

LEGEND

0 30 60 90 120 150 180 210 240 270 300 330 360 390 420 450 480 510 540 570 600 630 660 690 720 750 780 810 840 870 900 930 960 990 1020 1050 1080 1110 1140 1170 1200 1230 1260 1290 1320 1350 1380 1410 1440 1470 1500 1530 1560 1590 1620 1650 1680 1710 1740 1770 1800 1830 1860 1890 1920 1950 1980 2010 2040 2070 2100 2130 2160 2190 2220 2250 2280 2310 2340 2370 2400 2430 2460 2490 2520 2550 2580 2610 2640 2670 2700 2730 2760 2790 2820 2850 2880 2910 2940 2970 3000 3030 3060 3090 3120 3150 3180 3210 3240 3270 3300 3330 3360 3390 3420 3450 3480 3510 3540 3570 3600 3630 3660 3690 3720 3750 3780 3810 3840 3870 3900 3930 3960 3990 4020 4050 4080 4110 4140 4170 4200 4230 4260 4290 4320 4350 4380 4410 4440 4470 4500 4530 4560 4590 4620 4650 4680 4710 4740 4770 4800 4830 4860 4890 4920 4950 4980 5010 5040 5070 5100 5130 5160 5190 5220 5250 5280 5310 5340 5370 5400 5430 5460 5490 5520 5550 5580 5610 5640 5670 5700 5730 5760 5790 5820 5850 5880 5910 5940 5970 6000 6030 6060 6090 6120 6150 6180 6210 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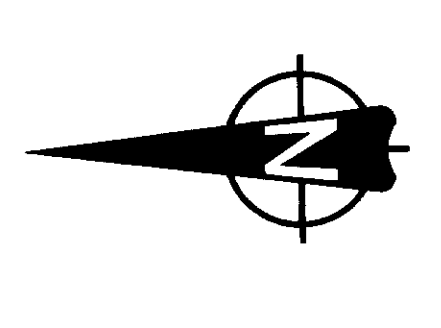
GEOPHYSICAL LEGEND

MAGNETIC SURVEY

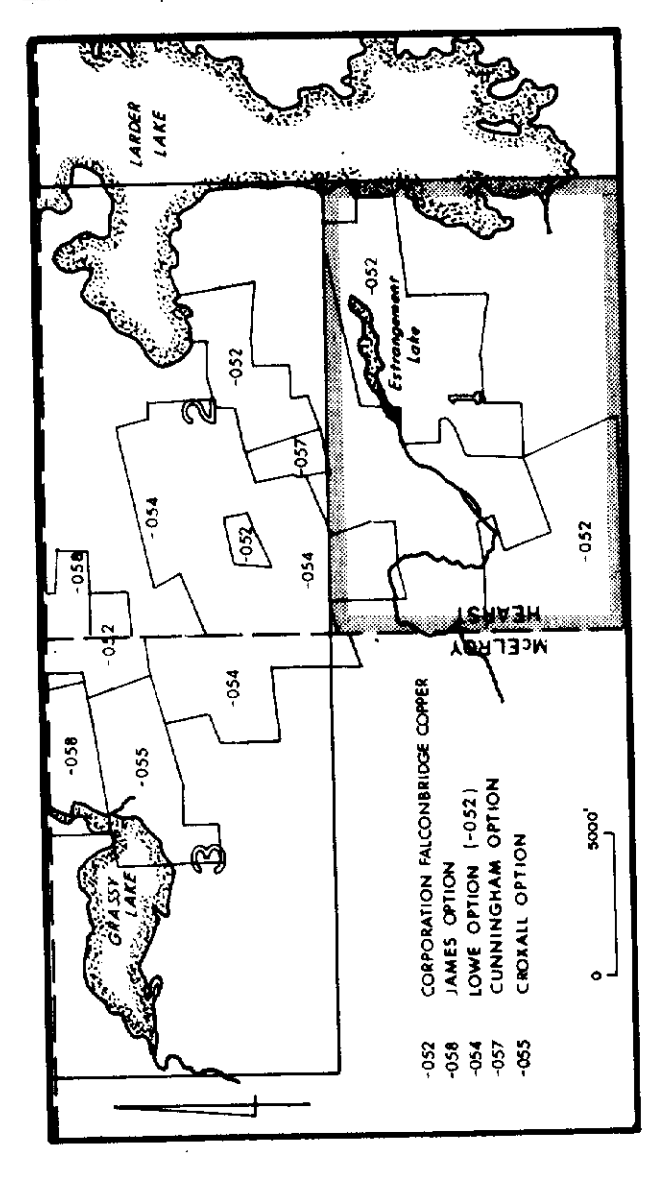
800 Magnetic contour (gamma)

Magnetic anomaly

NOTE: Add 58,000 gamma for true readings.



OM84-G-P-356
63,4636



FALCONBRIDGE LIMITED

LAKE EST TWP PROJECT, PN-660

HEARST & MELROY TWS
ONTARIO

SHEET 1

QUEBEC MAGNETIC CONTOURS

Scale 1:50,000

400 800 1200 1600

Drawn: 1985

Checked: 1985

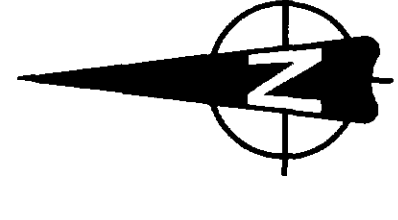
Interpreted: C. Lovell Ph. D. Sept. 1985

Plotted: 85-181-03

MELROY TWP
HEARST TWP

McVITTIE

HEARST



LARDER LAKE

DAVEY LAKE

GEOPHYSICAL LEGEND

MAGNETIC SURVEY
Magnetic contour (gamma)
Magnetic area

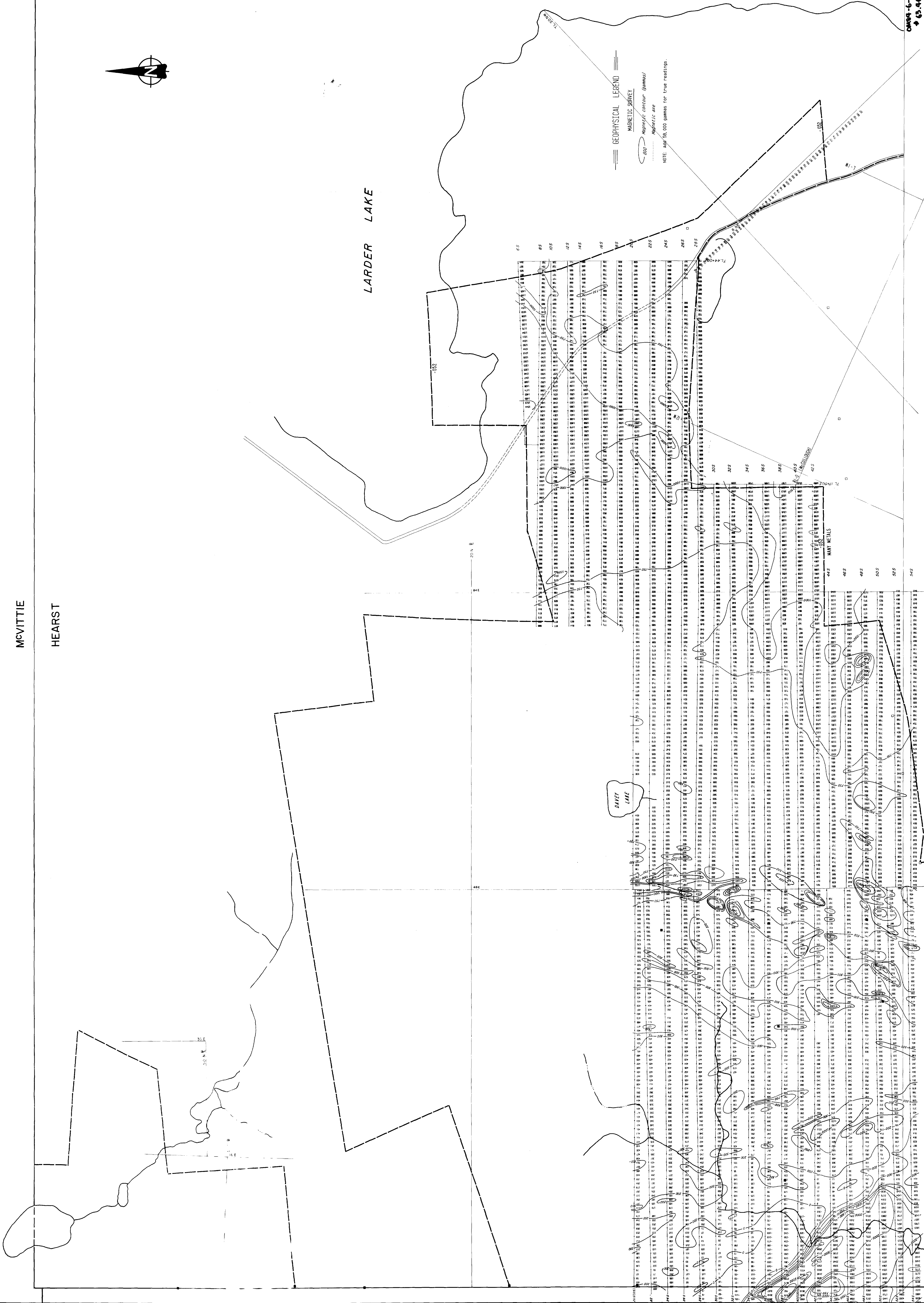
NOTE: Add 50,000 gammas for true readings.

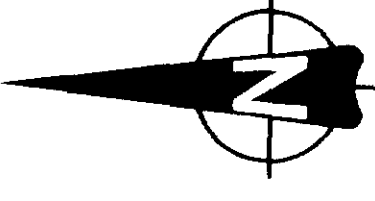
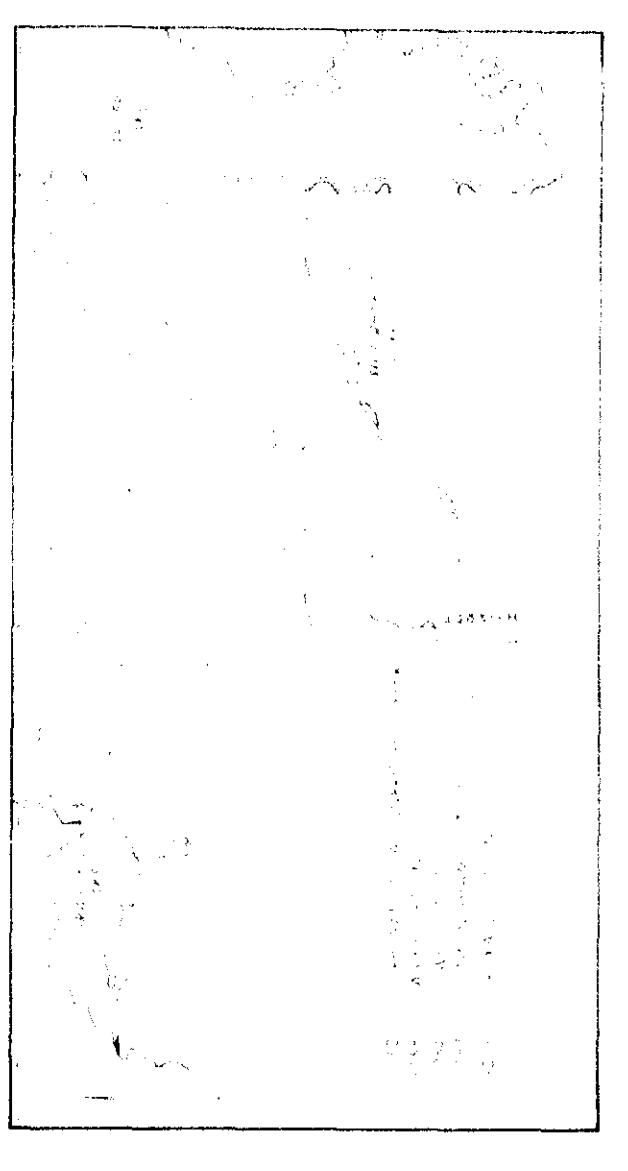
OMEGA-6-P-356
4 63 4436

FALCONBRIDGE LIMITED
HEARST TWP PROJECT, PN-660
HEARST & McLEROY TWP'S
MAGNETIC CONTOURS
SHEET 2

DATE: 1985
DRAWN BY: GEDLA LITEE
CHECKED BY: SCHIRER, MP-3
MAGNETIC GRADIOMETER

SCALE: 1:50,000
N.T.S. 32.0/4
PLAN: 65-188-11





FALCONBRIDGE LIMITED
 63-41-34
 ONTARIO
 VLF-NAA/NSS FRASER VALUES COMBINATION
 GEODESIC CONTROL POINTS
 01/86
 323/4

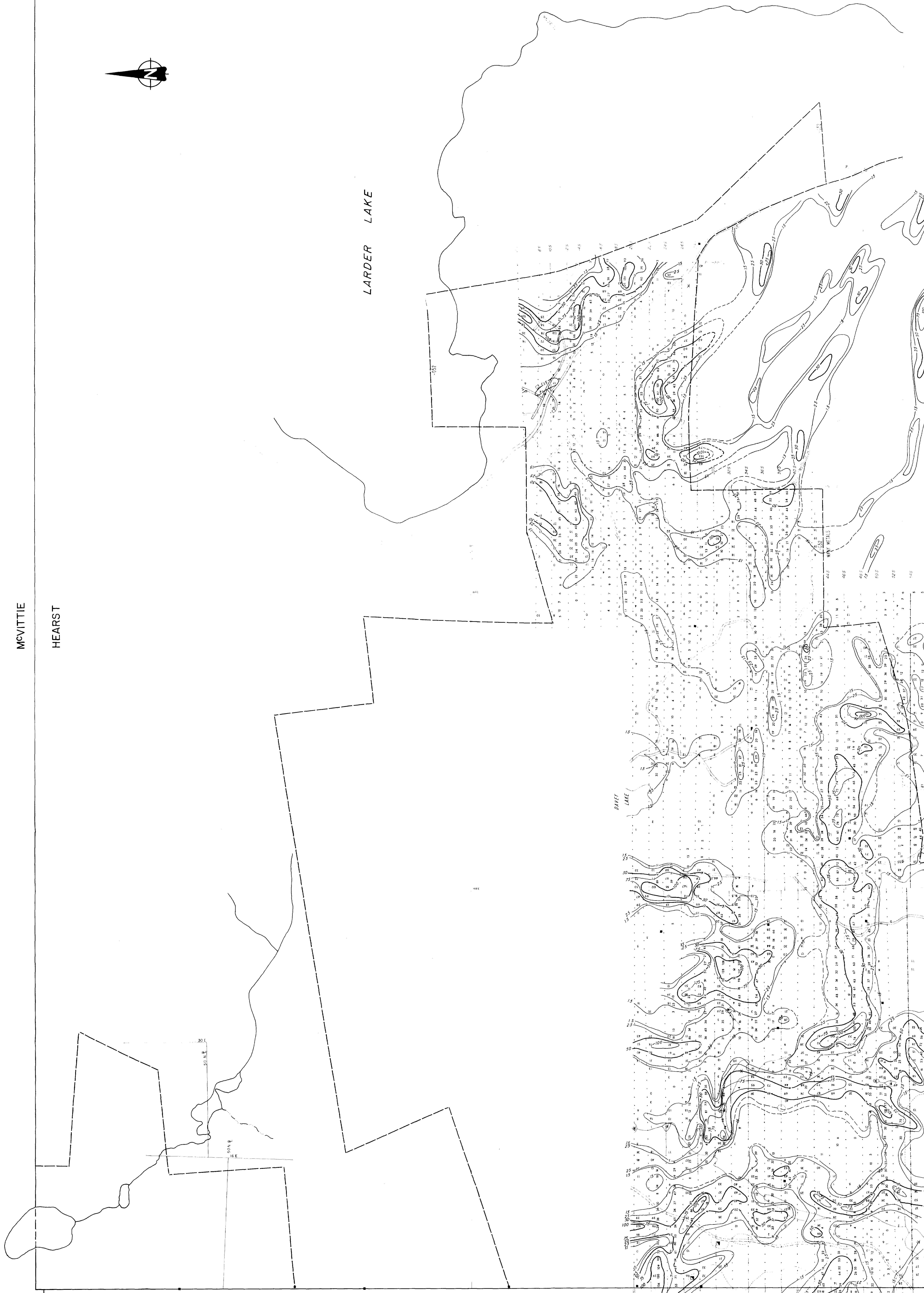
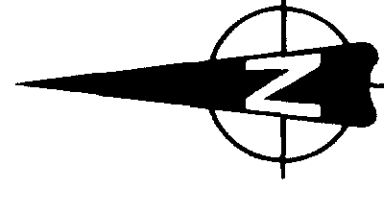


McELROY TWP
 HEARST TWP

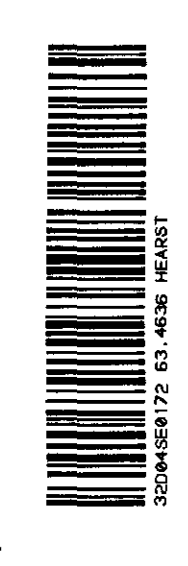
McVITTIE

HEARST

LARDER LAKE

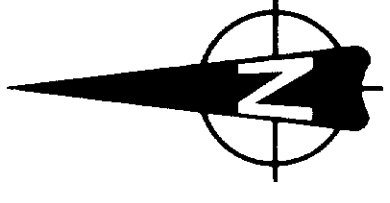


FALCONBRIDGE LIMITED
 HEARST TWP PROJECT, FN-660
 #43-4434
 HEARST & WILSON TMS
 ONTARIO
 VLF-NAA/NSS FRASER VALUES COMBINATION
 CONTOURS
 04/88
 01/88
 GEOLIA
 GEORES



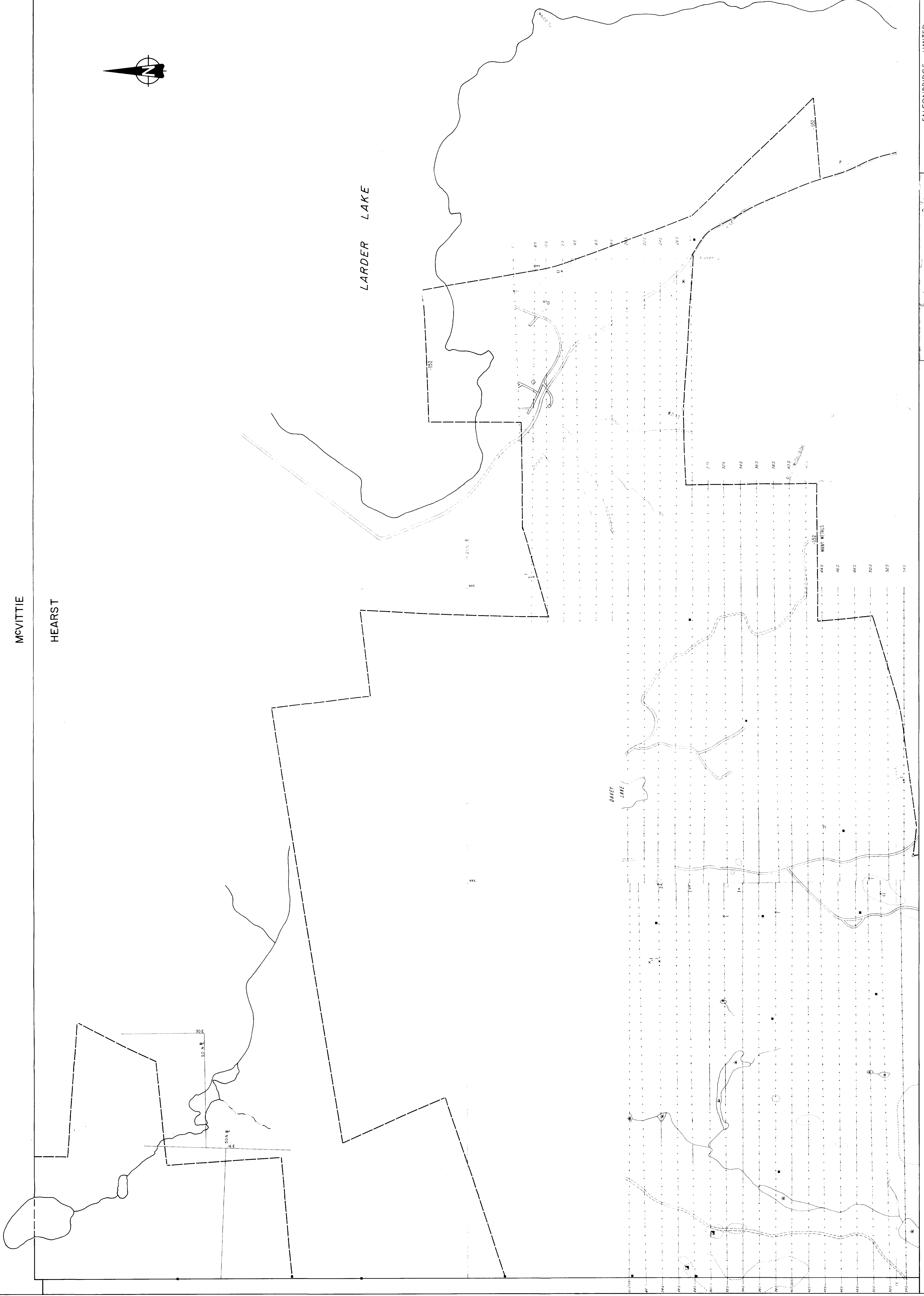
MCVITTIE

HEARST



LARDER LAKE

DAVEY LAKE

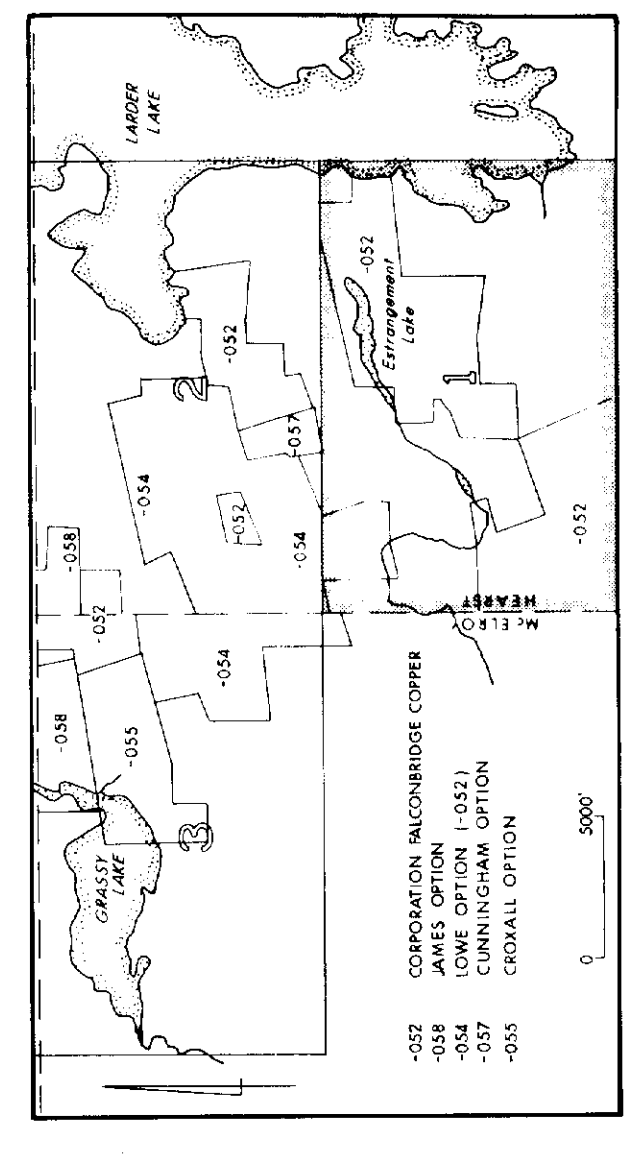


FALCONBRIDGE LIMITED
 HEARST TWP PROJECT, PN 660
 HEARST & MERRY TMS
 ONTARIO
 63-4476
 0814-G-P-356
 ROCK GEO-CHEMISTRY
 Au (ppb)

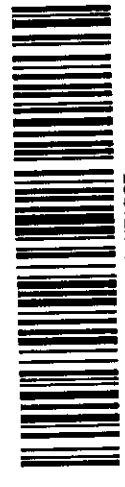
1:10,000
 1" = 1000'
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 1" = 1000'

1:10,000
 1" = 1000'
 1:10,000
 1" = 1000'



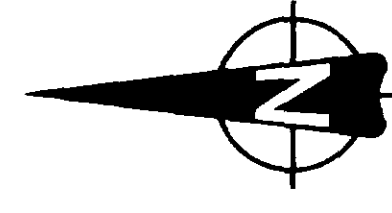


FALCONBRIDGE LIMITED
 HEARST TWP PROJECT, PN-660
 HEARST & MCELROY TOWNSHIPS
 ONTARIO
 SHEET 1
ROCK GEOCHEMISTRY
 Scale: 1" = 400'
 Date: 12/85
 Drawn: GEO385
 Checked: M. M. B. B. B.
 NT.S. 320/4

