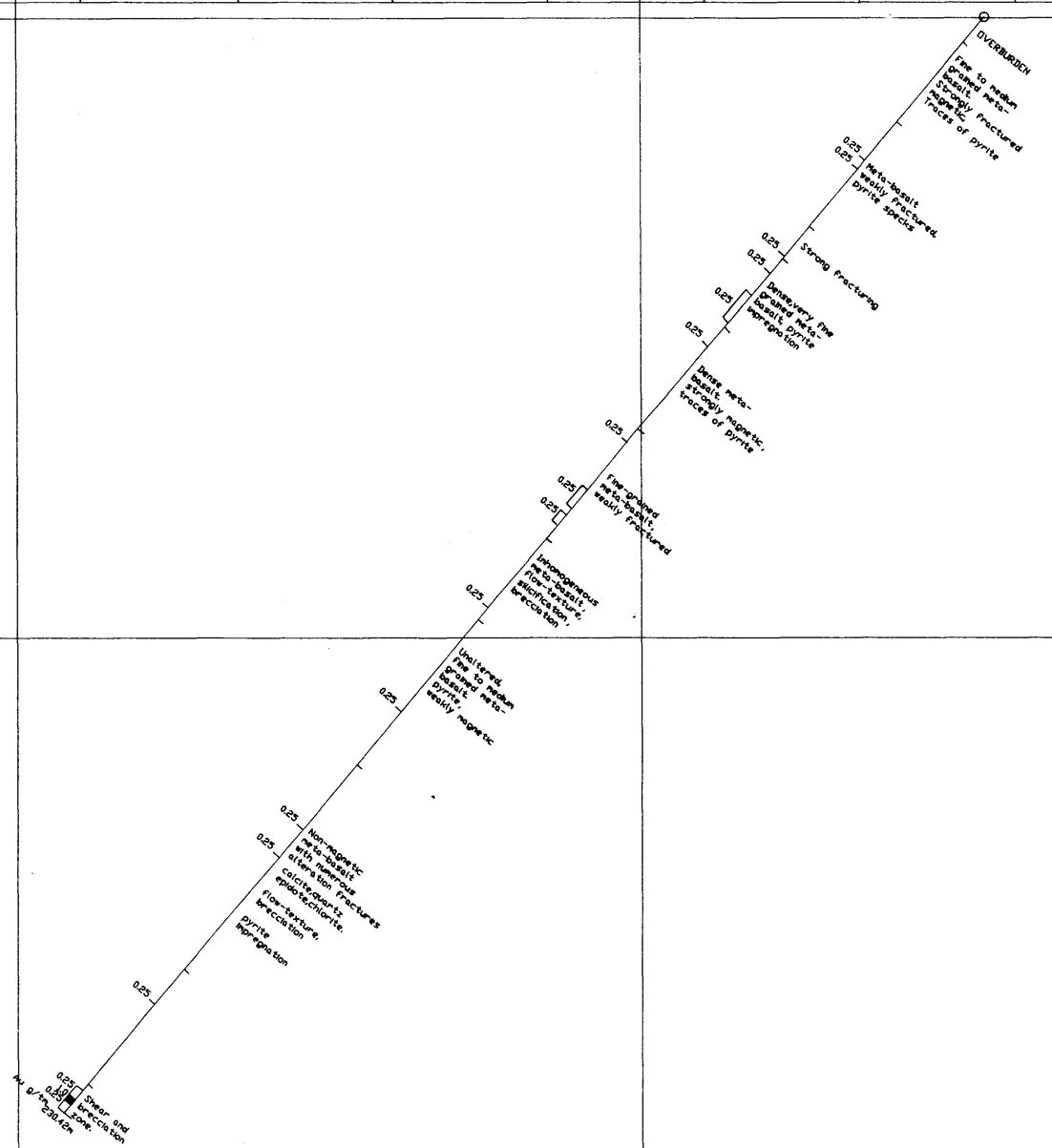
2.9713

LYNX CANADA EXPLORATION LTD	
PROJECT: HARKER GARRISON	CROSS SECTION
	DDH HG-86-2
SEC50HG2	1:500



LYNX CANADA EXPLORATION INC	
PROJECT: HARKER GARRISON	CROSS SECTION
	D.D.H. HG-86-3
SEC50HG3	1:500





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LYNX CANADA EXPLORATION LTD

PROJECT: HARKER GARRISON	CROSS SECTION
	DDH HG-86-4
SEC50HG4	1:500