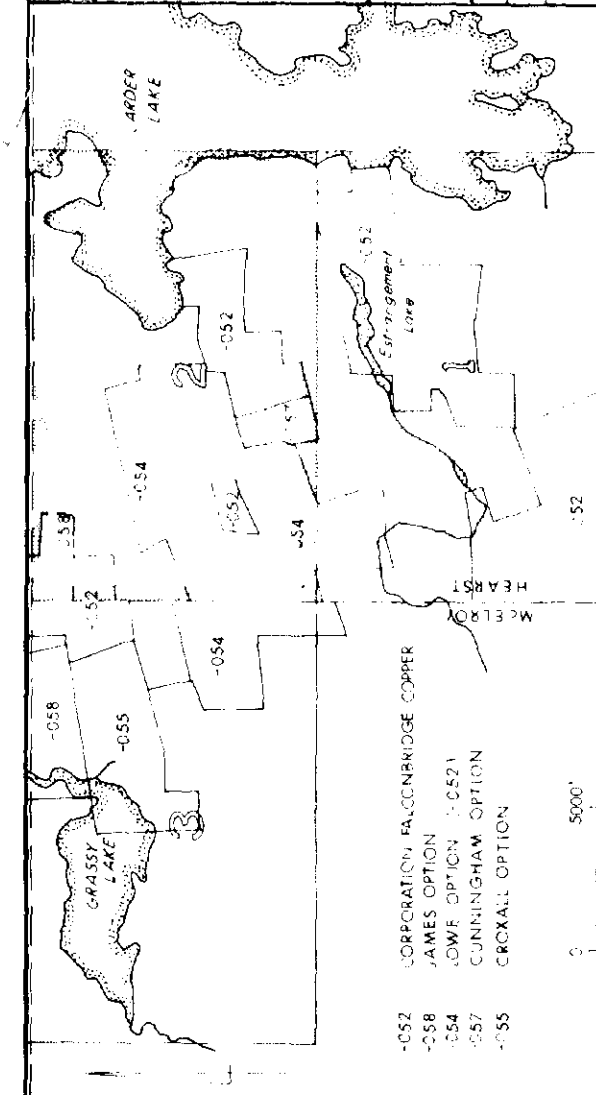
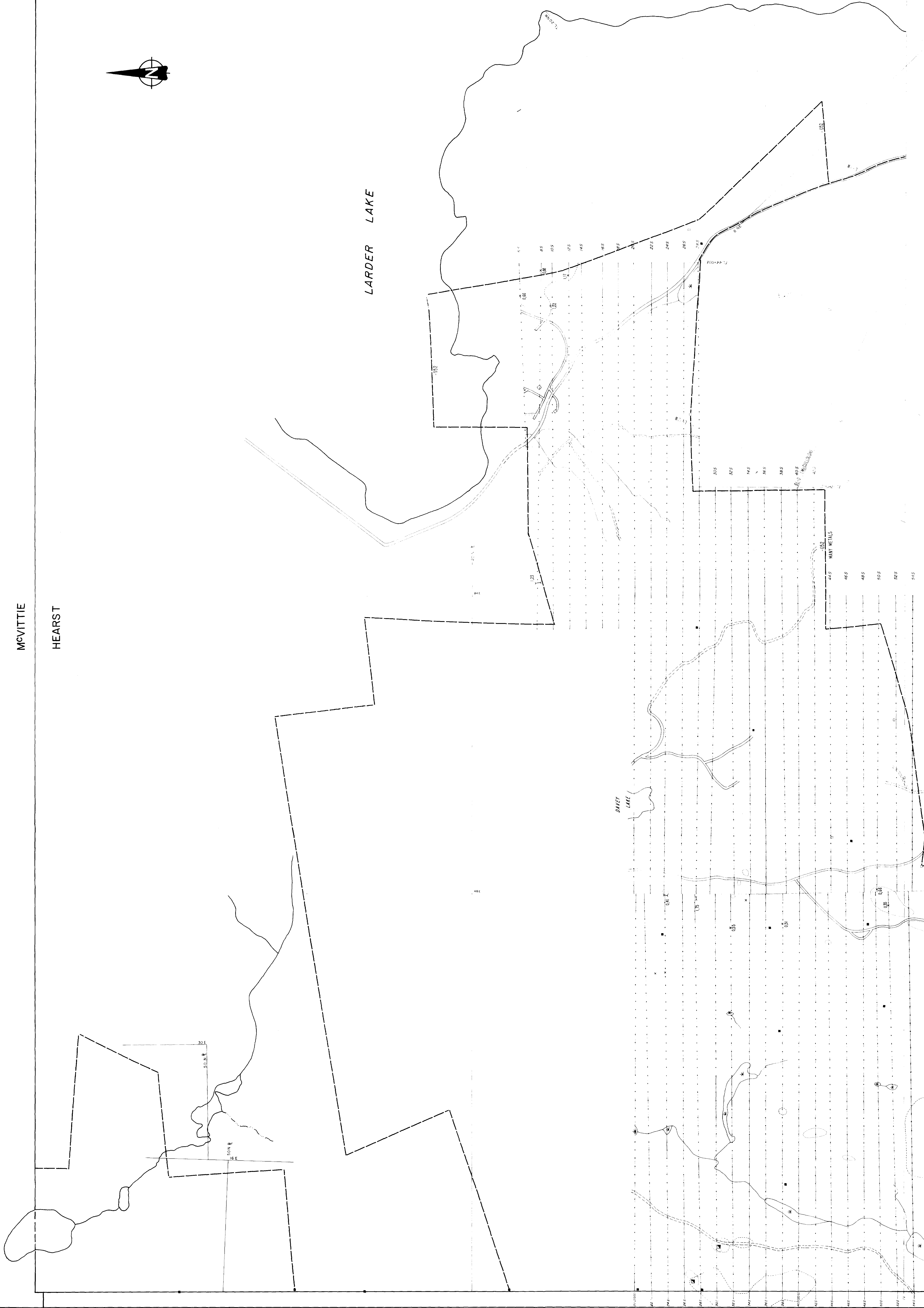


MCVITTIE

HEARST



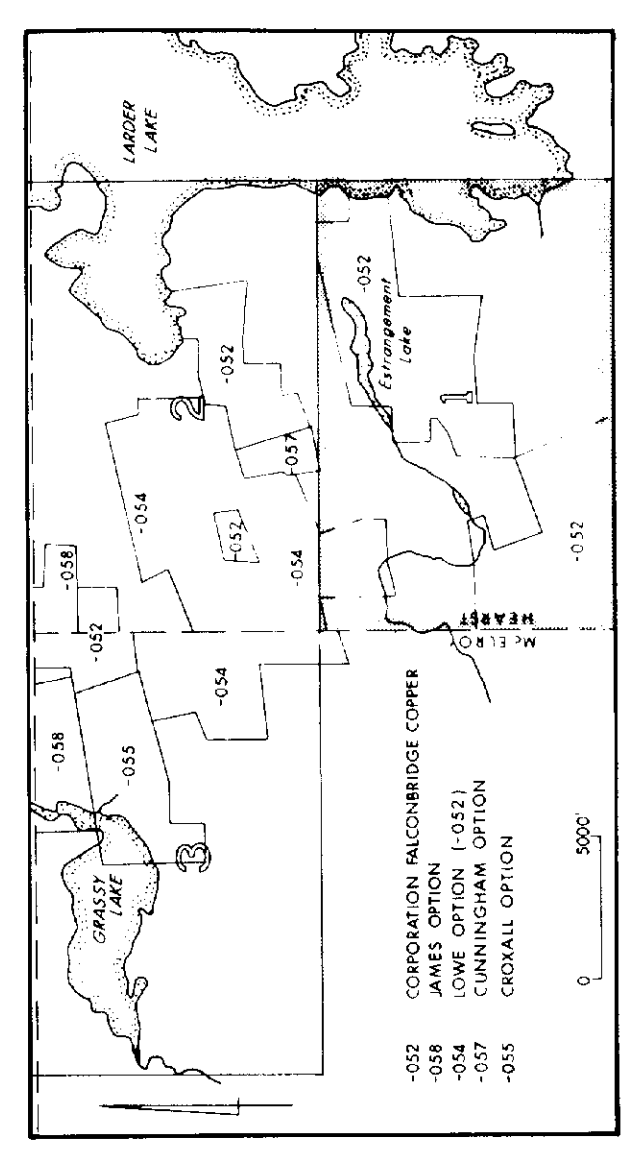
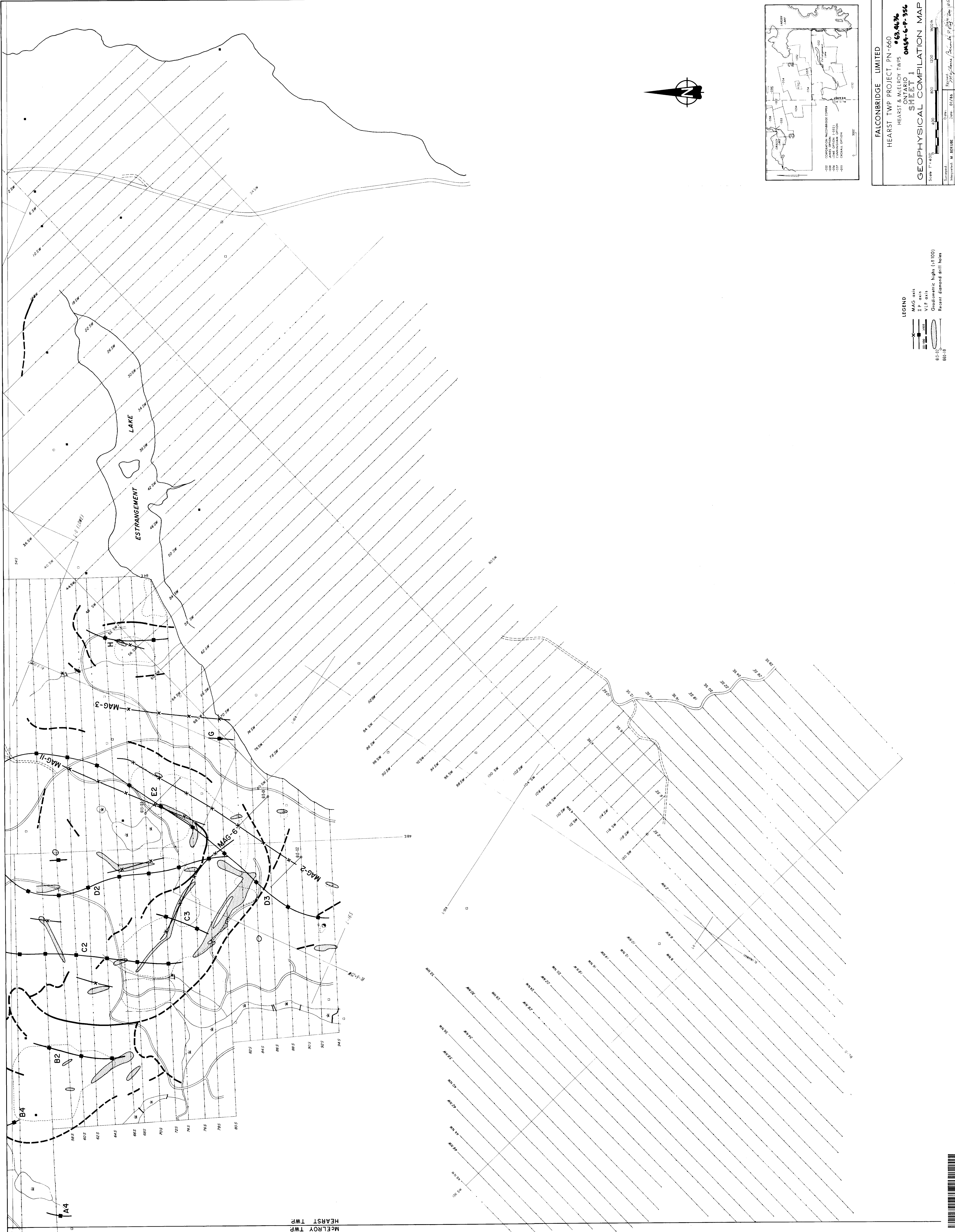
LARDER LAKE



FALCONBRIDGE LIMITED
 HEARST TWP PROJECT, PN-660
 HEARST & McLEROY TOWNSHIPS
 ONTARIO
 P 63-44-36
 OMSA-6-P-356
 ROCK GEOCHEMISTRY

Scale: 1:50,000
 Date: 12/85
 Project: 12/85
 NTS: 210/4





FALCONBRIDGE LIMITED
 HEARST TWP PROJECT, PN-660
 HEARST & MELROY TOWNSHIPS
 ONTARIO
SHEET 1
0454-6-P-356
GEOPHYSICAL COMPILATION MAP
 Scale: 1" = 400'
 Date: 07/86
 Drawn: G. GIBBS
 Checked: M. BERUBE
 Prepared: M. BERUBE
 Date: 07/86
 Drawn: G. GIBBS

LEGEND
 MAG axis
 I.P. axis
 VLF axis
 Gradiometric high (1:400)
 Recent diamond drill holes

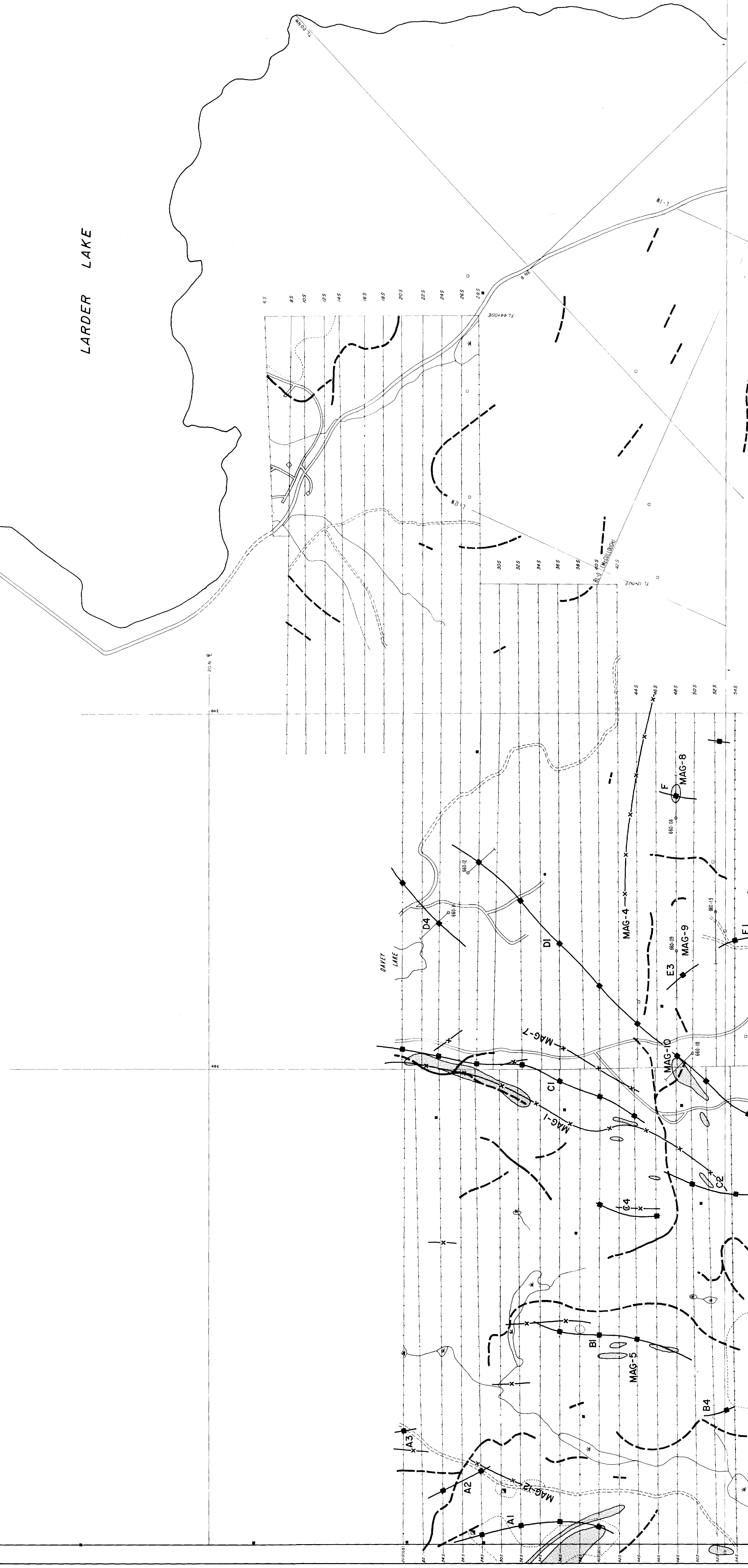
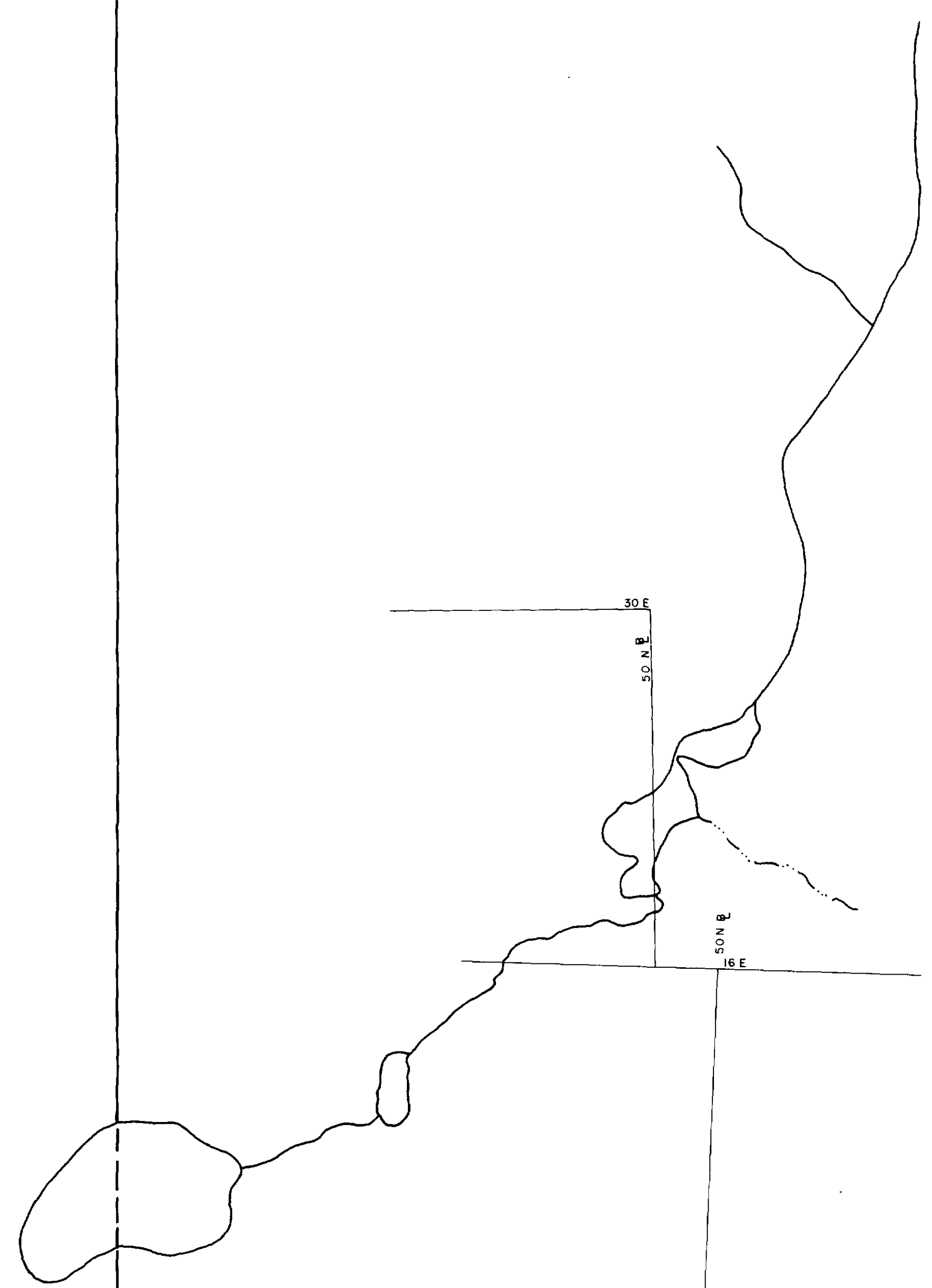
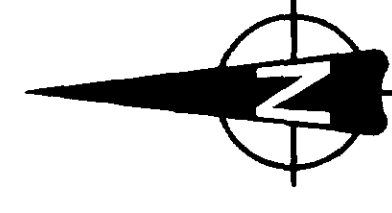
MELROY TWP
 HEARST TWP



MCVITTIE

HEARST

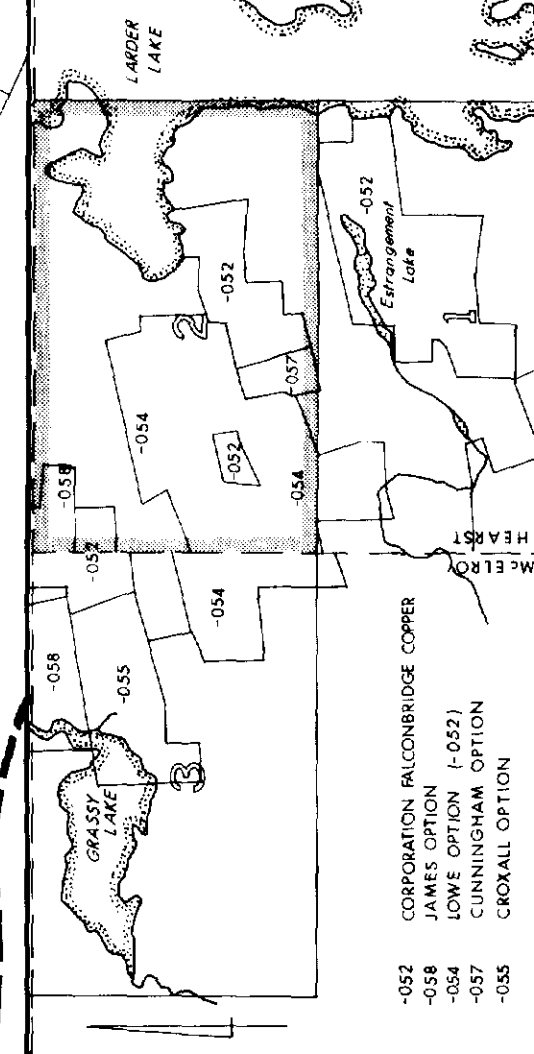
LARDER LAKE



LEGEND

- MAG axis
- IP axis
- VLF axis
- Contour line
- Recent diamond drill hole

813-10
880-10



FALCONBRIDGE LIMITED
HEARST TWP PROJECT, PN-660
HEARST & MEIRY TOWNSHIPS
ONTARIO
SHEET 2
GEOLOGICAL COMPILATION MAP

Scale: 1" = 400'

DATE: 01/06
DRAWN: GEODES

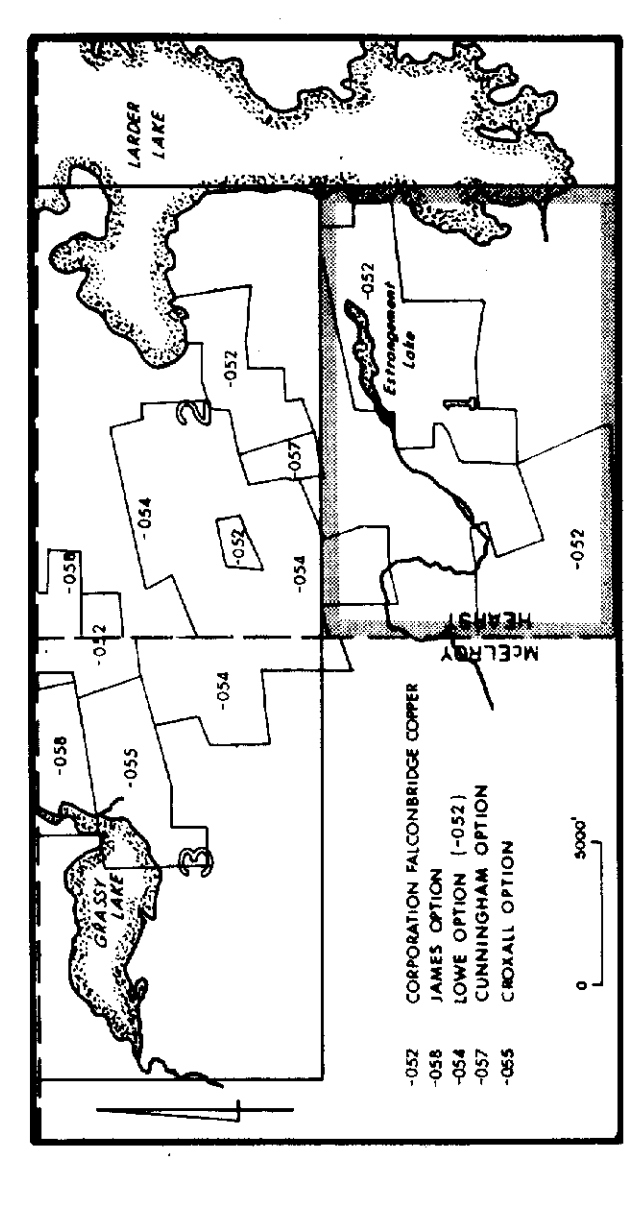
DATE: 01/06
DRAWN: GEODES

PROJECT: PN-660
SHEET: 2
DATE: 01/06
DRAWN: GEODES





OM64-6-P-356
63,4636



INGENIEUR-FALCONBRIDGE LIMITED
HEARST TWP PROJECT, PN-660
 HEARST & McELROY TOWNSHIPS
 ONTARIO
SHEET 1
 ZUBERKOWSKI, F. (FRASER METHOD CONTOURS)

Scale: 1" = 1000'

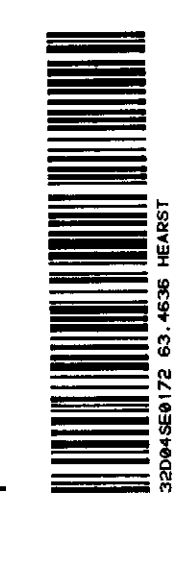
Drawn: GEOLA LITEE
 Checked: C. Lavigne P.E.D.
 Date: Sept. 1985

Scale: 1" = 1000'

Drawn: GEOLA LITEE
 Checked: C. Lavigne P.E.D.
 Date: Sept. 1985

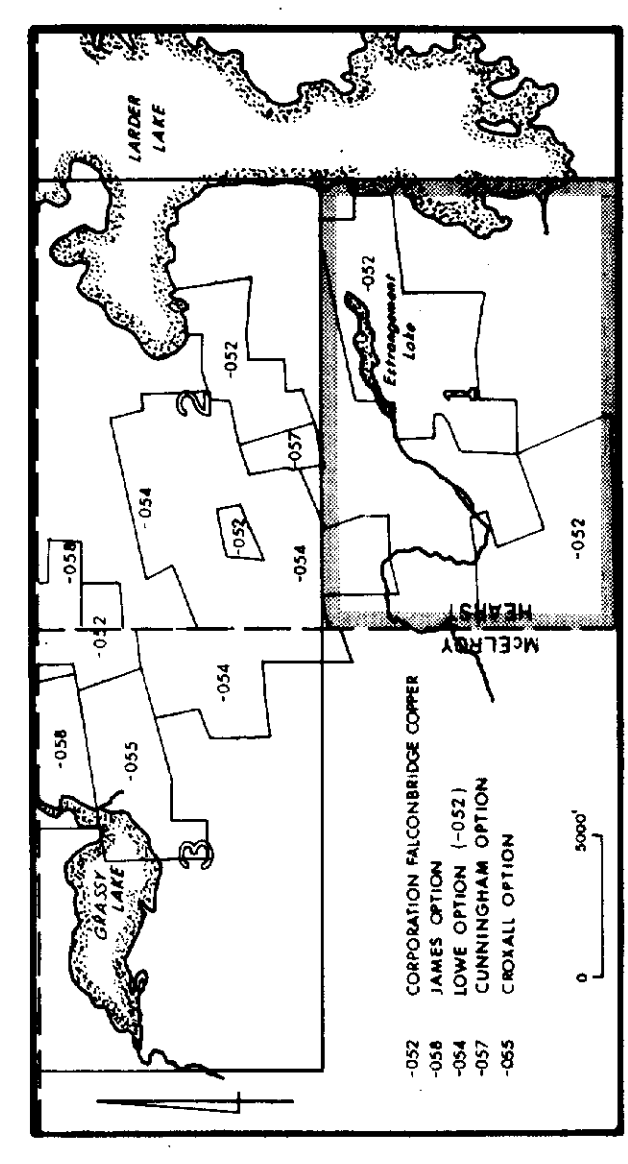
Scale: 1" = 1000'

Drawn: GEOLA LITEE
 Checked: C. Lavigne P.E.D.
 Date: Sept. 1985





OMSA-6-P-354
63.4436



FALCONBRIDGE LIMITED
HEARST & McLEROY TOWNSHIPS
ONTARIO
SHEET 1
MAGNETIC & GRADIOMETRIC PROFILES

Scale: 1" = 400'

Drawn: GEOLA LITEE
 Date: Sep 1985
 Instrument: Scintrex MP-3 magnetic gradiometer

Checked: C. Levese Ph.D. Sep. 1985
 Date: N.T.S. 32 D/4
 Plan no: 85-188-04

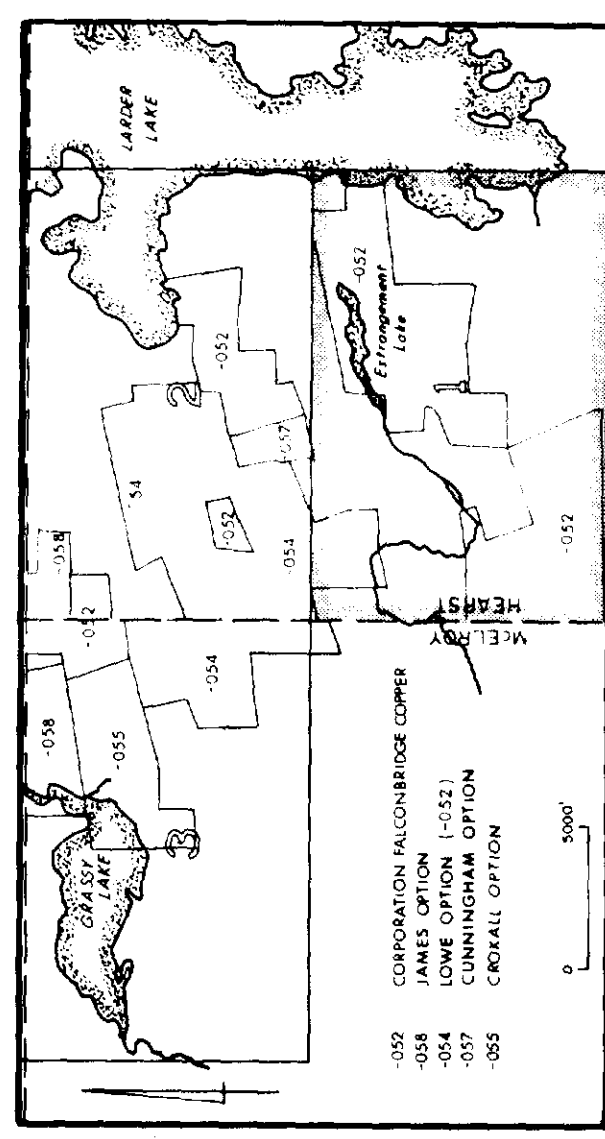
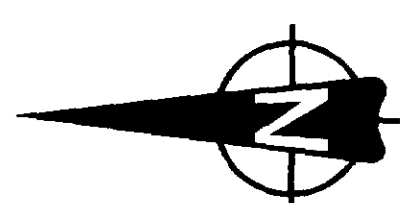
McLEROY TWP
HEARST TWP





McLEROY TWP
HEARST TWP

OMST-6-9-556
8 63 4436



FALCONBRIDGE LIMITED
HEARST & McLEROY TOWNSHIPS
ONTARIO
SHEET 1
(FRASER METHOD CONTOURS)

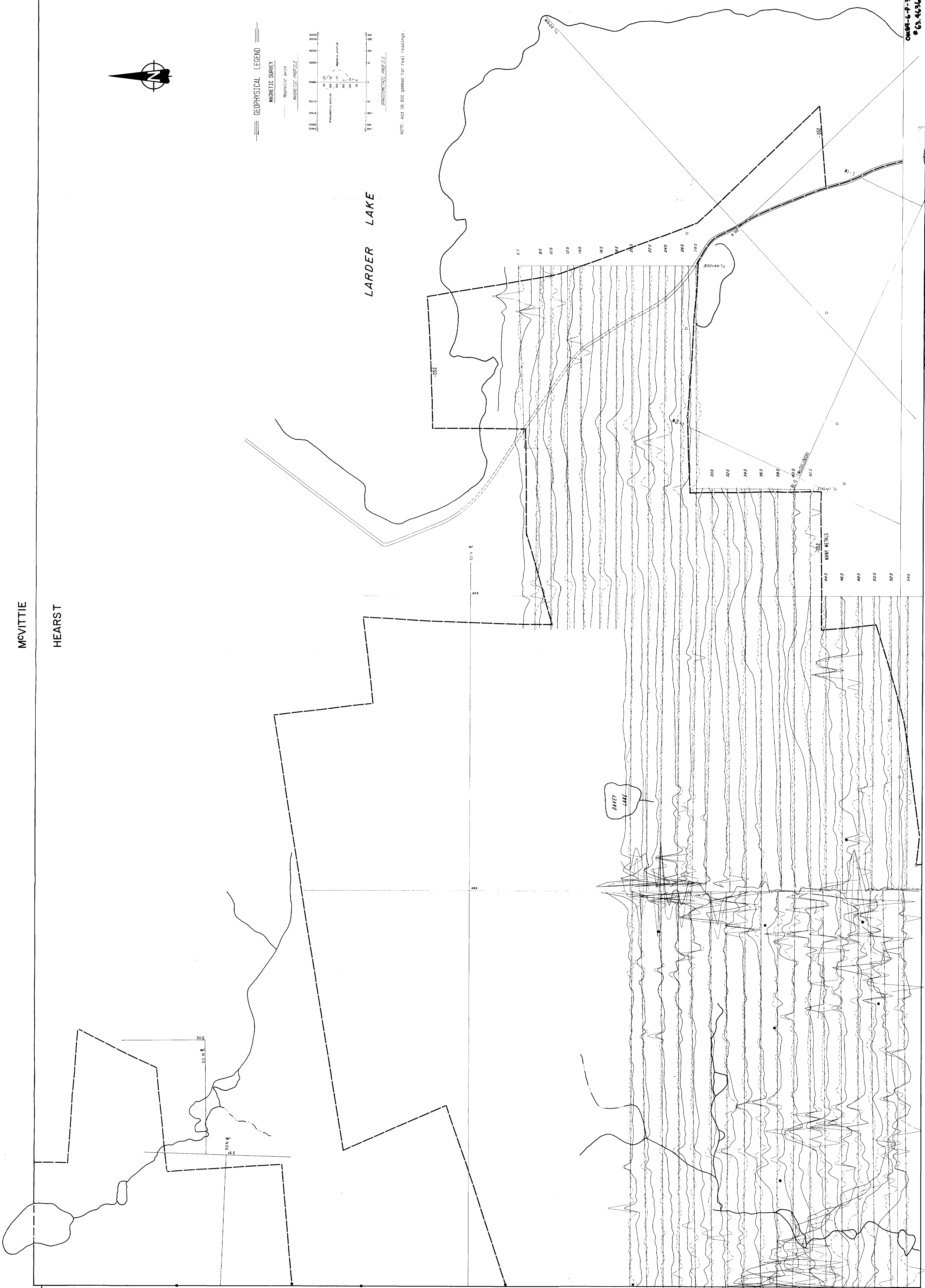
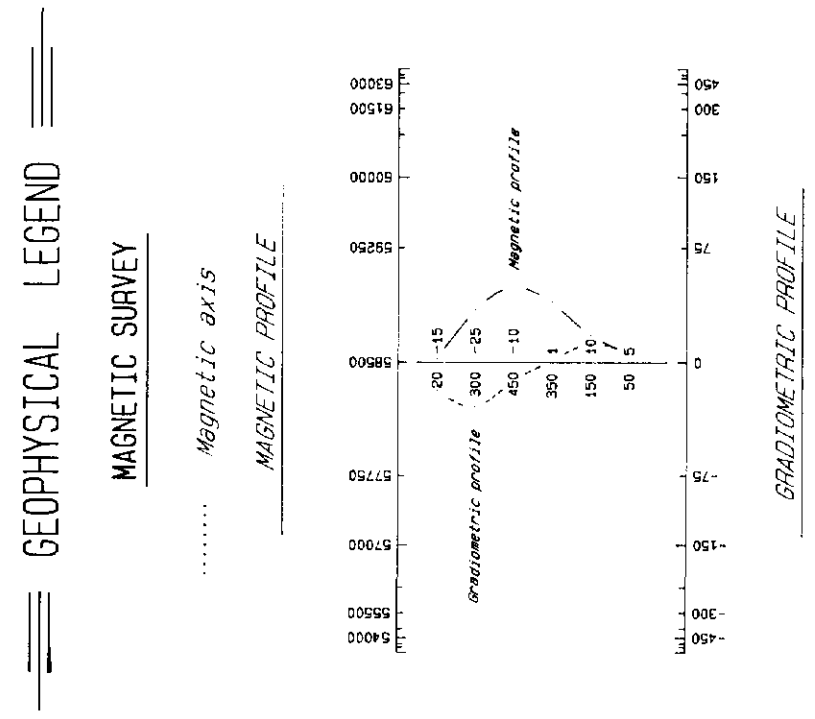
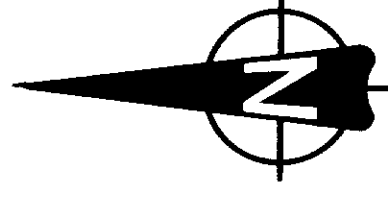
Traced by: GEOLA LEE
 Date: Sept 1985
 Scale: 1:50,000
 Projection: NAD 83
 Contour Interval: 5m
 Contour Method: Fraser Method



MCVITTIE

HEARST

LARDER LAKE



OM94-6-P-356
63-4636

FALCONBRIDGE LIMITED

HEARST TWP PROJECT, PN-660

HEARST & MERRIBY TOWNSHIPS

ONTARIO

SHEET 2

MAGNETIC & GRAVIMETRIC PROFILES

Scale 1:4000

DATE: 1985

DRAWN BY: GEOLA LEE

CHECKED BY: [Signature]

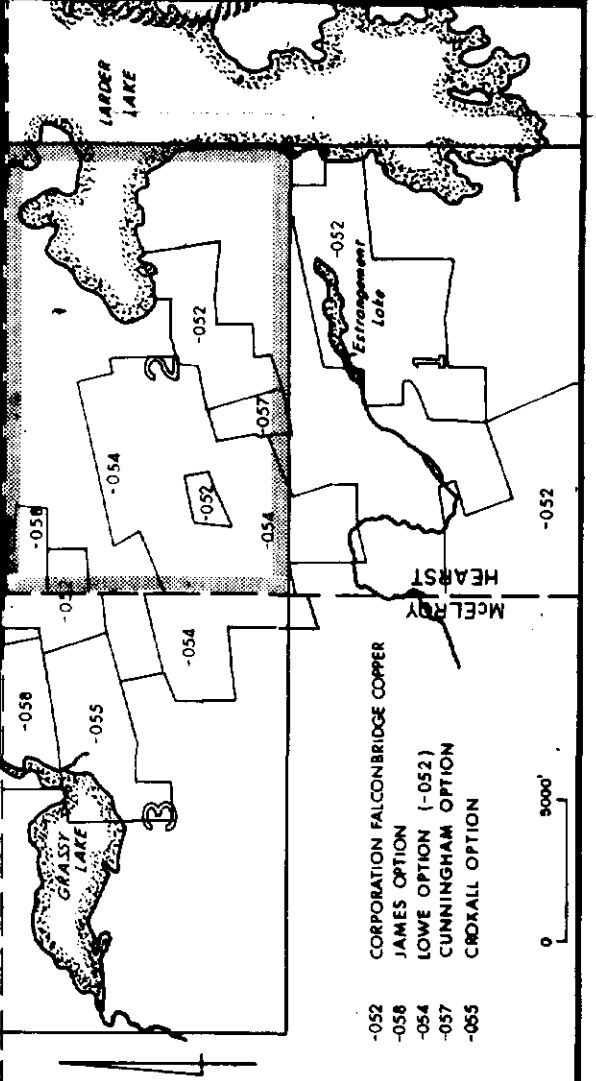
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DATE: 1985

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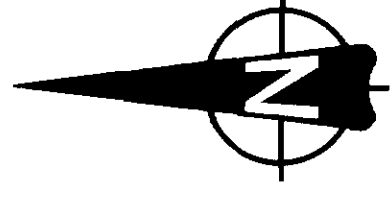
PROJECT: Hearst & Merriby Twp. Project, PN-660



MCVITTIE

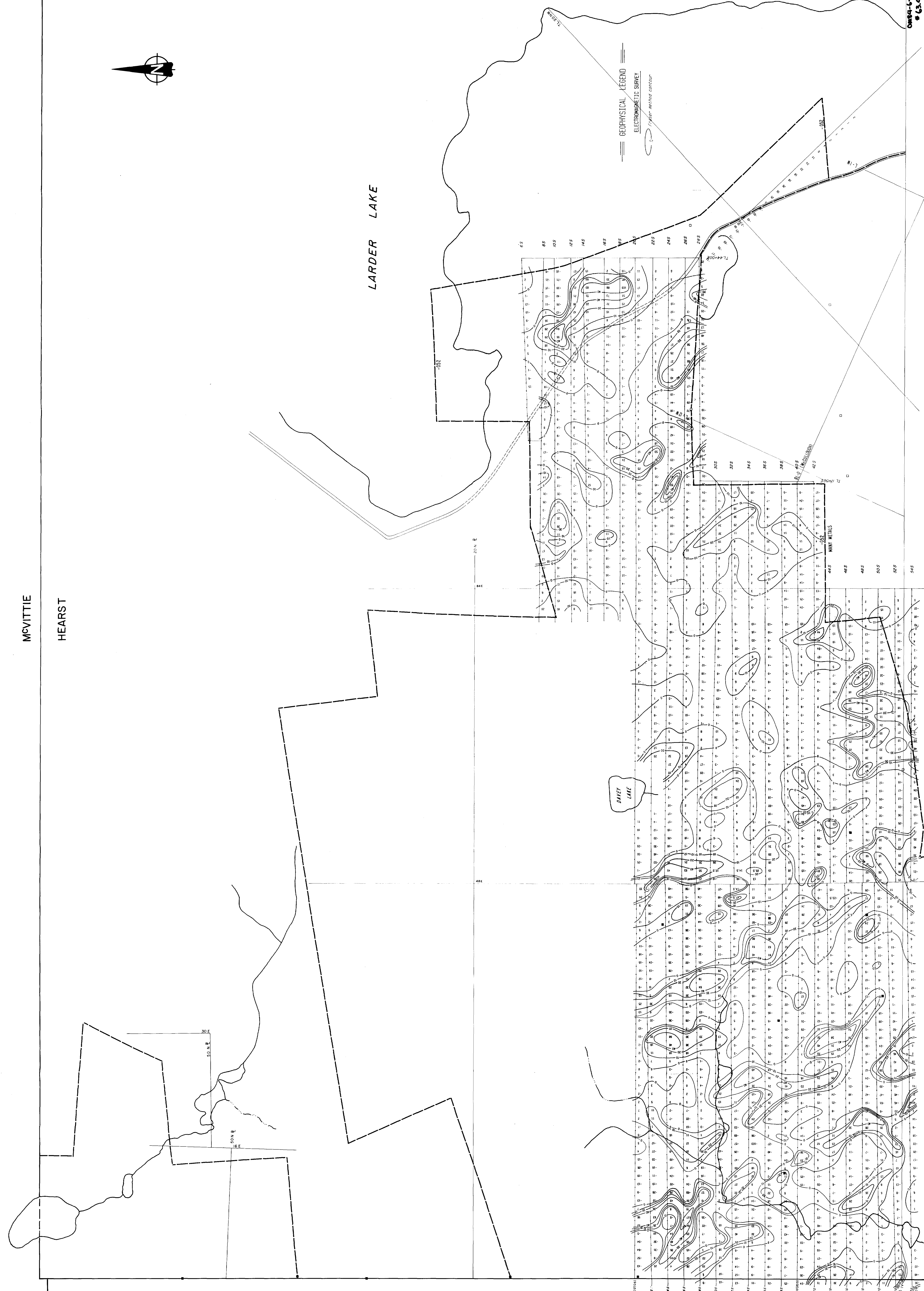
HEARST

LARDER LAKE



BAWLEY LAKE

GEOPHYSICAL LEGEND
ELECTROMAGNETIC SURVEY
Fraser method contour



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63-4436

FALCONBRIDGE LIMITED
HEARST TWP PROJECT, PN-660
HEARST & MELROY TOWNSHIPS
ONTARIO
SHEET 2
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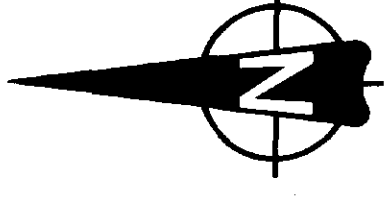
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CLIENT: FALCONBRIDGE LIMITED



McVITTIE

HEARST

LARDER LAKE

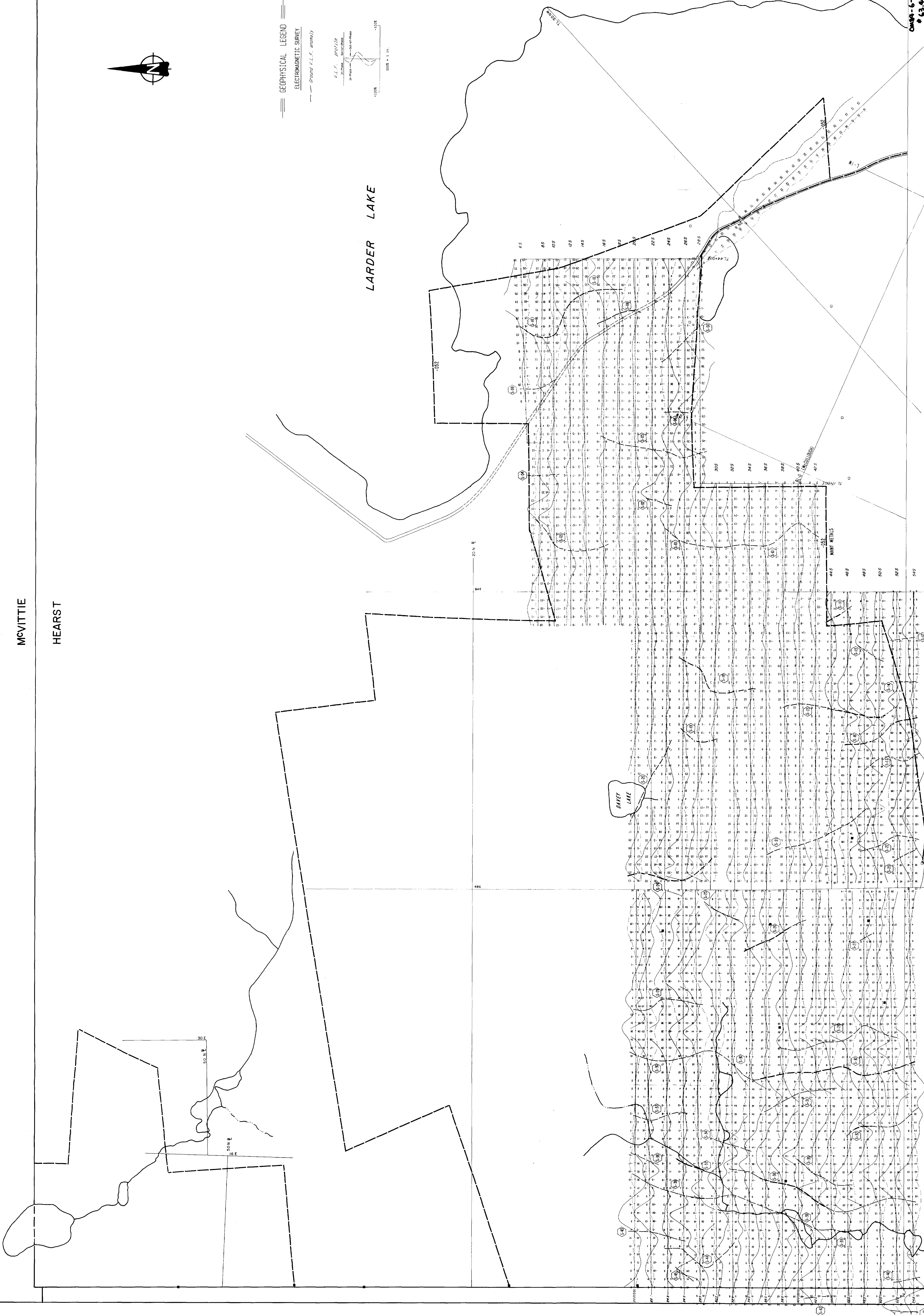
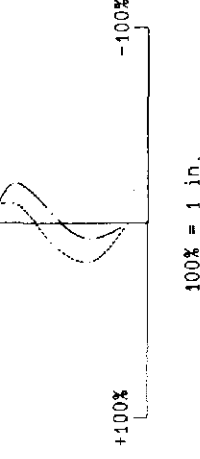


GEOPHYSICAL LEGEND
ELECTROMAGNETIC SURVEY

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V.L.F. PROFILE

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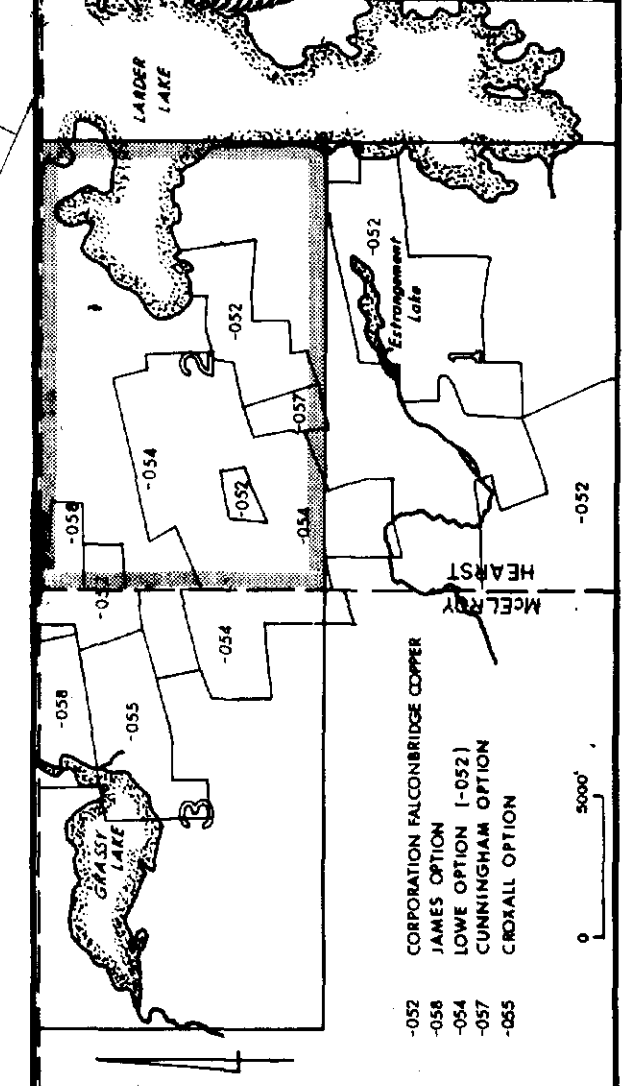
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FALCONBRIDGE LIMITED
HEARST TWP PROJECT, PN-660
HEARST & MERRYOY TOWNSHIPS
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SHEET 2

DATE: Sept 1985
DRAWN: GEOLA LITEE
CHECKED: C. Lavioie Ph.D. Sept. 1985

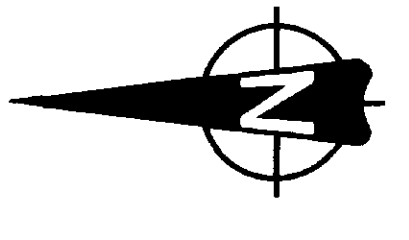
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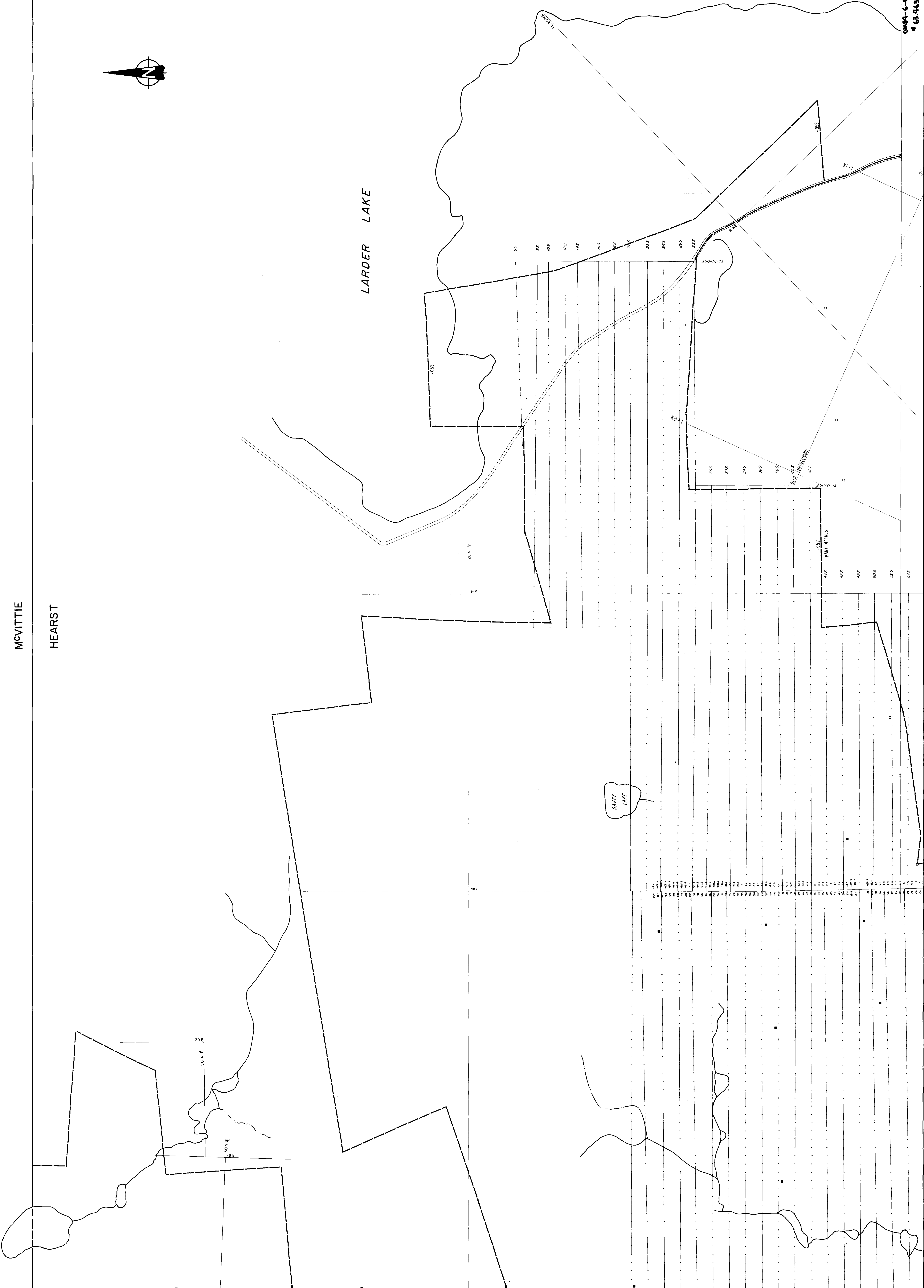
MCVITTIE

HEARST



LARDER LAKE

DAVEY LAKE



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4 63-4436

GENCO FALCONBRIDGE LIMITED
HEARST TWP PROJECT, PN-660
HEARST & MURPHY TOWNSHIPS
ONTARIO
SHEET 2
MAGNETIC & GRADIMETRIC READINGS

DATE: 1985
 DRAWN: G. LEE
 CHECKED: C. LORRAINE P.D. SEPT. 1985

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Scale: 1" = 2000'



MCVITTIE

HEARST

LARDER LAKE

DAVEY LAKE

GEOPHYSICAL LEGEND

ELECTROMAGNETIC SURVEY

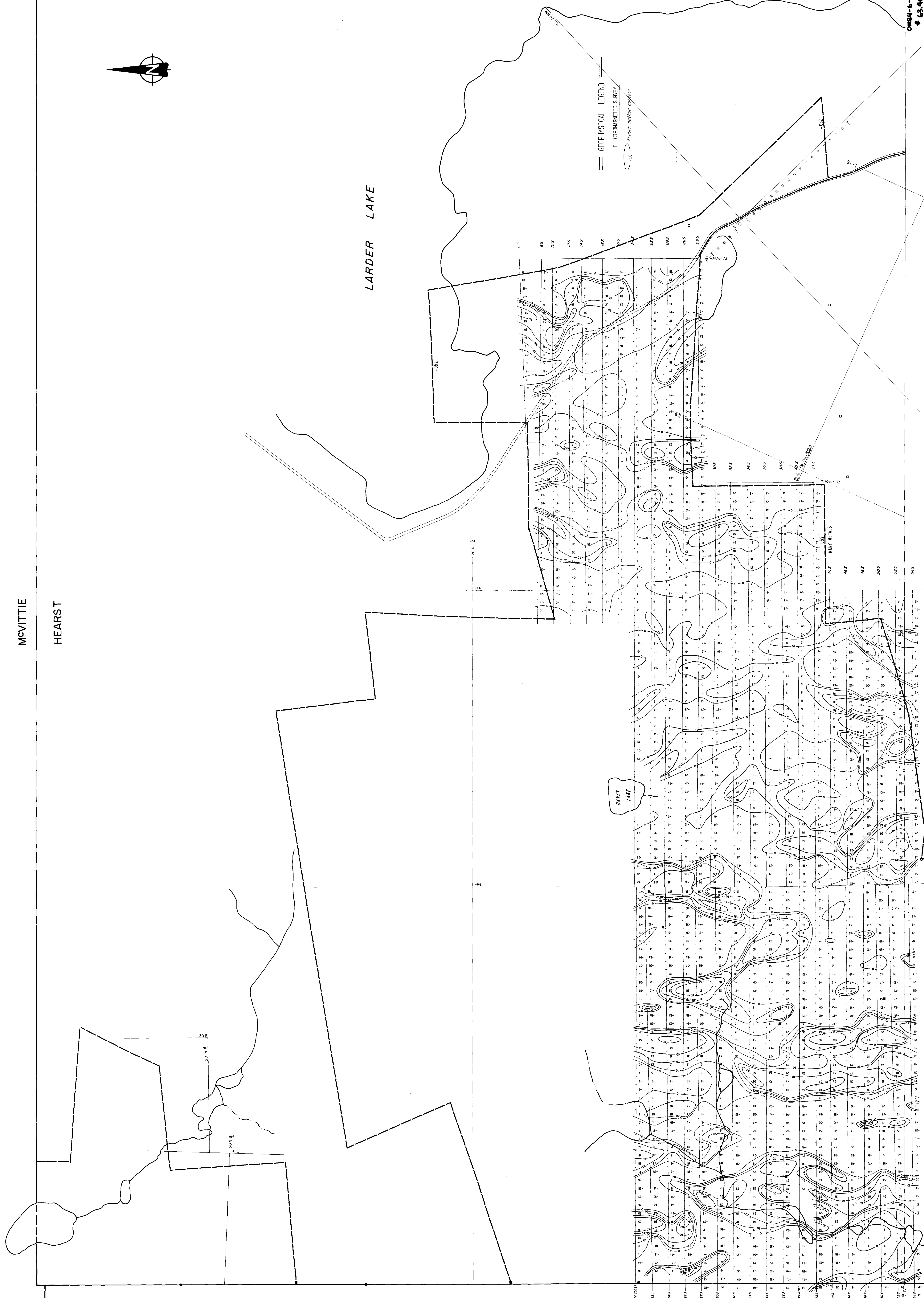
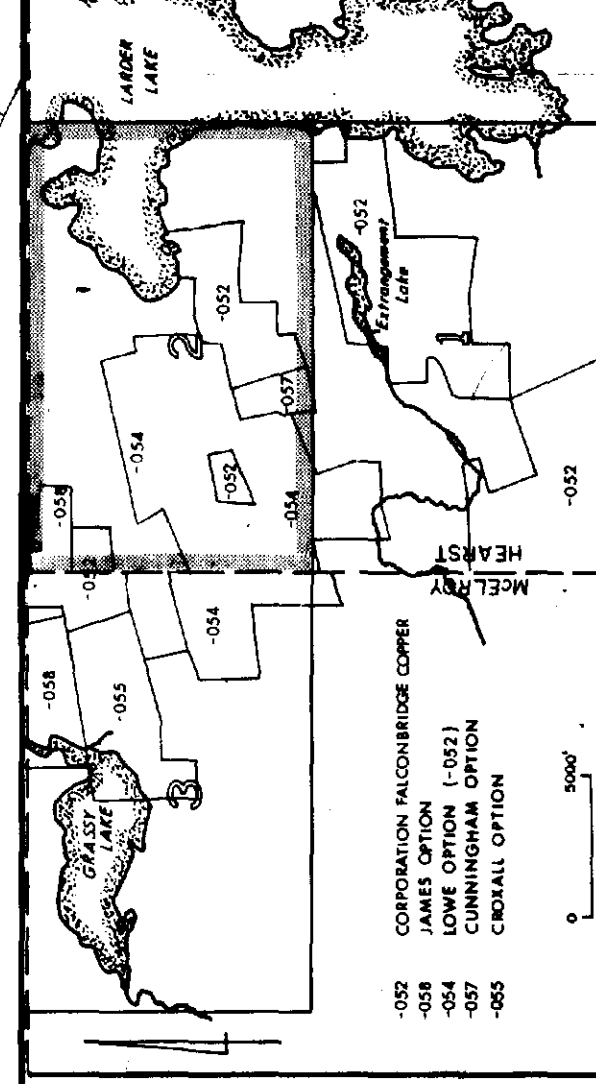
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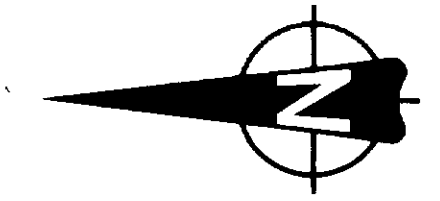
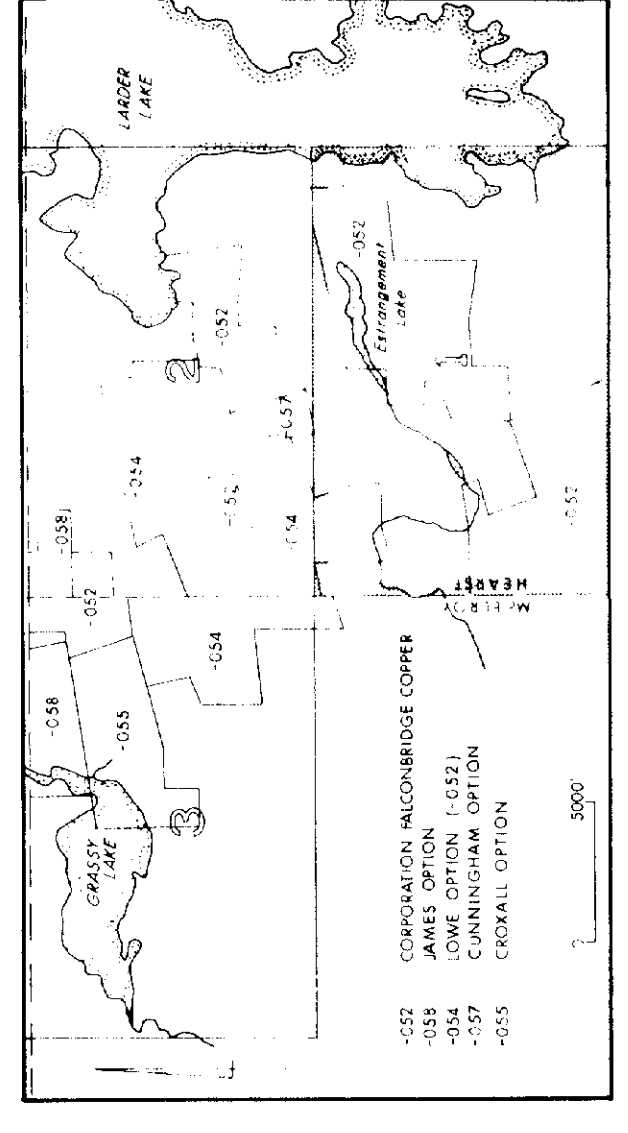
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63,4636

FALCONBRIDGE LIMITED
HEARST & McEIROY TOWNSHIP PROJECT, PN-660
ONTARIO
SHEET 2
(FRASER METHOD CONTOURS)

DATE: 1985
DRAWN BY: GEOLA LEE
CHECKED BY: [Name]
DATE: 1985
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Scale: 1:5000
North Arrow





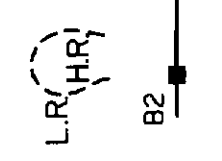
FALCONBRIDGE LIMITED
 HEARST TWP PROJECT, PN-660
 HEARST & McELROY TOWNSHIP
SHEET 1
INTERPRETATION I.P.

Scale: 1" = 400'

DATE: 10/85
 DRAWN: J. B. BROWN
 CHECKED: J. B. BROWN

DATE: 10/85
 DRAWN: J. B. BROWN
 CHECKED: J. B. BROWN

During line between zone of High and Low Water.
 Frequency, Elevation and Identification letter (and number if appropriate).

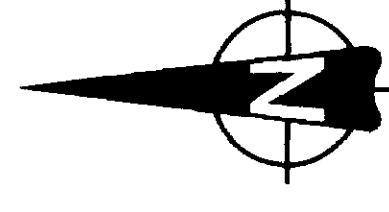


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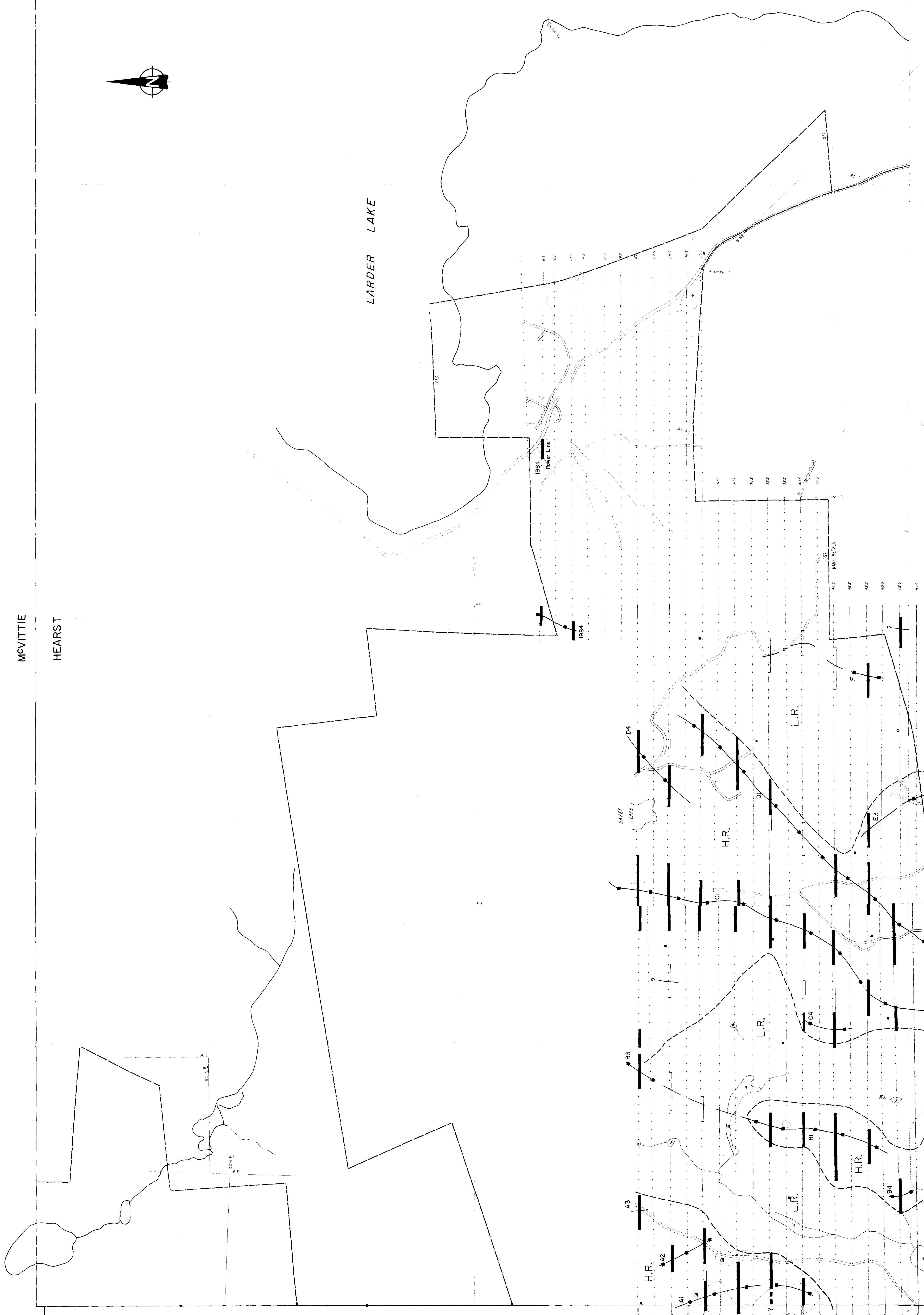


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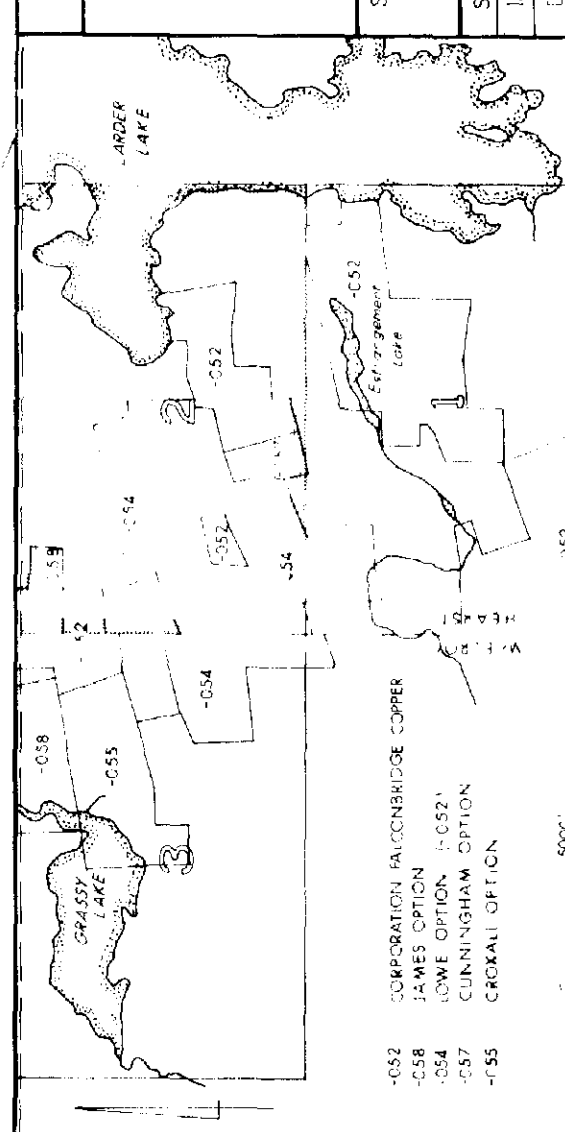
HEARST



LARDER LAKE



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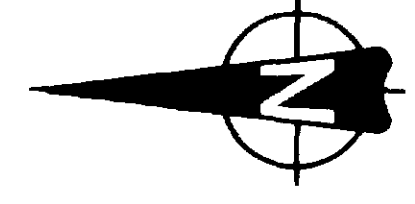


FALCONBRIDGE LIMITED
HEARST TWP PROJECT, PN-660
HEARST & McVITTIE TOWNSHIPS
ONTARIO
SHEET 2
0MS9-LP-356
INTERPRETATION I.P.
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Date: 10/85
Surveyed & Edited: 7/77
Interpreted & Revised: 10/85
Drawn: 10/85
Checked: 10/85
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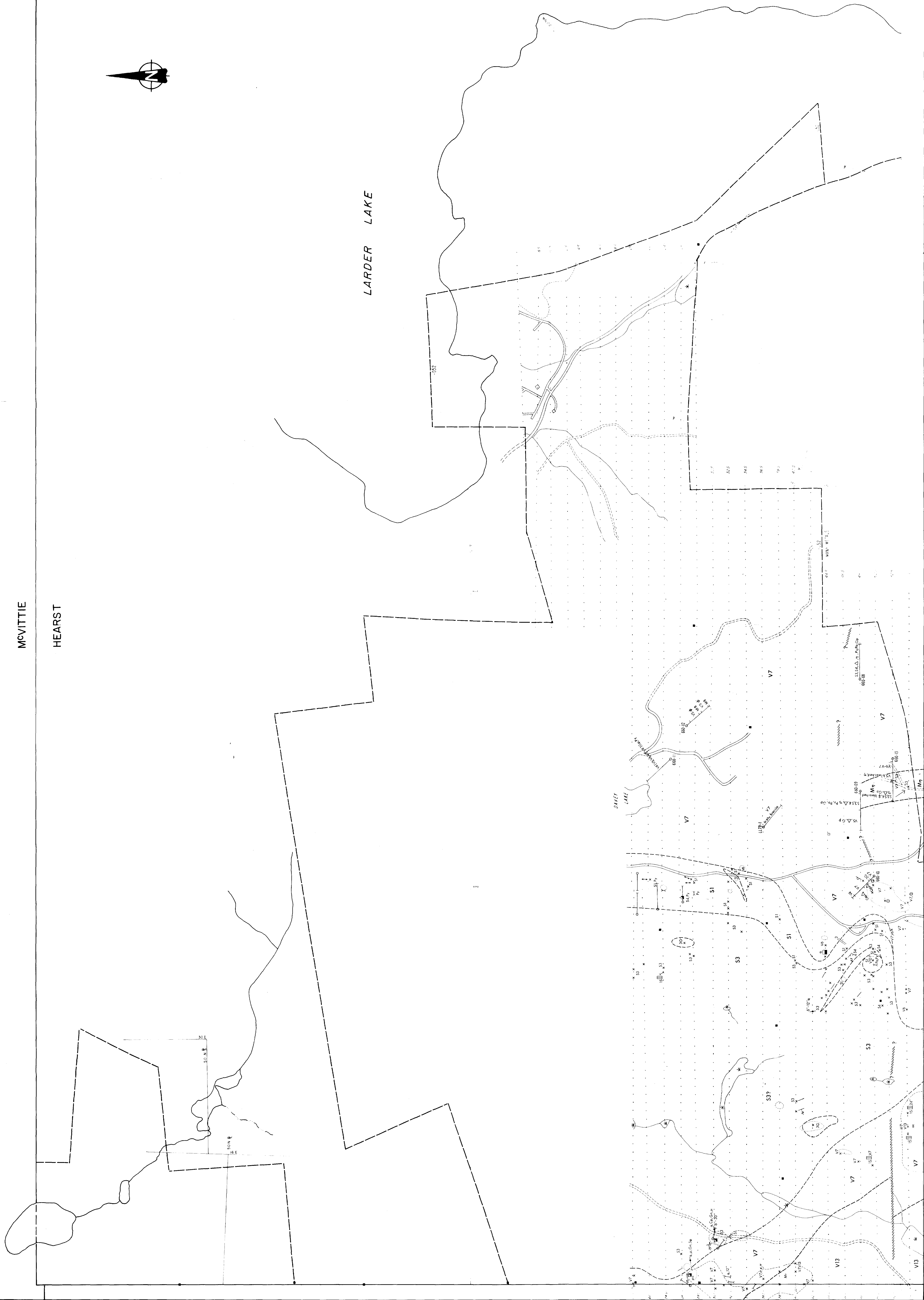


MCVITTIE

HEARST



LARDER LAKE



FALCONBRIDGE LIMITED
 HEARST TWP PROJECT, PN-660
 ONTARIO
 #634636
 GEOLOGY 0894-6-P-365

D. BOYER
 GEORGE
 10/95
 32 D/A



REPORT OF WORK PERFORMED IN 1985
BY FALCONBRIDGE LIMITED
on the properties of
CORPORATION FALCONBRIDGE COPPER (PN-660)
and of
MANY METALS MINES LIMITED (PN-613)
Hearst township, Ontario (NTS 32 D/4)
Dec. 30, 1985 Magloire Berube, P. Eng.

RESUME

During 1985, Falconbridge Limited pursued its gold-oriented exploration program in Hearst township, Ontario.

Falconbridge (FL) owns one group of 132 claims in Hearst and McElroy townships, Ont., 117 of which having been optioned from Corporation Falconbridge Copper (CFC) in 1984 and 15 of which having been optioned from Many Metal Mines Limited (MMM) in 1985.

The work done by FL on these 2 properties in 1984-85 comprises:

Option	1984	1985		total 85	total 84-85
	CFC	CFC	MMM	CFC & MMM	CFC & MMM
Claims covered	38	25	9	34	72
Lines cut (km)	22.5	9.7	22.5	32.8	55.3
Mag survey (km)	115.0	62.8	21.0	83.8	198.7
VLF survey (km)	19.3	62.8	21.0	83.8	103.1
I.P survey (km)	56.3	30.0	10.5	40.5	96.8
Geochemistry "	-	62.8(42%)	21.0(37%)	83.8(79%)	83.8
Geology "	-	62.8	21.0	83.8	83.8
D. D. Holes	7(3954)	6(3420)	3(2345)	9(5765)	16(9719')
Costs	186 967\$	124 281\$	74 213\$	198 494\$	385 461\$

Most exploration in 1984 was concentrated on the CFC claims requiring assessment work whereas most exploration in 1985 was concentrated on the CFC and MMM claims located in the vicinity of the alteration zone longing the Mitchell-Hearst fault.

A lot of anomalies were obtained from the several surveys performed during 1985.

The 9 diamond drill holes bored in 1985 encountered a lot of pyrrhotite, pyrite, graphite or carbonate (Kerr-Addison type) but failed to intersect any significant gold values.

The main data have been interpreted and compiled on maps contained in pockets at the end of the present report. More detailed maps from the same surveys are contained in two separate reports considered as parts of the present one.

Additional work is recommended for 1986: a) on 1985 anomalies left unexplained; b) on claims farther northwest, in McElroy and Hearst townships, where precious and base metals have been reported, and c) on the Hemlar property forming an enclave within the Falconbridge group of properties. The 1986 program has not yet been worked out in detail but should include a complete review of all old data, a systematic geophysical coverage of the Hemlar property and a diamond drill campaign where stripping is not feasible.

The budget for this program is estimated between 200 000 to 300 000 \$.



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- Appendix A: diamond drill logs
- B: list of core geochemical samples
- C: diamond drill sections

- Sets of maps in pockets (in volume 2/2)
- claims maps showing location of ddholes
 - geological map by D. Boucher
 - VLF compilation maps
 - General geophysical compilation map
 - Geochemical maps for Au
 - Geochemical maps for CO2

- Annexed volumes:
- book of I.P. pseudo-sections (I.P.map incl.)
 - Report on mag. and VLF by Geola.....

INTRODUCTION

This report briefly describes the results of geophysical, geological and geochemical surveys together with the results of a diamond drill campaign carried out during 1985 in Hearst township, Ontario. This work was performed by Falconbridge Limited (FL) on two adjacent properties optioned from Corporation Falconbridge Copper (CFC) and of Many Metals Mines Limited (MMM).

Many maps are inserted in two complementary geophysical reports, one containing the pseudo-sections provided by Remy Belanger Enrg. who carried out the Induced Polarization survey, and the other one, provided by Geola Ltd who carried out the magnetic and V.L.F. electromagnetic surveys. The maps by Geola also integrate the computerized data obtained in 1984 in other parts of the CFC property. For all types of surveys, the data coming from both the CFC and MMM properties have been plotted together on the same map.

DESCRIPTION OF PROPERTIES

The CFC option comprises 117 claims located in Hearst and McElroy townships whereas the MMM option comprises 15 claims in Hearst township. The claims distribution is illustrated on the claim sketch inserted next page whereas the claims numbers are listed in appendix A. The CFC option itself, for CFC purposes, was subdivided in 12 blocks of claims and/or sub-options.

The center of the properties lies about 2 miles southwest of the mining town of Larder Lake. Most claims are easily accessible: first, highway 66 passes just north of the property; secondly, road 624 relying the towns of Larder Lake and of Englehart straddles the eastern limit of the properties and is opened all year round; thirdly, numerous summer roads and trails open for mining, timbering, hunting or sport purposes lead in or close to most claims.

REGIONAL AND LOCAL GEOLOGY

The geology of the area is well illustrated on map 1947-1 accompanying Volume LV1, part V111, 1947, of the fifty-sixth annual report of the Ontario Department of Mines, volume entitled: "Geology of Hearst and McFadden townships".

Geological surveys have been done on both properties by CFC and MMM. The local geology can be summarized by highly folded and faulted, steeply dipping, interlayered sedimentary and volcanic formations belonging to the Larder Lake Group. The sediments are mainly represented by greywackes with minor argillites and conglomerates whereas the volcanic rocks, by intermediate to ultramafic flows (classified as tholeiitic and komatiitic by CFC). Several syenitic plugs and dioritic dikes have been mapped or drill intersected.

LEGEND

- LEASES
- ⊙ PATENTED
- KING'S HIGHWAYS
- POWER LINES
- CLAIM BLOCKS
- Ⓐ CLAIM BLOCK NUMBERS

BLOCK NAMES AND NUMBERS

Block	Name	C.F.C. No	FL No
Ⓐ	CLAIMS C.F.C.	PN 052-70	PN-660
Ⓒ	OPTION - MANY METALS	PN 054-70	PN-660
Ⓓ	OPTION - CROXALL	PN 055-70	PN-660
Ⓔ	OPTION - HUDSON BAY	PN - 056-70	PN-660
Ⓕ	OPTION - CUNNINGHAM	PN - 057-70	PN-660
Ⓖ	OPTION - JAMES	PN - 050-70	PN-660
Ⓗ	CLAIMS C.F.C.	PN - 052-70	PN-660
MMM	MANY METALS MINES LTD.		PN - 013

FALCONBRIDGE LIMITED

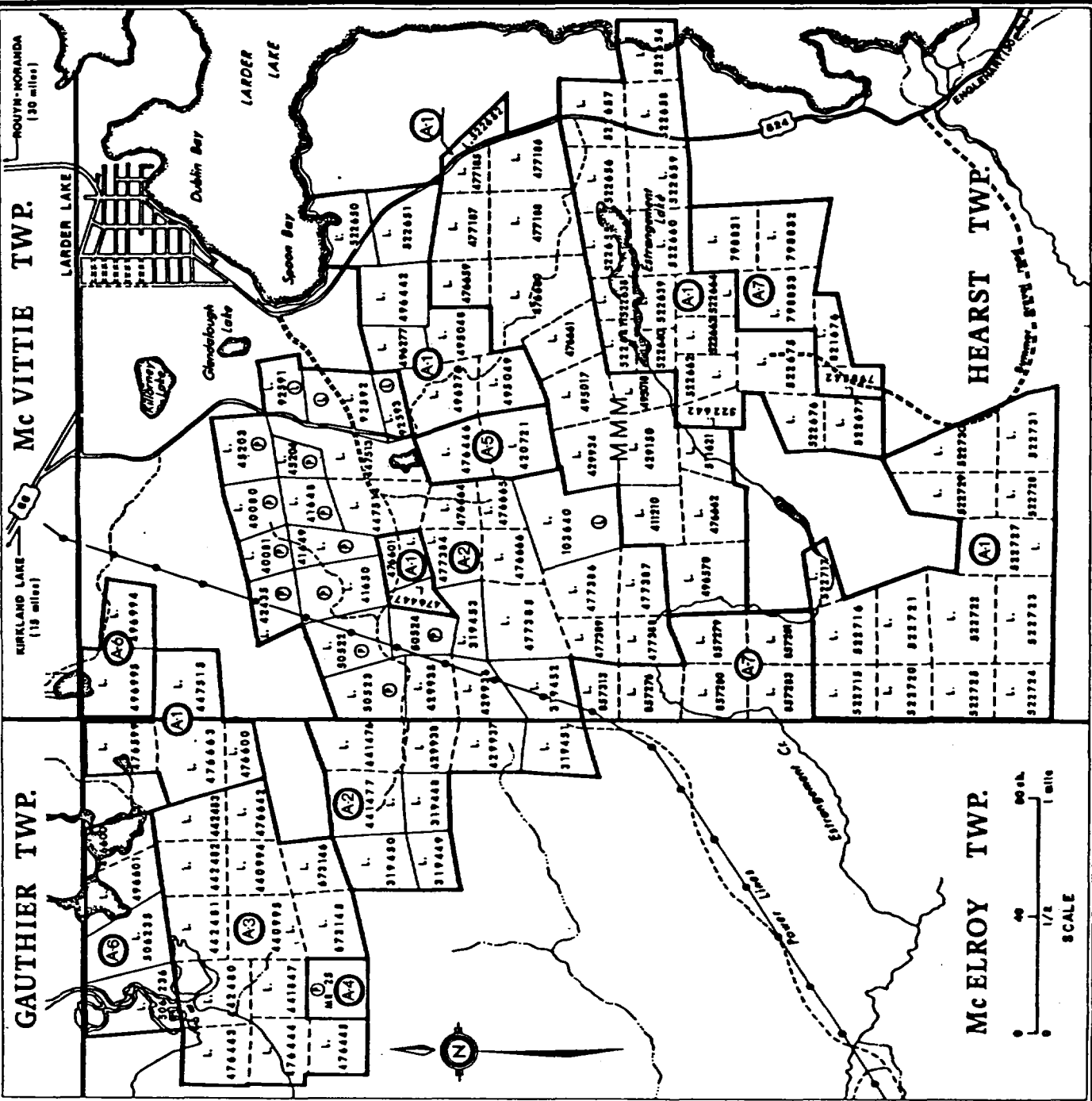
OPTION CORP. FALCONBRIDGE COPPER
OPTION MANY METALS MINES LTD.

HEARST & McELROY TWP.

CLAIMS MAP

DRAWN BY: SERVICES EXPLORATION SERVICES CORP. (03/06)

REVISED BY: STONE INC. (01/06) FOR: FALCONBRIDGE LTD.



The Larder-Cadillac break, well known and famous for the prolific gold deposits found in its vicinity, passes just North of Larder Lake village and separates the Larder Lake Group from the Timiskaming Group, farther North. Two major cross-faults and related subsidiary faults to which gold-bearing deposits are believed to be genetically or spatially associated, traverse the properties in an almost N-S direction: the Mitchell-Hearst fault and the one crossing the Fitzpatrick Bay in Larder Lake. An almost E-W fault has been assumed to pass underneath Estrangement Lake.

Wide zones of "dolomitization" with fuchsite have been locally observed along these major faults.

Pyrite, pyrrhotite or graphite zones are frequent. Gold have often been reported associated with syenites, diorites or 'dolomitized' volcanic rocks.

PREVIOUS WORK

Prospecting for gold and base metals has been intensively but sporadically pursued on both properties in the past. Stripping, blasting and trenching were later followed by modern geological, geochemical, ground and airborne geophysical surveys carried out by many companies whose respective works have already been summarized in reports by D. Comba, 1977, F. Balint, 1982 and M. Berube, 1984. Over 100 diamond drill holes totalling in excess of 50 000 feet have been bored on both properties. Most of this work had been carried out outside the portion of the CFC property intensively worked by FL in 1985.

RECENT WORK

During 1985, Falconbridge Limited (FL) performed the following quality and quantity of work on both properties:

Type of work	CFC	MMM	Total
Line cutting	9.7 km	22.5 km	32.8 km
Magnetometer	62.8 km	21.0 km	83.8 km
VLF EM survey	62.8 km	21.0 km	83.8 km
I. P. survey	30.0 km	10.5 km	40.5 km
Geochemistry	62.8 km	21.0 km	83.8 km
Geology	62.8 km	21.0 km	83.8 km
Diamond drilling	6 holes (3420')	3 holes (2345')	9 holes (5765')

The work done in 1985 covers only the western half of the MMM property and the southern part of the north block on the CFC property. It was concentrated to the vicinity of the Mitchell-Hearst fault structure.

The line cutting has been contracted by Exploration Colinex Inc. of Rouyn, Que. Most lines have been cut in an E-W direction, with pickets at 100-foot intervals along lines 200 feet apart. Much time has been spent in the field looking for old base lines, old

pickets and claim posts in order to be able to overlay any plan from previous works (once reduced at the scale of new plans, 1" = 400') and in order to tie the sets of claim posts recently localized, with the new grid of lines. The new claim map integrates all new lines, all old base lines and most claim posts.

The geophysical surveys carried out by Geola Ltee of Val d'Or, Que. include measurements of both the total field and the vertical gradient of the earth magnetic field, at intervals of 50 feet and also the readings of a VLF electromagnetic survey measured on 2 frequencies, at intervals of 100 feet. The computerized results have been presented as profiles and/or contours on maps accompanying the report by Geola. The author re-interpreted all VLF results on a new VLF compilation map to be found in pocket at the end of the present report.

The Induced Polarization (I.P.) survey had been carried out by Remy Belanger Enrg of Evain, Que., with Phoenix 1PV-1 and 1PT-1 instruments working in the frequency domain. Both the Frequency Effect (F.E.) and the Resistivity (Res.) were measured at spacings of 200 feet and for depths of N = 1 to 5. Remy Belanger provided a set of pseudo-sections showing all readings of Res. and F.E. altogether with the calculated metal factor. The author interpreted the data contained in the pseudo-sections by reporting anomalies as bars on his own plan, bars later joined by axes from line to line.

The geochemical survey was conducted by a crew of 2 technicians (Gilles Carrier and Paul Nadeau) who walked along all the lines for mapping and sampling all outcrops of bedrock. Each sample was theoretically composed of several pieces of rock aggregating about 5 pounds and broken within 100-foot radius from the reported location on the geochemical map. The ~~302~~⁷⁸ geochemical samples collected that way were sent to Chimitec Ltee of Sainte-Foy, Que., who prepared them by fire assay before sending them at Bequerel Laboratories of Mississauga to be assayed for gold in ppb by neutronic activation; Chimitec Ltee also had then assayed for CO₂ by a gravimetric method.

The geological survey has been executed by Donald Boucher of Kirkland Lake, Ont., who visit, mapped and sampled the outcrops previously outlined by the crew of technicians doing the geochemistry. In addition, the author also presents in pocket a geological map compiling data from recent and previous geological mapping, from diamond drill results, from a few visits on the property and from geophysical interpretation.

The diamond drilling campaign has been contracted by Dominik Drilling (1981) Ltd of Porcupine, Ont. All the core have been logged and geochemically sampled at Kirkland Lake before being transported to the Timmins core shack for storing. The logging has been done by M. Berube, Donald Boucher or J. Andre Carrier. Splitted core samples have been sent to Swastika Laboratories Limited and geochemical samples of core have been sent to

Chimitec Ltee of Sainte-Foy for assaying. Each geochemical sample was composed of pieces of core 1" to 2" long taken at intervals of 1.8 feet along a same geological unit (more samples were taken in units exceeding 100 feet). The diamond drill logs are inserted herewith as appendix A, the diamond drill geochemical results, as appendix B and the diamond drill sections for each hole , as apendix C.

DISCUSSION AND INTERPRETATION OF RESULTS

Geophysical surveys

Let's first describe the results for each type of geophysical surveys before comparing them with each other.

Magnetic and gradiometric results

Geola Ltee plotted the magnetic and the gradiometric results on 4 sets of maps (each set comprising 2 base maps provided by FL, one covering the northern part, the other, the southern part of the properties). Results of all other surveys carried out by FL are all shown on the same set of base maps.

The broadest magnetic features contoured on the magnetic map have a northwest-southeast direction and are refered below from the southwest to the northeast:

- a high mag (> 1000 g), caused by ultramafic rocks (see geology)
- a low mag (< 200 g), 500-1000' wide, underlain by volcanic and sedimentary rocks (could be the low side of polarized high mag)
- a medium low mag (200-500 g), 1500-2000' wide, underlain by sediments
- a medium high mag (600-1000 g), probably underlain by intermediate volcanic rocks

These broader magnetic features are locally cross-cut by smaller linear anomalies marked Mag-1 to 12 on the general geophysical compilation map, and briefly described below:

- Mag-1: bi-polarized mag., oriented N 20 E, sub-parallel to line B4 E in its north part: massive py, po, graphite at places.
- Mag-2: low mag., oriented N 35 E, sub-parallel to the southern extension of the alteration zone (see geological map)
- Mag-3: high mag. probably caused by ultramafic flows or syenite
- Mag-4: high mag., E-W, possibly a gabbroic dyke stopping against the fault passing by the alteration zone (Mitchell-Hearst fault)
- Mag-5: high mag. probably caused by a gabbroic intrusion because such an outcrop has been observed in its centre
- Mag-6: high mag., concordant linear structure, unexplained

Mag-7: low mag., unexplained

Mag-8: high mag., explained by heavy pyrrhotite in hole 660-08

Mag-9: high mag., explained by pyrrhotite in hole 660-09

Mag-10: high mag., explained by pyrrhotite in hole 660-10

Mag-11: high mag., one outcrop of iron formation reported nearby

Mag-12: high mag., over a pit containing a 6-30" wide copper-bearing quartz vein

There are other still smaller magnetic anomalies that might indicate mineralization, specially if confirmed by other surveys. Offsets along bigger anomalies may also be structurally important because possibly caused by cross-faults.

A gradiometric map on which the highest absolute readings have been contoured succeeded to pin-point most of the anomalies described above. This gradiometric map had not been included herewith but the more significant anomalies appear on the general geophysical compilation map in pocket.

VLF electromagnetic results

Geola reported the VLF results on 4 other sets of maps. The more significative sets are the ones showing the In Phase components from the NSS station as profiles and contours. The set showing the In Phase components from the NAA station is not valid because the profiles have been drafted along E-W lines instead of theoretical N-S lines on the profile presentation and because the filtering has also been done along E-W lines instead of theoretical N-S lines on the contour presentation. For this reason, the author re-calculated all In Phase readings from NAA along theoretical N-S lines, using the Fraser method.

Then the author integrated all In Phase data on a new set of map proceeding that way: first, only the positive values contained on on both NSS and NAA maps have been transferred on a new map; secondly, all values have been countoured by Geodes (with author's own method); finally, the contoured amplitudes have been interpreted as explained below.

The strongest anomalies have been labelled from VLF-1 to 10 on the VLF compilation map accompanying the present report, as a matter of reference only, before being classified as real or false anomalies.

Induced Polarization (I.P.) results

On the pseudo-sections, the higher Frequency Effect (F.E.) are generally associated with the higher Resistivity (Res.) readings and they also largely coincide with area of outcrops, suggesting

that most anomalies are sub-surface or false anomalies. The F. E. peaks or axes are almost always closely associated with high Res., apparently marking the crests of hills.

Once transferred on an I.P. compilation map, most F. E. axes are effectively located over the area of outcrops. They have been labelled from A to F, these letters being followed by numbers when axes are segmented.

One rare I.P. anomaly whose F.E. is associated with a low Res. and does not seem to correspond to an outcropping area is anomaly F which has been explained by diamond drill hole 660-08. This hole cut a lot of sulphides with minor graphite.

Correlation between Mag., VLF and I.P. results

A general geophysical compilation map has been specially built to superpose the main VLF, I.P., Mag. and gradiometric axes, for comparison and interpretation.

The new VLF compilation map outlines both sub-surface (false) and bedrock (real) conductors. The first rule of thumb used to differentiate between both types of anomalies consists to superpose the VLF compilation map over a well documented geological map (one outlying rocky hills and swamps or conductive overburden, for example). In the absence of real conductors (in bedrock), the highest amplitudes will coincide with valleys filled with conductive overburden whereas areas of rocky hills stay blank. Then, a VLF anomaly located over a hilly area has a better chance to be a real one. The second rule of thumb to discriminate between false and real conductors inside as well as outside hilly areas consists to superpose the VLF compilation map over the I.P. compilation map. While most false VLF anomalies are located outside areas of outcrops, most false I.P. anomalies, on the contrary, are located inside areas of outcrops, then not coincident. When a VLF and an I.P. conductor coincide, then the conductor has a better chance to be caused by a real or bedrock conductor, by sulphides or graphite. See anomaly VLF-5 for instance.

When a VLF anomaly and/or an I.P. anomaly coincide with a magnetic anomaly, the reliability for a real conductor is still better, as it happens over anomalies VLF-5 and VLF-8

Unfortunately, on the claims surveyed during 1985, coincident anomalies are very few and, which is still worse, axes of different surveys are cross-cutting instead of being parallel to each other.

Geochemical survey

Two complementary geochemical surveys (with local overlapping) have been conducted over the property, the one previously conducted by CFC and the recent one, by FL. Samples were assayed

for precious, base metals and for oxides by CFC and samples from surface and from diamond drill holes have been assayed for gold and CO2 by FL.

The geochemical map in pocket shows the geochemical results obtained by FL in 1985 but also shows a few gold assay results obtained from a reconnaissance geochemical survey done by FL in 1984, when localized in 1985 by observation of flagging left in 1984.

To make it short, very few assay results for gold are anomalous and most highly anomalous assay results for CO2 have been obtained over the main alteration zone. The previous surveys by CFC yielded much more anomalous gold assays (the area covered was not necessarily the same as the one covered by FL).

Geological survey

Let's sub-divide the geology into lithology, structure, alteration and mineralization. The legend for the symbols used on the geological compilation map in pocket is inserted as appendix D.

Lithology

The lithology appearing on the geological compilation in pocket is not much different from the ones previously filed by other companies like CFC, MMM, etc. It is mainly composed of three units: sediments (mainly greywackes), ultramafic flows (komatiites) and intermediate volcanic (tholeiites) rocks. There is a big difference, though, between the governmental map and all companies' maps: the rocks forming the hill over the Mitchell-Hearst fault, identified as syenite on the government's map are identified as altered volcanic and sedimentary rocks on companies' maps.

Structure

The main structures are locally identified by geological observation and magnetism: the NW-SE trending contact between ultramafic and intermediate flows is well defined by the magnetism except to the SE, on the southern extension of the main alteration zone where the ultramafic flows become 'demagnetized' by alteration. Elsewhere, on the property, the magnetism, the I.P. and the VLF do not seem very effective tools to define the structures, maybe because of local intense alteration and complex folding and faulting.

Several faults however have been tentatively drawn on the geological compilation map.

The bedding and even top determinations have often been observed at many places over the sediments and the volcanic rocks.

Both sedimentary and volcanic rocks have been frequently

brecciated in situ and their hairline fractures have been filled by some black graphite, as observed on surface and in many drill holes, but these breccias are not always easily followed by geology or geophysical.

Alteration

The more important type of alteration is the "dolomitization" of volcanic and sedimentary rocks, along the Mitchell-Hearst fault. This alteration has hardened the rocks to the point of forming a hill, because more resistant to erosion. This hill is by far the strongest topographic feature on both properties.

Mineralization

Pyrite and pyrrhotite has been found at many places, often associated with graphite. For instance, heavy nodular pyrite has been encountered in the wide pit at coordinates 26 S-83 E and in hole 660-08, hole which also contains some heavy pyrrhotite. All sulphide mineralizations have been assayed for gold and, except for weak values intersected in hole 660-13, no significant amount of gold or base metals have been obtained from geochemistry, geology and diamond drilling in 1985.

Diamond Drill hole campaign

On CFC option

The first five diamond drill holes on this option were drilled under I.P. anomalies located outside outcrop areas and the sixth one was drilled across the northern extension of the alteration zone exposed on the MMM option, farther south.

I.P. anomalies in the first 4 holes are well explained by a variable amount of graphite, pyrite and/or pyrrhotite, and do not carry any significant gold values. From the log, there is no good explanation for the I.P. anomaly in the fifth hole that the author has not seen yet. The sixth or last hole did cut the alteration zone but the alteration is reported weaker than in the third hole drilled on the MMM option to the south. This hole cut an anomalous gold zone averaging 190 ppb Au over 22 feet from 284.5 to 306.5 feet. A more detailed summary of the geology of each diamond drill hole follows:

The numbers of holes begin with 660-08 in 1985 because holes 660-01 to 07 have been drilled in 1984.

Hole 660-08

016-542: interlayered argillites, greywackes and conglomerates (or breccia?)

This hole cut several sections containing light to heavy sulphides, nodular pyrite and/or disseminated pyrrhotite and some slightly graphitic sections. Fuchsite was

observed from 166 to 186 feet in an alteration zone.

Hole 660-09

042-297: interbedded argillites and greywackes, often brecciated in situ, the hairline fractures filled by graphite. Frequent py. and po.

297-606: intermediate volcanic rocks, partly brecciated, graphitic but barren of sulphides.

Hole 660-10

020-506: mainly mafic volcanic flows, local tuffs and a dyke of gabbro. These rocks are brecciated in situ from 157 to 251 and from 339 to 463. The hairline fractures in the breccia are black, being filled by graphite. The first breccia contains traces to 1% pyrrhotite and pyrite and the second one, up to 5% py-po.

Hole 660-11

074-526: mostly intermediate volcanic rocks, locally described as dacite, andesite, basalt and tuffs. a 15' dyke of syenite is noted at 461'. Graphite has been identified at 92', 121', 130-132' and at 262'. Frequent traces of pyrite.

Hole 660-12

080-282: intermediate to mafic volcanics, chloritized;
282-341: mafic volcanics, "
341-511: intermediate to mafic volcanics, "
511-516: gabbro-amphibolite

From the log, there is no explanation for the I.P. anomaly.

Hole 660-13

061-225: mafic and ultramafic volcanics;
225-379: altered (dolomitized) mafic volcanics?,
local fuchsite, traces of pyrite;
379-708: weakly altered (dolomitized) metasediments,
local graphite;
708-716: basic dyke.

65 core samples have been splitted in this last hole, the most anomalous ones being 5 consecutive samples splitted from 284.5 to 306.5: they averaged 190 ppb Au over 22.0 feet. The other best values are scattered and are 140, 100, 40, 30 and less.

On MMM option

The 3 diamond drill holes 613-01 to 03 have been drilled before having received the results of the geochemical survey. The first two holes were drilled across the southern extension of the Mitchell-Hearst fault and across the western extension of the Estrangement Lake fault, in an area covered by overburden where ultramafic rocks were not expected because of much lower magnetism. These 2 diamond drill holes encountered mainly talcose and "de-magnetized" ultramafic volcanics without any sign of the expected syenitic intrusions, 'dolomitized' alteration zone or gold-bearing quartz veins. The third hole has then been collared farther north so as to sample the carbonate zone, mid-way between the first two holes and a previous set of holes under the showing area. Here is a more detailed summary of the geology encountered:

Hole 613-01

072-629: highly talcose ultramafic flows;
629-794: slightly carbonated intermediate flows.

Both intermediate and ultramafic flows are cut by 12% of diorite dykes (6 of them). The shearing from 575 to 752 might have been developed by the Mitchell-Hearst fault.

No significant gold assay results were obtained.

Hole 613-02

023-726: talcose ultramafic flows all along.

No significant gold assay results were obtained.

Hole 613-03

006-368: intermediate to mafic volcanic rocks;
368-382: amphibolite or mafic tuffs;
382-576: alteration zone, bleached sediments, some fuchsite;
576-637: arkosic arenites
637-747: alteration zone, similar to above;
747-825: mafic to ultramafic volcanic rocks.

The highest assay results from 114 core samples were:
600 110, 90 and 70 ppb Au.

CONCLUSION

The magnetic map helps to better define larger geological structures (contacts, faults) and to pin-point concentrations of magnetic mineralization. Anomalies labelled Mag-1 to 12 on the general geophysical compilation map are described in the present report. The gradiometric anomalies have also been countoured on the same general map.

The VLF compilation map (the one combining both the NAA and NSS results, with the author's method) clearly differentiates areas of positive In Phase amplitudes (generally underlain by conductive overburden) from the one of negative In Phase amplitude (generally underlain by rocky hills). The 10 sharpest anomalies are labelled VLF-1 to 10 on the map. Very few of them are real bedrock conductors.

The I.P. compilation map contains numerous F.E. axes labelled A to H (each followed by numbers when segmented), most of them thought to be caused by sub-surface effects, some by graphite or sulphides.

A general geophysical compilation map have been drawn to better show the associations between magnetic, gradiometric,, VLF and I.P. anomalies.

The geochemical maps failed to show any geochemically anomalous gold zones but clearly picked up the main carbonated alteration zone. Moreover, these maps were sometimes usefull for VLF interpretation when outlining areas of rocky hills from those of conductive overburden.

The geological compilation map differs from the government map 1947-1 which shows a wide 'syenitic' dyke instead of carbonated volcanic and sedimentary rocks along the Mitchell-Hearst fault. It does not differ much from the different companies' maps but permits to compile all old geological data and to compare them with the recent mapping.

None of the 9 recent diamond drill holes intersected significant gold intersections although they succeeded to explain the geophysical anomalies or to cross-cut the structures looked for.

RECOMMENDATIONS

Only 72 of the 132 claims have been explored during 1984 and 1985. Some of these, the remnant of claims plus some adjacent properties deserve an aggressive exploration program for 1986.

Many geophysical anomalies are left unexplained in the area explored during 1985, particularly in the northwestern portion where some mineralization is present in a few pits and where the geology is structurally disturbed. Some VLF anomalies for instance should be detailed by I.P. along short N-S or E-W lines. Then, a few of them could be explained by stripping or by diamond drilling, depending on overburden conditions.

The northwestmost portion of the CFC option has not been explored yet by FL. Interesting mineralization and alteration has been reported from there, namely the base metal showing on claim MR 25 and many carbonate zones elsewhere. Geochemical anomalies of gold and CO₂ deserve a second look with I.P. before stripping or drilling.

The Hemlar property located southwest of the MMM option and the portion of Larder Lake covering the Mitchell-Hearst fault extension, as far north as the Raven River and Laguerre gold deposits also constitute good prospecting ground.

December 30, 1985


Magloire Bérubé
Magloire Berube, P. Eng.

The seal is circular with a double-line border. The outer ring contains the text 'INGÉNIEUR - ENGINEER'. The inner circle features a small floral emblem at the top, the name 'Magloire Bérubé' in the center, the number '9784' below the name, and the word 'QUÉBEC' at the bottom.

REFERENCES

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CERTIFICATE

I, the undersigned, Magloire Berube, residing at 1077 avenue Louis Jobin, Sainte-Foy, Province of Quebec, certify as follow:

- 1- I received a B. Sc. A. degree in Geology from Laval University in 1958 and I practice the profession of Geological Engineer since then;
- 2- I am a member of the Corporation des Ingenieurs du Quebec, of the Canadian Institute of Mining and Metallurgy, of the Prospectors and Developers Association and of the Quebec Prospectors Association;
- 3- I do not hold, nor I expect to receive an interest of any kind in the claims held by Falconbridge Limited, in Hearst and McElroy townships, Ontario, nor in any other properties of Falconbridge Limited;
- 4- The present REPORT OF WORK PERFORMED IN 1985 by FALCONBRIDGE LIMITED on the properties of CORPORATION FALCONBRIDGE COPPER and of MANY METALS MINES LIMITED, Hearst township, Ontario, dated December 1985, is based on 27 years of experience in exploration, development and mining in Northwestern Quebec and Northeastern Ontario, and on a good knowledge of all previous and recent work done on the properties of Falconbridge Limited in Hearst and McElroy townships, Ont.

Magloire Berube


Sainte-Foy, December 30, 1985

Magloire Berube, P. Eng.

APPENDIX

A

HOLE NO: 660-08 PAGE: 1/11

Falconbridge Ltd.

CLAIM L-495049

Property: (660) CORPORATION FALCONBRIDGE COPPER

Township: HEARST

Logged by: D. BOUCHER

LINE 48+00S

Latitude:

Azimuth: N 90° E

Elevation:

POST 73+50E

Longitude:

Dip: -50°

Length: 542 feet

Drilled by: DOMINIK

Started: 21/10/85

Ended: 22/10/85

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
0	16	OVERBURDEN gravel				
16	72	INTERBEDDED CHELT, ARGILLITE SILTSTONE and ARENITE From 16 to 20.6 CHELT med gray had trace py with a 1' brown carbonate unit at 18 From 20.6 to 27.3 Langroyphylite gray green earthy med grained minor biotite. From 27.3 to 28.8 CHELT same as above From 28.8 to 38.4 CHELT ARENITE med to light gray, massive 2% disc py, 1% moderately magnetic From 38.4 to 46 ARGILLITE black Very fine grained siliceous interbedded with cherty arenite thin to coarse bedded.				

Falconbridge Ltd.

HOLE NO: 08

PAGE: 2/11

Drilled by: _____ Property: _____ Latitude: _____ Longitude: _____
 Started: _____ Township: _____ Azimuth: _____ Dip: _____
 Ended: _____ Logged by: _____ Elevation: _____ Length: _____

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
72	200	<p>From 46 to 47.2 ARENITE light grey, fine grained with black earthy 1/8 fragments. Trace P₀ slightly magnetic</p> <p>From 47.2 to 72.5 SILTSTONE med grey to black and brown fine grained with a weak slaty cleavage almost parallel to the core axis.</p> <p>INTERBEDDED CONGLOMERATES, ARENITES AND MINOR ARGILLITES</p> <p>From 72 to 87.7 ARENITE med grey med grained, massive, moderately magnetic 3% P₀ diast. stage.</p> <p>From 87.7 to 91 CONGLOMERATE Pebbly to granular, Sub angular to sub rounded, cherty arenite, greywacke and Fusulinic fragments in a carbonate rich matrix</p>				

Falconbridge Ltd.

HOLE NO: 08

PAGE: 3/11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	Repeat	CO ₂ %
		up to 5% PO, PY. The contact is transitional with the lower unit							
		From 91 to 102.6 ARENITE med grey coarse grained, carbonate rich hard siliceous from 97 to 100							
		10% diss. PO, PY							
		From 102.6 to 125.3 Conglomerate same as above but with up to 30% nodular pyrite rounded to sub angular 1/2 to 3/4" in diameter	6001	102.5	106	3.5	30		0.049
		The PY is fine grained brownish with a thin rind of bright yellow med. grained PY	6002	106	111	5	40		0.540
		From 125 to 128.8 ARENITE light grey green fine grained 3% diss PO slightly magnetic. Gradually changes to a med to dark grey at the bottom of this section	6003	111	116	5	60	50	0.400
			6004	116	121	5	30		0.239
			6005	121	125.3	4.3	30		0.760

Falconbridge Ltd.

HOLE NO: 08

PAGE 4/11

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
		<p>From 128 to 132 CONGLOMERATE med grey fine greywacke clasts in a conductive graphitic argillite matrix. 3% disc. Po 20% Py from 131 to 132</p> <p>From 132 to 134.3 SILTSTONE med grey to light grey green med to thin bedded</p> <p>From 134.3 to 135.5 Same as 128.8 to 132 with black argillite clasts in a light grey matrix, parane 15% Po + Py</p> <p>From 135.5 to 148.3 ARENITE med grey to light green massive bedded 12 disc Po slightly magnetic, carbonate rich.</p> <p>From 148.3 to 166 ARGILLITE very fine grained, black, graphitic conductive with a weak slaty cleavage at 20° to the core axis 10% disc Po</p>				

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HOLE NO: 08

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	CO ₂ %
		From 166 to 186.2 CONGLOMERATE mottled grey black, subrounded to subangular arenite, chert and small green fuselitic clasts with 10% blebs and spots of Fe+Py locally up to 20% moderately magnetic	6006 6007 6008 6009	166 171 176 181	171 176 181 186.2	5 5 5 5.2	NIL NIL NIL NIL	4.64 5.75 1.22 3.80
		From 186.2 to 188 ARENITE med grey to light green, med to coarse grained towards bottom of section 1-2% Py Fe slightly magnetic						
		From 188 to 200 INTERBEDDED CONGLOMERATE AND ARENITE Same as 166 to 186.2 but locally to pebbly with Fe and Py blebs up to 0.1 in diameter						

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HOLE NO: 08

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU in ppb	CO ₂ %
		<p>From 347 to 352 ARGILLITE black siliceous massive thin bedded at 25' to the core axis</p> <p>From 352 to 361 CONGLOMERATE same as above except the top of the section contains up to 40% nodular Py while the bottom contains only 1-2% PY₀</p> <p>From 361 to 366 ARENITE same as above</p> <p>From 366 to 371 CONGLOMERATE same as above but with predominantly P₀ mineralization minor Py</p> <p>Very magnetic</p> <p>From 371 to 377 ARENITE coarse grained</p> <p>From 377 to 382 INTERBEDDED ARENITE SILTSTONE AND ARGILLITE 2-3% P₀, P₁ stage</p> <p>From 382 to 347 CONGLOMERATE 1% P₁, P₀ nodules</p>	6020	352.3	358	5.7	30	0.418

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HOLE NO: 08

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
397	542	<p>ARGILLITE predominantly very fine grained sediment with numerous cycles from black graphitic argillite which are poor to very conductive interbedded with brown siltstones and minor fine to med grained arenites, greywacke and conglomerates. The sediments are thin to massively bedded with abundant soft sediment deformation structures.</p> <p>At 406 1' qty carb. vein</p> <p>From 486 to 488 graphitic argillite very conductive</p> <p>From 521 to 523.7 ARENITE chlorite with 1/2 dia P₂O₅</p> <p>From 523.7 to 527.7 GREYWACKE 1/8" carb. shale with 1-2% dia P₂O₅</p> <p>From 527.7 to 534.2 ARENITE chloritic with 1-2% dia P₂O₅ slightly magnetic bedding is at 35° to the core axis</p> <p>END OF HOLE</p>				
542						

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
		<p><u>NOTE:</u> The coincident IP and magnetic anomalies have been satisfactorily explained by the drill hole. The drill hole intersected from to very conductive pyrobitite pyrobitite with 10 to 15% clay nodules py. and po.</p> <p>The very magnetic Po bearing sections is the cause of the magnetic anomaly.</p> <p>ACID DIP TESTS</p> <p>200' -37°</p> <p>550' -30°</p> <p>CORRECTED</p> <p><i>S. Small Boucher</i></p>				

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CLAIM L-42072

HOLE NO: 660-09 PAGE: 1/4

Drilled by: DOMINIK
 Started: 23/10/85
 Ended: 24/10/85

Property: (660) CORPORATION FALCONBRIDGE COPPER
 Township: HEARST
 Logged by: D. BOUCHNER

LINE 48+005
 Latitude:
 Azimuth: N 90° W
 Elevation:

POST 60+00E
 Longitude:
 Dip: - 45°
 Length: 606 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
0	42	OVERBURDEN CLAY				
42	228.7	<p>IN SITU BRECCIATE ARENITES light to med grey, moderately to heavily brecciated massive arenites. Fragments vary in size from boulders to small particles. The breccia interstices are hairline fractures up to 2" wide. These fissures were subsequently filled by a black, fine grained, graphitic cement which makes up to 15% of the rock locally.</p> <p>Some of the brecciated sections have a preferred orientation at 45° to the core axis where clasts and fissures are all aligned in this direction.</p>				

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HOLE NO: 09

PAGE: 2/4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	Repeat	CO ₂ %
		From 187 to 200.6 MAFIC DYKE med to coarse grained, dark grey green, massive with chilled contacts.							
228.7	246.	ARGILLITE black, thin bedded, propylitic argillite interbedded with thin arenite beds. From 228 to 237.7 nodular Py and P ₈ From 237.7 to 240 massive coolest nodules with a thin rind of bright yellow medium grained Pyrite. From 240 to 243 10% P ₈ , Py stgs and nodules The contacts are gradational with the upper and lower arenite. Pyroclastic rich sections are very magnetic.	6021 6022 6023 6024 6025 6026	227.5 228.8 231 236 240 242.7	228.8 231 236 240 242.7 245.5	1.3 2.2 5 4 2.7 2.8	NIL 10 NIL 70 NIL NIL		1.65 1.11 0.900 0.798 1.38 1.61

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HOLE NO: 09

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU in ppb	CO ₂ %
246	291	IN SITU BRECCIA same as above						
291	297.3	ARGILLITE black, argillitic thin bedded with minor thin arenite beds 5% Fe moderately to very magnetic	6027 6028	291 294.5	293 297.7	2 3.2	NIL NIL	2.37 3.40
297.3	356	IN SITU BRECCIA same as above but chert composition are intermediate to mafic volcanics						
356	493	INTERMEDIATE VOLCANIC med grey to light green, Very fine to med grained chloritic and carbonate rich, massive. AT 465 8" white qtz carb. vein AT 349 and 352, 1' and 6" Blue grey qtz carb. veins						

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HOLE NO: 09

PAGE: 4/4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
493	606	INSITU BRECCIA same as above but chert composition are intermediate to mafic volcanics.				
606		END OF HOLE				
		<p><u>NOTE:</u> The coincident IP and Mag. anomalies have been satisfactorily explained by the drill hole. The hole intersected a thick graphitic argillite unit with massive, coarse nodular pyrite and up to 10% discs + steps of Pyrochlore (magnetic)</p> <p>ACID DIP TESTS</p> <p>200' -40° 400' -32° 600' -35°</p> <p>CORRECTED</p> <p>Donald Bausby</p>				

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CLAIMS L 103640 & L 476665

LINE 501005

POST 49+50 E

Property: (660) CORPORATION FALCONBRIDGE COPPER
 Township: HEARST
 Logged by: D. BOUCHER

Longitude:
 Dip: -45°
 Length: 506 feet

Latitude:
 Azimuth: N 45° W
 Elevation:

Drilled by: DOMINIK
 Started: 25/10/85
 Ended: 26/10/85

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
0	20'	OVERBURDEN FROM 0 to 19: Clay FROM 19 to 20: GRAVEL				
20	48.3	MAFIC VOLCANIC grey green, fine grained massive and non magnetic. Flow breccia from 31. to 35. and 1/8" pyroxene needles from 46.4 to 48.3				
48.3	51	MAFIC TUFF grey green, med grained thin bedded at 25° to the core axis				

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
51	86.5	MAFIC VOLCANIC grey green, fine grained massive non- magnetic. Lava flows are 3 to 5 ft thick with flow breccias at the same intervals From 79 to 80 Mafic tuff thin bedded				
86.5	111	GABBRO med to dark grey, coarse grained, massive From 95 to 96 magnetic At 105 - 6" phlogopite porphyry dyke with sharp contacts at 60° to the core axis.				

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
111	157	<p>MAFIC VOLCANIC grey green, fine grained massive with sheet flow brecciated sections. AT 140' - 6" qtz carb. vein 1% pyrite AT 149' fault mud seam and rubble</p>				
157	199.2	<p>IN SITU BRECCIA moderately to heavily fractured mafic volcanic. Fragments vary in size from boulders to small particles. The breccia interstices are from hairline up to 2" wide. The Breccia is held together by a black fine grained pyroclitic cement. It is conductive along slickenside surfaces and locally where graphite is concentrated.</p>				

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HOLE NO: 10

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
199.2	212	<p>From trace to 1% fine grained ps. is found throughout the section with the more mineralized sections being more magnetic from slightly to moderately magnetic.</p> <p>From 193.5 to 195.5 Dioritic dyke with chilled contacts.</p> <p>At 200' acid dip test -41°</p> <p>MAFIC VOLCANIC fine to med. grained grey green with flow brecciated sections.</p>				
212	251	<p>IN SITU BRECCIA same as 157 to 199.2</p> <p>At 215'-5" qtz carb. vein</p> <p>From 228 to 229.5 - coarse grained mafic dyke with chilled contacts</p>				

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HOLE NO: 10

PAGE: 5/6

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	CO ₂ %
251	339	<p>MAFIC VOLCANIC med to dark grey fine to coarse grained from the edges to the core of massive flows.</p> <p>From 292.5 to 295 porphyritic light grey white feldspars in a grey fine grained matrix.</p> <p>Slightly magnetic</p> <p>1% disc. pyrite</p>						
339	463	<p>IN SITU BRECCIA same as 157 to 199.2 except that clast compositions are MAFIC and INTERMEDIATE VOLC.</p> <p>FROM 372 to 404 moderately silicified, carbonated and pyritized up to 3% py.</p> <p>AT 381 scattered 1/8 to 1/2" blbbs of PO up to 5% very magnetic</p>	6041 6042	376 400	380 404.5	4 4.5	NIL NIL	4.61 3.65

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HOLE NO: 10

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	CO ₂ %
463	506	<p>From 416 to 419.5 1-3%</p> <p>INTERMEDIATE VOLCANIC red grey, fine to coarse grained, massive.</p> <p>From 479.5 to 481.9</p> <p>491 to 493.3 and 502 to 506</p> <p>2 to 5% disseminated and blebs of PO, Py and minor CP</p>	6043	4900	4925	2.5	NIL	0.958
506		END OF HOLE						

ACID DIP TEST
200' -41°
400' -42°
CONNECTED

Donald B Owen

NOTE: The coincident IP and Mag anomalies have been satisfactorily explained by the drill hole. The hole intersected two IN SITU BRECCIATED ZONES cemented by a black fine grained graphitic cement. The graphitic cement is conductive. The magnetic anomaly is caused by local concentrations of pyroclastic

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CLAIMS L 492276 & L 476446
LINE 254005

Property: (660) CORPORATION FALCONBRIDGE COPPER
Township: HEARST
Logged by: D. BOUCHER

POST 64400 E
Longitude:
Dip: -45°
Length: 526 feet

Drilled by: DOMINIK
Started: 28/10/85
Ended: 29/10/85

Latitude:
Azimuth: N 45° W
Elevation:

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
0	74	OVERBURDEN Sand				
74	245	INTERMEDIATE VOLCANIC From 74 to 92 med. grey green, coarse even grained massive, dioritic From 88.6 to 89.4 dark grey unit with sharp contacts at 60° to the core axis. Trace disc. pyg. slightly magnetic From 92 to 92.5 black fine grained hard <u>pyroclastic</u> <u>concretion</u> From 92.5 to 245 med to light grey green fine to med. grained massive andesite trace to 1% disc. Very fine py. slightly to non magnetic. At 121 3" pyroclastic altered zone @ 20° to the core axis				

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HOLE NO: 11

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	A _u in ppb	CO ₂ %
		From 129.6 to 132 black fine grained, hard. <u>conductive graphitic zone</u> At 138 1' weakly sheared section						
		From 165 to 166 IN SITU BRECCIA 1/2 to 3/4" clast cemented with a black, fine grained cement At 192.5, 196 and 201 2" white qty veins						
245	251	TRACHYTE grey brown, fine grained rubby poor core recovery 3% diss py.	6049 6050	245 248	248 251	3 3	NIL NIL	5.66 8.68
251	254	Dacite dark grey, fine grained massive, hard trace to 28 diss py over 6"						

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HOLE NO: 08

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
200	397	<p>INTRAFORMATIONAL CONGLOMERATES ARENITES AND MINOR ARGILLITES</p> <p>The arenite units are med grey, med to coarse grained, massive and generally carbonate rich and carry 1 to 3% diss. Po and minor Py. The conglomerates are pebbly to granular angular to subrounded clasts with an overall med grey colour. Clast composition vary from fine to coarse grained arenite, siltstone, and argillite and chert. The matrix is a conductive graphitic argillite. The conglomerate sections are generally heavily mineralized with nodular pyrite and Po from 3-10%. The pyrobitite rich sections are very magnetic.</p> <p>From 200-216 Arenite fine grained to granular trace P, Py slightly magnetic</p>				

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HOLE NO: 08

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	CO ₂ %
		From 216 to 236 CONGLOMERATE 2% Po, Py dis. + blebs From 236 to 245 ARENITE same as above From 245 to 251 ARGILLITE black, pyroclitic concretion, thin bedded at 20° to the core axis with up to 7% Po, Py Very magnetic From 251 to 254 ARENITE fine to med grained chlorite 1% Po slightly magnetic From 254 to 266 CONGLOMERATE similar to above but with a med grey carbonate rich matrix. 3% Po, Py dis + blebs 1' Argillite bed at 263.6 From 266 to 283 ARENITE massive chlorite 1-2% Po, Py At 274, 279, 281 - .4' blue grey qtz, carb. veins From 283 to 285 ARGILLITE black siliceous. Contact with lower unit is sharp at 25° to the core axis From 285-291 ARENITE same as above	6010	248.2	250.7	2.5	NIL	0.479
			6011	253.5	256	2.5	NIL	3.22
			6012	256	261	5	NIL	6.28
			6013	261	266	5	NIL	5.76

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HOLE NO: 08

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU in ppb	CO ₂ %
		From 291 to 293 ARGILLITE siliceous bedding is at 45° to the core axis						
		From 293 to 300 ARENITE same as above	6014	299.7	302	2.3	NIL	0.600
		From 300 to 302 CONGLOMERATE similar to above but cherts show evidence that they formed by soft sediment deformation (slumping). Mottled earthy light grey, porous from 15 to 20% Py minor Po						
		From 302 to 308 ARENITE same as above						
		From 308 to 311 CONGLOMERATE 5% Po, Py stags and blebs.	6015	308.2	311.5	3.3	NIL	0.577
		From 311 to 329 ARENITE massive some light green speckling slightly magnetic						
		From 329 to 341 CONGLOMERATE 10% Po, Py in a black argillite matrix	6016	329.4	334	4.6	NIL	0.467
		From 341 to 344 ARENITE same as above with light green speckling	6017	334	339	5	NIL	1.23
		From 344 to 347 CONGLOMERATE same as above	6018	339	341.5	2.5	NIL	0.898
			6019	344.6	346.6	2.0	NIL	0.956

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
254	258	INTERMEDIATE TUFF light grey green thin bedded at 40° to the core axis				
258	284	INTERMEDIATE VOLCANIC light grey green fine grained, massive At 262 2" qtz vein From 270.3 to 272 black fine grained, <u>graphitic</u> <u>very-conducting</u> zone 5% disc. and stgs of PO Very magnetic				
284	286	INTERMEDIATE TUFF light grey green thin bedded at 40° to the core axis				
286	297	MAFIC VOLCANIC grey olive green fine grained, massive, colloidal trace to 2% disc. locally slightly magnetic				

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HOLE NO: 11

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	A _u in Ppb	CO ₂ %
297	310	INTERMEDIATE TUFF light grey green, coarse grained crudely bedded at 30° to the core axis						
310	444	INTERMEDIATE VOLCANIC light to med. grey fine to medium grained massive, non magnetic						
444	453	MAFIC VOLCANIC grey olive green fine grained massive						
461	476	Syenite dark grey coarse grained massive with light grey to pink orange feldspar 20% dark amphiboles 1% disc. py	6051	471	476	5	NIL	1.20

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HOLE NO. 11

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
476	504	INTERMEDIATE VOLCANIC med grey fine grained massive with short flow brecciated sections note magnetic				
504	517	INTERMEDIATE TUFF med grey, med grained thin to thick bedded at 40° to the core over from 508 to 511 minor 1/4 to 1" black fine grained seams with 3% P ₂ O ₅ , py and minor cp				
517	526	MAFIC VOLCANIC dark grey green fine grained massive chloritic slightly magnetic. Trace fine grained disc. py.				
526		END OF HOLE ACID DIP TEST 200' -43° 400' -37° CORRECTED				

Donnell
Bouché

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HOLE NO: 660-12 PAGE: 1 of 3

CLAIM L-496276

Drilled by: DOMINIK DRILLING (1981) INC. Property: HEARST TWP., C.F.C. JOINT VENTURE Latitude: 27+00 S Longitude: 68+00 E
 Started: 85 11 04 Township: of HEARST (PW-660) Azimuth: 135° Dip: -45°(collar), *
 Ended: 85 11 05 Logged by: J. André Carrier, Eng. Elevation: _____ Length: 516 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU in ppb	Repeat
0	80	NW casing						
0	80	AW casing						
80	516	AQ wireline core (good to locally poor R.D.D.; excellent to fair core recovery) laid into 19 wooden boxes.						
~3	80	<u>OVERBURDEN</u> Sand.						
80	282.5	<u>INTERMEDIATE TO MAFIC VOLCANIC ROCKS</u> Medium grey, generally very fine to fine-grained flows (might include some tuffe). Practically non-magnetic, well chloritized and rather soft. Local foliation: ~50°A (138, 174), 35°(257), 35-60°(277). Local brecciation: 138, 218, near 268, 276-278. Average of 1% millimetric to centimetric calcitic white stringers, often increasing in brecciated or foliated portions.	M 6166 M 6167 M 6168 M 6169 M 6170 M 6171 M 6172 M 6173	137.0 172.5 213.0 262.0 267.0 269.0 274.0 279.0 279.0	139.0 176.0 218.0 267.0 269.0 274.0 279.0 282.5	2.0 3.5 5.0 5.0 2.0 5.0 5.0 3.5	NIL NIL NIL NIL NIL NIL NIL NIL	

Falconbridge Ltd.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb
202.5	341	<p>Brecciated quartz veinlet 267.5-268.5. Usually trace to minor Py.</p> <p><u>PORPHYRITIC TUFFACEOUS MAFIC VOLCANIC ROCK</u></p> <p>Block-dotted, dark grey, medium-grained (1 to 5mm), well chloritized; varying from well foliated to fairly massive. Could be called an amphibolite (analogue to 368-382 of hole 613-03). ~1% mm. to cm. white stringers of adolite with quartz. Only minor Py in places.</p> <p>208.5 - 293.5 & 330-336: fine-grained intermediate volcanic rocks; 6-inch carbonate veinlet at 289.5. Approximate contact attitude: 60°/34 (330) & 35° (336). Foliation: 50°/34 (295), 45° (331). Foot-core: 1.5 feet from 296 to 300. Some fault gouge recovered above 300.</p>	<p>M 6174 M 6175 M 6176 M 6177 M 6178</p>	<p>282.5 287.5 291.5 296.5 301.0 306.0</p>	<p>287.5 291.5 296.5 301.0 306.0</p>	<p>5.0 4.0 5.0 4.5 5.0</p>	<p>NIL NIL NIL NIL NIL</p>
341	511	<p><u>INTERMEDIATE TO MAFIC VOLCANIC ROCKS</u></p> <p>Medium to dark greenish grey, fine-grained, well chloritized flows. More mafic (darker & bluish-tinged) below 414. 1-3% white stringers of adolite and quartz; reaching 10% & over at 354-359 & 391-400. Some thin veinlets at 421 & 502.</p>	<p>M 6179 M 6180 M 6181 M 6182 M 6183</p>	<p>354.5 391.0 396.0 496.0 498.0</p>	<p>359.0 396.0 401.0 498.0 503.0</p>	<p>4.5 5.0 5.0 2.0 5.0</p>	<p>NIL NIL NIL NIL NIL</p>

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU in ppb
511	516	<p>> 2% Py from 496 to 498. Only trace elsewhere. Not much good foliation: ~ 30% A (343), ~ 35% (472). <u>CHLORITIZED GABBRO - AMPHIBOLITE</u> Dark grey, medium-grained (mostly 1-5 mm), fairly massive appearance. Practically not magnetic. Finer-grained in upper 2 feet. Trace of calcite. Not more than trace of sulfides (more at upper contact). <u>END OF HOLE.</u></p>					
	516	<p>Casings pulled out. Red painted wooden post, bearing an aluminum identification tag, set into the hole collar. * Etal tube tip determination: - 44° (200), - 44° (400).</p>					
		<p>J. André Carrier, Eng. 85 11 21</p>					

Falconbridge Ltd.

CLAIM L 420721

Longitude: 64°00'E
 Dip: -45°(collar), *
 Length: 716 feet

Latitude: 52°00'S
 Azimuth: 270°
 Elevation: —

Property: HEARST TWP., C.F.C. JOINT VENTURE
 (PN-660)
 Township: of HEARST
 Logged by: J. André Carrier, Eng.

Drilled by: DOMINIK DRILLING (1981) INC.
 Started: 85 11 07
 Ended: 85 11 09

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	Repeat
0	60	NW casing						
0	62	AW casing						
61	716	AQ wireline core (very good to fair R.A.D.; excellent to good core recovery) laid into 28 wooden boxes.						
~3	61	<u>OVER BURDEN</u> 0-50: sand, 50-60: gravel.						
61	122	<u>ANDESITES</u> Greenish gray, relatively homogeneous; very fine to fine-grained, chloritized, a little calcitic in some places. Slightly to non-magnetic. 1-2% mm. to cm. white calcitic stringers. Foliated (nearly isotropic): ~30% A (106-109). Practically no sulfides. Sensitively gradual lower contact.	M 6184	106.0	111.0	5.0	NIL	
122	~151	<u>MAFIC TO ULTRA MAFIC VOLCANIC ROCKS</u> Dark to blackish gray; fine to nearly medium-grained. Weakly magnetic. Might include several tuffaceous intervals. 1-4% quartz-calcite stringers.	M 6185 M 6186 M 6187	142.0 145.0 148.0	145.0 148.0 151.0	3.0 3.0 3.0	NIL NIL 2.0	NIL

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb
~151	~225	<p>Last 3 feet look bleached. Minor Py 142-145.</p> <p><u>MOSTLY MAFIC VOLCANIC ROCKS</u></p> <p>Medium to dark grey flow (might include tuffaceous portions); locally porphyritic intertals. Chloritized, with some greenish tinge. Slightly magnetic in places. No good bedding or foliation (except ~35% near lower end). Gradual lower contact. Some alteration (bleaching) evident below 200, and increasing with depth. 1/4% Py in the upper first feet; minor Py here & there (mostly below 200). ~1% quartz-calcite stringers generally; a 1-inch quartz stringer with bleached wall at 200.</p>	<p>M 6188 M 6189 M 6190 M 6191 M 6192</p>	<p>151.0 156.0 199.0 209.0 220.0</p>	<p>156.0 161.0 202.0 214.0 225.0</p>	<p>5.0 5.0 3.0 5.0 5.0</p>	<p>NIL NIL NIL NIL NIL</p>
~225	~379	<p><u>ALTERATION ZONE</u></p> <p>Intermediate to mafic volcanic rocks (might include some aegirite), discolored in light grey to beige and in bright green (occasional medium to dark grey portions). Fine to medium-grained. Generally non-mag note. Darker grey (less altered) portions: 250,</p>	<p>M 6193 M 6194 M 6195 M 6196 M 6197 M 6198 M 6199 M 6200</p>	<p>225.0 230.0 235.0 239.5 259.5 264.5 269.0 274.0</p>	<p>230.0 235.0 239.5 241.0 264.5 269.0 274.0 279.5</p>	<p>5.0 5.0 4.5 1.5 5.0 4.5 5.0 5.5</p>	<p>NIL NIL NIL NIL NIL NIL NIL 30</p>

Falconbridge Ltd.

HOLE NO: 660-13

PAGE: 3 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU in Ppb	Repeat
		259-260.5, 262, 265, 286-288, 298-299, 302, 324.5-327. Fuchsite (green) - bearing interbeds:	M 6201 M 6202 M 6203 M 6204	279.5 281.0 283.0 284.5	281.0 283.0 284.5 288.5	1.5 2.0 1.5 4.0	10 20 20 280	410
		230.5-235, 278.5, 279.5-281.5, 284, 306.5-311 (bright green), 315-316, 324, 327-329 (bright green), 342.5-345 (fairly bright green), 349-351, 352.5-353.5. Minor to trace Py - are widespread; a little more at 200, 294-301 (~1/2% Py), 323.	M 6205 M 6206 M 6207 M 6208	288.5 293.5 298.0 301.0	293.5 298.0 301.0 306.5	5.0 4.5 3.0 5.5	210 140 190 100	190/22
		264-352: 2-5% quartz stringers frequent; in places, dm. quartz stringers rising total quartz to more than 10% (279.5-285 & 344-352.5). Good foliation (in places): ~40°A(239), ~35°(267), 45°(306), 35°(331), 45°(379).	M 6209 M 6210 M 6211 M 6212	306.5 311.0 316.0 321.0	311.0 316.0 321.0 326.5	4.5 5.0 5.0 5.5	20 10 10 140	140
			M 6213 M 6214 M 6215 M 6216	326.5 330.0 334.0 339.0	330.0 334.0 339.0 342.0	3.5 4.0 5.0 3.0	20 NIL 10 10	
			M 6217 M 6218 M 6219	342.0 345.0 349.0	345.0 349.0 350.5	3.0 4.0 1.5	NIL NIL NIL	
			M 6220 M 6221 M 6222	350.5 353.5 358.0	353.5 358.0 363.0	3.0 4.5 5.0	30 10 NIL	
~379	708.5	<u>WEAKLY ALTERED ZONE</u> Light grey, mostly fine-grained, somewhat discolored to fuscous or greywacke-like metasediments (analogous at several places to in-situ brecciate arenite described at 42-228.7 of hole # 660-09) mixed with mudstone (especially in the upper portion). Very slightly to non-magnetic.	M 6223 M 6224 M 6225 M 6226	373.0 379.0 391.5 421.0	379.0 384.0 394.0 426.0	6.0 5.0 2.5 5.0	NIL 40 10 NIL	30
			M 6227 M 6228	453.0 457.5	457.5 461.0	4.5 3.5	NIL 10	

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	Repeat
		<p><i>Haseline to centimetric complex shapes (decimetric at 450 & 479) black cement (from traces to reaching 5% of the rock at several places). Softer & slightly graphitic in places (mostly 417-461 & 479-525); very hard (cherty) in places below 600.</i></p> <p><i>Quartz vein material at 391.5-393.5, 584.5-585.5; dm. veinlets of quartz-carbonate at 592, 662, 675.5, 679, 690.5, 704 & 706.</i></p> <p><i>Generally arise-curved by 1-3% mm. to cm. white stringers of carbonates with red site; often weathering brown; sometimes open fracture with well formed crystals; locally more abundant due to arrangement of stringers unparallel to core axis.</i></p> <p><i>Only traces to locally minor Py; 2 mm segregated stringer at 668.</i></p> <p><u>BASIC DYKE</u></p> <p><i>Blackish, fine-grained, quite damage-prone. Chilled upper contact (60-9%). Very hard in the upper 4 feet. Practically non-magnetic. Little altered. No sulfides. Rare haseline to mm. calcitic stringers.</i></p>	M 6229	571.0	576.0	5.0	NIL	
			M 6230	584.0	586.0	2.0	NIL	
			M 6231	586.0	591.0	5.0	NIL	
			M 6232	591.0	596.0	5.0	NIL	
			M 6233	609.0	614.0	5.0	NIL	
			M 6234	633.0	638.0	5.0	NIL	
			M 6235	638.0	643.0	5.0	10	
			M 6236	643.0	648.0	5.0	100	150
			M 6237	648.0	653.0	5.0	10	
			M 6238	653.0	658.0	5.0	NIL	
			M 6239	658.0	663.0	5.0	NIL	
			M 6240	663.0	667.0	4.0	NIL	
			M 6241	667.0	671.0	4.0	NIL	
			M 6242	671.0	675.0	4.0	NIL	
			M 6243	675.0	680.0	5.0	NIL	
		M 6244	680.0	685.0	5.0	NIL		
		M 6245	685.0	691.0	6.0	NIL		
		M 6246	691.0	696.0	5.0	NIL	NIL	
		M 6247	703.5	708.5	5.0	NIL		
708.5	716		M 6248	708.5	712.5	4.0	NIL	

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HOLE NO: 660-13 PAGE: 5 of 5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AV
	716	<p><u>END OF HOLE.</u></p> <p>Cavings pulled out. Red painted wooden post, bearing an aluminum identification tag, set into the hole collar.</p> <p>* Etch tube dip determination: -45°(200), -43°(400), -38°(600).</p> <p>J. André Carrier, Eng. 85 // 21</p>					

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CLAIM L-476622 & L-511621

Property: MANY METALS MINES LIMITED
 Township: HEARST, ONT.
 Logged by: MAGLOIRE BERUBE, P.ENG.

Latitude: L-96+00S
 Azimuth: 315°
 Elevation: *see log*

Longitude: P-54+00E
 Dip: -45°
 Length: 794 feet

Drilled by: DOMINIK DRILLING
 Started: OCT. 22, 1985
 Ended: OCT. 26, 1985

FROM	TO	DESCRIPTION AQ CORE SIZE	SAMPLE NO.	FROM	TO	LENGTH
0	72	OVERBURDEN { 0-64: <i>pink to clay,</i> { 64-72: <i>granul.</i> CASING PULLED OUT				
72	206	ULTRAMAFIC LAVAS Light to medium gray, highly felsic, soft, massive, very uniform, <i>scarcely</i> magmatic, rare traces of cubic pyrite 72.0-106.5: very light gray, mostly tabe, very soft, locally schistose 90° with core axis. 106.5-114.5: basaltic inclusion, dark bluish green, massive, hard, brittle, aphanitic, very uniform, through magmatic, sharp contacts at 20° and 35°. idem at 120.0-120.6 and 140.5-141.5 114.5-206.0: as described, gray, highly felsic				

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DE	A	DESCRIPTION	Echantillon No	DE	A	Longueur	Hu Ppb	CO ₂ %
206.0	436.0	ULTRAMAFIC LAVAS bluish grey, highly talcose, soft, massive, very uniform, moderately magmatic. no pyrite Frequent muddy seams (talcose), most of them at high angle with core axis (60°-70°), the main ones at: 176, 229, 245, 291-295, 310-311, 341, 385-398, 416, 471-476. ULTRAMAFIC LAVAS OFTEN CUT BY DIORITE DYKES similar to above but generally pelitic at 60° and rarely magmatic. 4184.5-500.0: DIORITE, altered, dark grey, fine-grained, hard, massive, very uniform, not magnetic, traces of dissemin. py. 550.0-551.5: DIORITE, massive, contacts at 55°, traces to 1% py. idem at: 545-546. 555.5-575: DIORITE AS 484.5-500.0, dark grey, sharp contacts 60° & 70° 1/2% dissemin. py.	M 6044	548.5	552.0	3.5'	NIL	2.16
436.0	629.0							

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DE	A	DESCRIPTION	Echantillon No	DE	A	Longueur
629.0	660.0	<p>575.0-595.5 : schistose ultramafic lenses, as described, but strongly foliated at rather low angle with cpx axis (0°-45°).</p> <p>595.5-622.5 : DIORITE as 484.5-500.0 - dark grey, massive, sharp contacts 60°, local dissem. M (St)</p> <p>606-607 : strongly schistose 45°, fault zone in centre</p> <p>622.5-629.0 : as described from 575 to 595.5</p>				
660.0	674.0	<p>INTERMEDIATE FLOWS OR TUFFS</p> <p>medium-green, very fine-grained, band, uniform, good foliation given by calcite infiltration along fractures (bedding?) at 40°. Not magnetic. No py.</p> <p>DIORITE DYKE</p> <p>dark grey, fine-grained, massive, as above contacts at 40°</p>				
674.0	712.0	<p>INTERMEDIATE FLOWS similar to 629-660 but less carbonated and massive to foliated (Added: to/see?)</p> <p>Trace to 1% dissem. cubic pyrite</p>				

Falconbridge Ltd.

HOLE NO: 613-01 PAGE: 4 of 4

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au ppb	Recheck	CO ₂ %
712.0	752.0	SHEARED AND SILICIFIED INTERMEDIATE FLOWS? strongly foliated 40° with core axis, showing chlorite rich green bands finely alternating with silica-rich white bands. Trace of H ₂ O, locally up to 1%.	6045	746.5	750.0	3.5	100	140	3.90
752.0	789.5	INTERMEDIATE FLOWS AS 674-712 frequent carbonated infestations near center of H ₂ O.							
789.5	794.0	DIORITE, dark grey, massive, fine-gr., uniform contact 45°, Trace of H ₂ O.							
	794.0	END OF HOLE							
		DIP TESTS: 200': 42° after correction 400': 44.5° " 650': 36.5° "							

Falconbridge Ltd.
 CLAIM L-476662

Property: (613) MANY METALS MINES LIMITED
 Township: HEARST
 Logged by: D. BOUCHER

LINE 90+00S
 Longitude: 46+00E
 Azimuth: N45°W
 Elevation: 726 feet

Drilled by: DOMINIK
 Started: 27/10/85
 Ended: 29/10/85

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
0	23	OVERBURDEN <i>Gumbo clay</i>				
23	29.5	ULTRAMAFIC VOLCANIC bluish black <i>to dark grey, fine to coarse grained, soft and talcose. It is very blocky, breaking up in 1-2" core length. moderately to very magnetic</i>				
29.5	34.0	GABBRO <i>Very dark grey green, med to coarse grained, massive and earthy, chloritic non magnetic</i>				

Falconbridge Ltd.

Property:
Township:
Logged by:

Latitude:
Azimuth:
Elevation:

Property:
Township:
Logged by:

Drilled by:
Started:
Ended:

Longitude:
Dip:
Length:

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
34	726	<p>ULTRAMAFIC VOLCANIC bleuish black to dark grey, fine to coarse grained soft talcose and carbonate rich. Very blocky at the top of the section becoming more massive with depth. Scattered 1" to 1 ft Gabbroic nodules in at 44, 51, 56</p> <p>The ultramafic volcanics are generally moderately to very magnetic except from 300 to 460 where they are only slightly to non magnetic. Traces of pyrite is found throughout with up to 1-2% P_2 locally usually in about 1-4" sections widely scattered. Probably at the flow contacts.</p>				

Falconbridge Ltd.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	Repeat	CO ₂ %
		AT 257 Fault with mud seam From 275 to 292 Syeno Diorite 1' purplish grey med. grained with 18% py. Thenshapatite coarse grained massive med. to dark grey to purple grey, magnetic with 1% disse 1/8 to 1/4" py cubes. At 326 Fault 1ft mud seam poor core recovery from 325 to 327 From 331 to 333 Syenite purplish grey dyke coarse grained 20% mfic minerals, 1% py. From 346 to 348 Syenite fine grained pinkish with 20% py AT 370 1' Diomite disse med. grey coarse grained with 5% py From 296 to 400 abundant 1/4" white qtz, carb. veining From 401 to 405 Diomite med grey coarse grained massive slightly magnetic 1% disse py.	6046	275	280	5	NIL		1.88
			6047	331	333	2	NIL		5.60
			6048	401	406	5	250	150	9.57

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HOLE NO: 02

PAGE: 4/5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
		From 434 to 436.3 Syenite fine grained grey dyke zone py Very magnetic.				
		At 426.5 and 441.5 well preserved olivine spinifex texture				
		From 408 to 429 abundant scattered 1/2" qtz, carb. veining				
		From 446 to 456 Diorite med grey, med grained massive trace to 1% disc. py slightly magnetic				
		At 471 Fault with mud seam				
		From 471 to 474.5 Lamprophyre dark grey brown coarse grained massive biotite lamprophyre non magnetic				
		At 476 6" Lamprophyre dyke				
		At 461 well preserved olivine spinifex texture				

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HOLE NO: 02 PAGE: 5/5

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH
726		<p>At 541 Fault At 656 Fault with mud seam and brecciated from 652 to 656</p> <p>END OF HOLE Acid dip test at 200 -40° 400 -41° 700 -28° CORRECTED</p> <p><u>NOTE:</u> This hole was drilled a distance away from the main showing area where most of the work was done in the past. The purpose of the hole was to intersect the same alteration zone along the Mitchell- Harriet fault. No Fuchsite or Carbonatized zone was intersected</p> <p>Donald Bouchey</p>				

Falconbridge Ltd.

CLAIM L-429150

Drilled by: DOMINIK DRILLING (1981) INC. Property: HEARST TWP., MANY METALS OPTION Latitude: 70+00 S Longitude: 52+50 E
 Started: 85 10 29 Township: of HEARST (PM-613) Azimuth: 135° Dip: -45° (collar), *
 Ended: 85 11 05 Logged by: J. André Carrier, Eng. Elevation: --- Length: 825 feet

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	AU in Ppb	Repeat
0	12	NW casing						
0	12	AW casing						
12	825	AQ wireline core (very good to fairly poor R.R.D.; excellent to locally poor core recovery) laid into 34 wooden core boxes.						
~3	~6	<u>OVER BURDEN</u> Boulders on broken-in-place bedrock.						
~6	368	<u>INTERMEDIATE TO MAFIC VOLCANIC ROCKS</u> (might include interflow intercaliments) Darker to lighter grey, fragmentally with tinges of green; very fine to nearly medium- grained. Several sections quite homogeneous & massive; others brecciated in-situ or showing rubby, even locally pyroclastic-like structure (more brecciated in last fifth, with caliche near the end). Approximate S ₀ attitudes: ~45°(44), ~30° ¼A (119), ~50°(184). Often well chloritized. Frequent minor Py.	M 6052 M 6053 M 6054 M 6055 M 6056 M 6057 M 6058 M 6059	50.5 56.0 61.0 63.0 64.5 65.5 67.0 69.5 73.5	56.0 61.0 63.0 64.5 65.5 67.0 69.5 73.5	5.5 5.0 2.0 1.5 1.0 1.5 2.5 4.0	NIL NIL NIL 10 10 20 NIL NIL	
			M 6060 M 6061 M 6062	172.0 177.0 183.0	177.0 183.0 188.0	5.0 6.0 5.0	NIL NIL NIL	

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb
		Generally non-magnetic (except slightly so, locally near the end). 1/2-2% millimetric to centimetric white stringers of quartz-calcite; moreover, two veinlets at 62.7-64.6 (calcite-rich) & at 261.5-263.2 (quartz-rich & holding ~1% Py). Near 73: fault mirror ~20% with slickensides 50% 50.5-69.5: ALTERED ZONE. Light brownish silic grey; mixture of homogeneous and brecciated portions (might correspond to an altered granite or gneiss); apparently weakly altered to 73.5. Not very siliceous. Holding some sericite. Over 1% Py in the vicinity of calcite-quartz vein. 230-233: greenish, poorly bedded, lapilli stuff.	M 6063 M 6064 M 6065 M 6066 M 6067 M 6068	250.0 256.5 261.5 263.2 358.0 363.0	256.5 261.5 263.2 268.2 363.0 368.0	6.5 5.0 1.7 5.0 5.0 5.0	NIL NIL NIL NIL NIL NIL
368	382	<u>PORPHYRITIC TUFFACEOUS MAFIC VOLCANIC ROCK</u> Black-dotted medium grey, 20-50% medium to coarse-grained blackish, subhedral to sub-rounded (plagioclase?) of mafic mineral in a medium to dark grey fine-grained matrix. Non-magnetic. Some appearance of a poorly	M 6069	377.0	382.0	5.0	NIL

Falconbridge Ltd.

FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	Repeat
382	576.5	bedded oligomictic lepidilli tuff; could be called an amphibolite. Some what pyroclastic contacts. Suggestion of bedding: 35° N at 380.	M 6070 M 6071 M 6072 M 6073 M 6074 M 6075 M 6076 M 6077 M 6078 M 6079	382.0 387.0 392.0 394.0 398.0 401.0 405.5 409.5 413.0 416.5 419.5	387.0 392.0 394.0 398.0 401.0 405.5 409.5 413.0 416.5 419.5	5.0 5.0 2.0 4.0 3.0 4.5 5.0 3.5 3.5 3.0	20 10 NIL 10 80 NIL NIL 10 100 20	
		<u>ALTERATION ZONE</u> Greenish beige to yellowish grey bleached intercession, mostly of fine to medium-grained arinite & pyroxenes with some tuff bands. Non-magnetic. ~5% quartz stringers in the lighter colored portions (especially 411-465 & 507-522). Fusible green at several places (more in - tense 392-393, 409, 416.5-417.5, 422-424, 428, 445-446.5, 511-514, 519-522.5, 558.5) Approximate S ₁ attitudes: 60°/A (513), 50°(520), 45°(559). 469.5 ~ 499: less altered-looking & coarser-grained, darker medium grey tuffaceous amphibolite (in part analogous to 368-382) mixed with arinite in its central portion; some large medium-grained clasts in the last feet. Py-leaving at several places.	M 6080 M 6081 M 6082 M 6083 M 6084 M 6085 M 6086 M 6087 M 6088 M 6089 M 6090 M 6091	419.5 421.5 424.0 429.0 433.0 434.0 439.0 444.5 447.0 452.0 458.0 463.0	421.5 424.0 429.0 433.0 434.0 439.0 444.5 447.0 452.0 458.0 463.0 466.0	2.0 2.5 5.0 4.0 1.0 5.0 5.5 2.5 5.0 6.0 5.0 3.0	20 NIL 20 NIL NIL NIL NIL NIL NIL NIL 450 NIL	120

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	Repeat
		531-535, 541 ~ 550, also within 566-572.5: grey, spotted with lighter beige-tinged medium-grained clasts and complex shape mottlings (possibly porphyritic dioritic tuff). Fine-grained Py in the matrix.	M 6092 M 6093 M 6094 M 6095 M 6096 M 6097 M 6098 M 6099 M 6100 M 6101 M 6102 M 6103 M 6104 M 6105 M 6106 M 6107 M 6108 M 6109 M 6110 M 6111 M 6112 M 6113 M 6114 M 6115 M 6116 M 6117 M 6118 M 6119	466.0 469.5 472.5 477.5 481.0 484.5 488.0 492.0 496.0 499.0 504.0 507.5 511.0 513.5 518.5 522.5 527.0 531.0 535.0 541.0 546.0 550.0 553.0 556.0 561.0 566.0 568.0 572.5 576.5	469.5 472.5 477.5 481.0 484.5 488.0 492.0 496.0 499.0 504.0 507.5 511.0 513.5 518.5 522.5 527.0 531.0 535.0 541.0 546.0 550.0 553.0 556.0 561.0 566.0 568.0 572.5 576.5	3.5 3.0 5.0 3.5 3.5 3.5 4.0 4.0 3.0 5.0 3.5 3.5 2.5 5.0 4.0 4.5 4.0 4.0 6.0 5.0 4.0 3.0 2.0 5.0 5.0 2.0 4.5 4.0	NIL NIL NIL NIL NIL NIL NIL NIL NIL NIL 10 NIL NIL NIL NIL NIL NIL NIL 20 NIL 20 NIL NIL NIL 10 20 NIL NIL NIL	
576.5	~ 637	ARKOSIC ARENITES (Possibly porphyritic dioritic tuffe?) Medium grey, with light grey subangular to subrounded clasts (or deformed plagioclase?) Non-magnetic; weakly altered. Low homogeneous in second half of interval [in- tervals of light colored arenite, and of darker grey (more mafic, with some calcite) portions]. Some quartz & carbonate stringers in last quarter. So attitudes: 55°/9A (610). Minor Py reaching 1% at several places.						

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FROM	TO	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	Au in ppb	Repeat
~637	747.5	ALTERATION ZONE (similar to 382-576.5); tuff bands more abundant in lower third of intersection. So attitude: $\approx 50^\circ$ N (643), $\sim 10^\circ$ (706), 70° (726), $\sim 35^\circ$ (lower contact, 747.5). Average of 1-2% quartz stringers (more at 667-678 & 743-745). Trace to minor fuchsite above 706; fair to locally abundant 706-709, 719-726, 727.5-729, 743-746. Widespread fine-grained Py (approximate-ly 1% Py overall average) somewhat forming light colored portions and stringers method.	M 6120 M 6121 M 6122 M 6123 M 6124 M 6125 M 6126 M 6127 M 6128 M 6129 M 6130 M 6131 M 6132 M 6133 M 6134 M 6135 M 6136 M 6137 M 6138 M 6139 M 6140 M 6141 M 6142 M 6143 M 6144 M 6145 M 6146 M 6147	576.5 594.5 613.0 618.0 623.0 628.0 632.0 637.0 642.0 647.0 652.0 657.0 662.0 667.0 671.0 673.5 678.0 683.0 688.0 693.0 696.5 700.0 705.0 710.0 713.5 718.5 722.0 726.0 729.5	581.5 599.5 618.0 623.0 628.0 632.0 637.0 642.0 647.0 652.0 657.0 662.0 667.0 671.0 673.5 678.0 683.0 688.0 693.0 696.5 700.0 705.0 710.0 713.5 718.5 722.0 726.0 729.5	5.0 5.0 5.0 5.0 5.0 4.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 4.0 2.5 4.5 5.0 5.0 5.0 3.5 3.5 5.0 5.0 3.5 5.0 3.5 4.0 3.5	NIL 10 NIL 30 NIL NIL NIL 50 30 NIL NIL NIL 30 30 30 30 30 30 30 30 30 30 30 30 NIL NIL NIL NIL NIL	
747.5	825	MAFIC TO ULTRAMAFIC VOLCANIC ROCKS (might include several tuffaceous portions) Generally medium to blocky grey, fine to medium-grained. Bleached pale greenish grey from 771 to 776.5 (extending into nearby rock). Practically non-magnetic; chloritoid. $\sim 1\%$ millimetric calcitic white stringers; a little more 792-803 (with some quartz) and more 822. Some quartz at 762.5 & 772. Occasional minor Py (mostly at upper end). So attitude: 45° (788).						10

APPENDIX

B.

AU GEOCHEMISTRY

Diamond Drill Hole no: 613-03

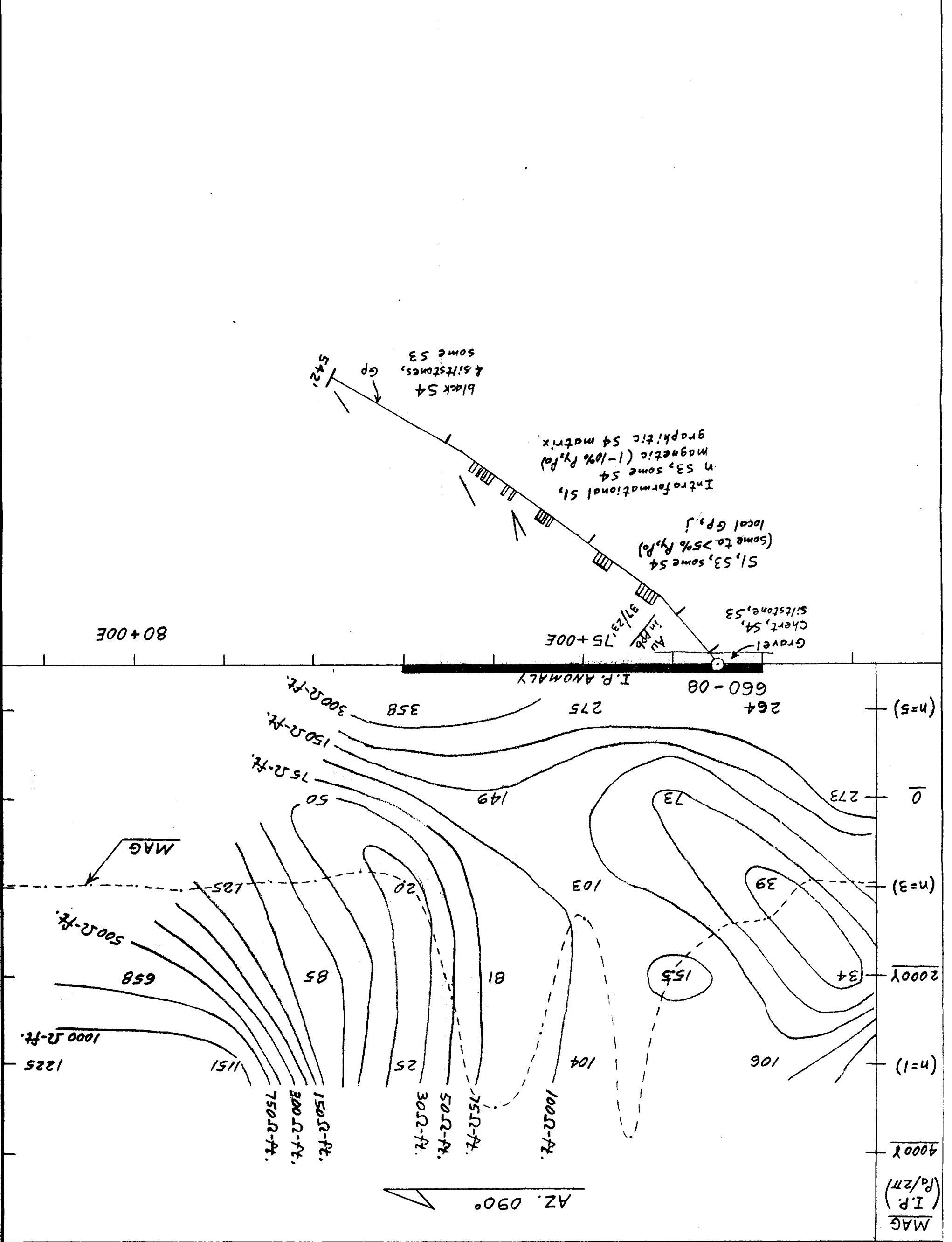
Township: of HEARST

Log Summary		Geochemistry Sample					
Location (ft.) From To		Rock type	Sample no.	Location (ft.) From To		Au (ppb)	Remarks
			613-03-01	12.0	50.5	3	
			-02	50.5	69.5	5	less next one
				62.5	65.0		quartz vein (assayed)
			-03	69.5	130.0	1	
			-04	130.0	210.0	2	
			-05	210.0	261.0	<1	
				261.0	264.0		quartz vein (assayed)
			-06	264.0	310.0	1	
			-07	310.0	368.0	2	
			-08	368.0	382.0	3	
			-09	382.0	469.5	2	quartz only
			613-03-10	382.0	469.5	1	only fuchsite-rich
			-11	382.0	469.5	4	less 2 above
			-12	469.5	499.0	<1	
			-13	499.0	576.5	<1	quartz only
			-14	499.0	576.5	<1	only fuchsite-rich
			-15	499.0	576.5	2	less 2 above
			-16	576.5	637.0	4	
			-17	637.0	706.0	2	quartz only
			-18	637.0	706.0	3	less above 1
			-19	706.0	747.5	<1	quartz only
			613-03-20	706.0	747.5	4	only fuchsite-rich
			-21	706.0	747.5	2	less 2 above
			-22	747.5	825	2	

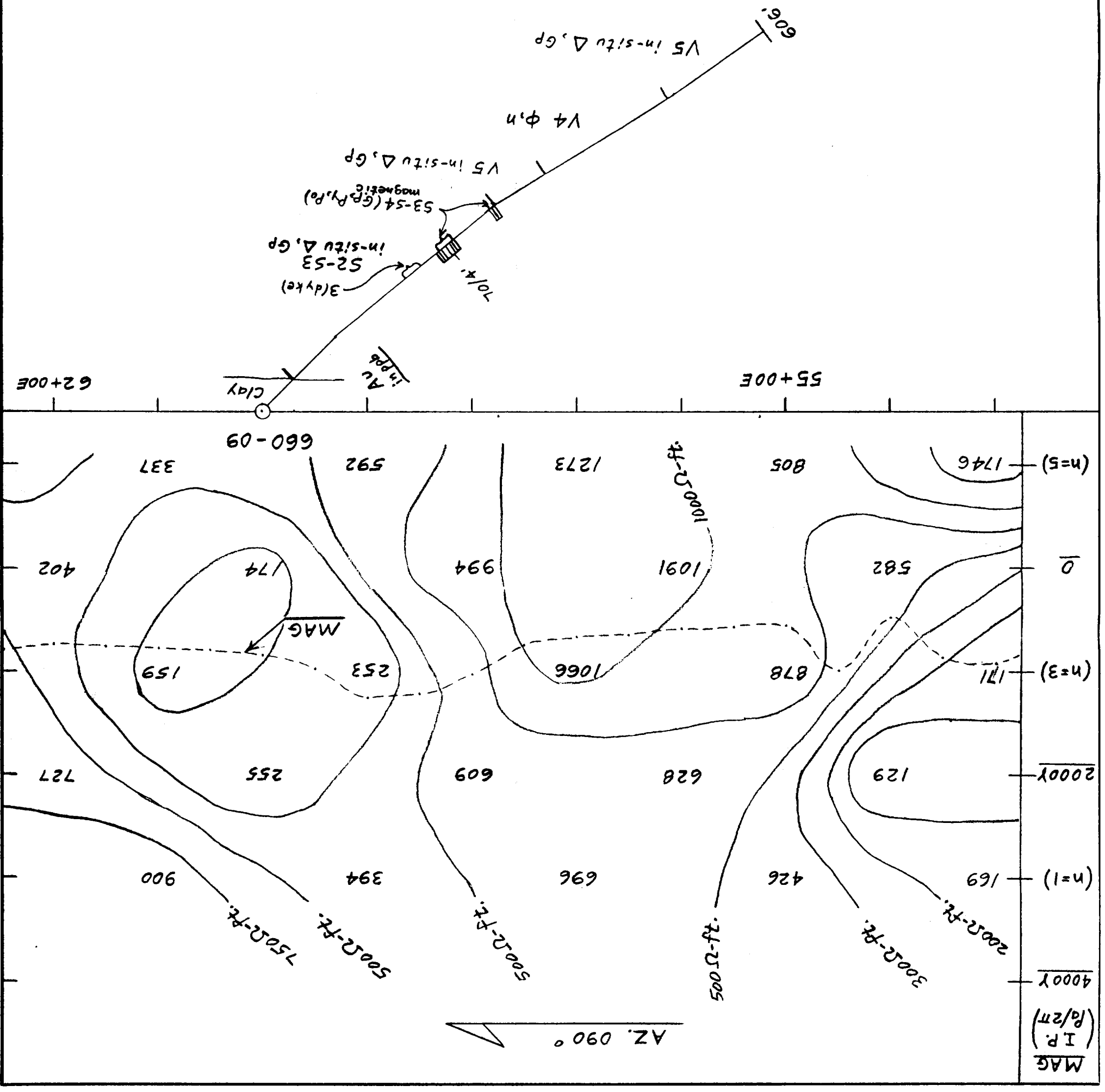
APPENDIX

C

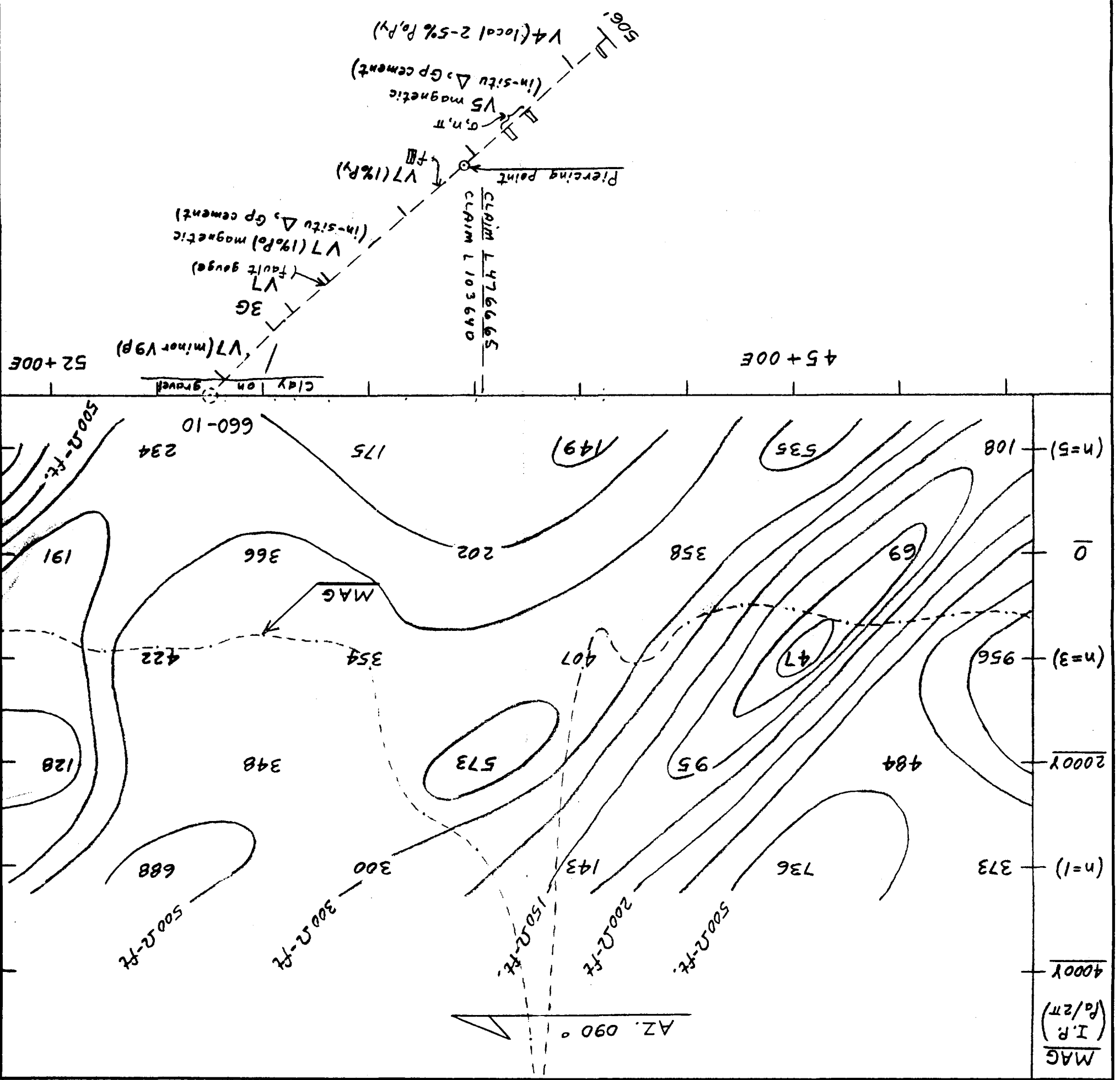
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SCALE 1:1200	DATE 85/11/27
DH 660-08 SECTION 48+005	
FALCONBRIDGE LTD.	



SCALE 1:1200
 LOGGED D. Boucher
 DATE 851127
 TRACED J.A. Carter
 DDH 660-09
 SECTION 48+00 S
 FALCONBRIDGE LTD.



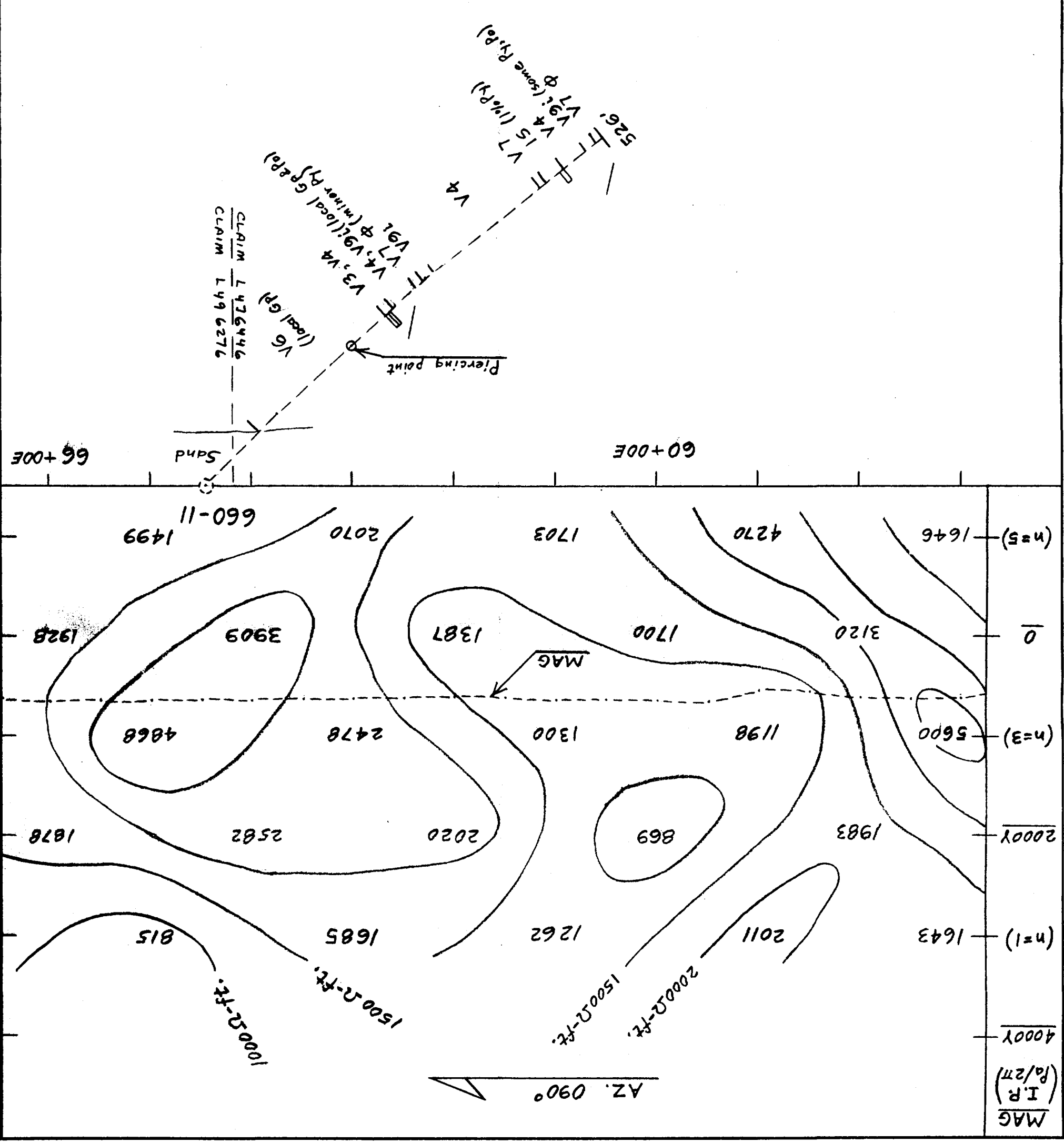
SCALE 1/1200
 LOGGED D. Boucher
 DATE 05/129
 TRACED J.A. Carrier
 FALCONBRIDGE LTD.
 DDH 660-10 pivoted
 unto SECTION 48+005



SCALE 1:1200
 LOGGED D. Boucher
 DATE 05/11/29
 TRACED J.A. Carrière

DDH 660-11 pivoted
 unto SECTION 24+00S

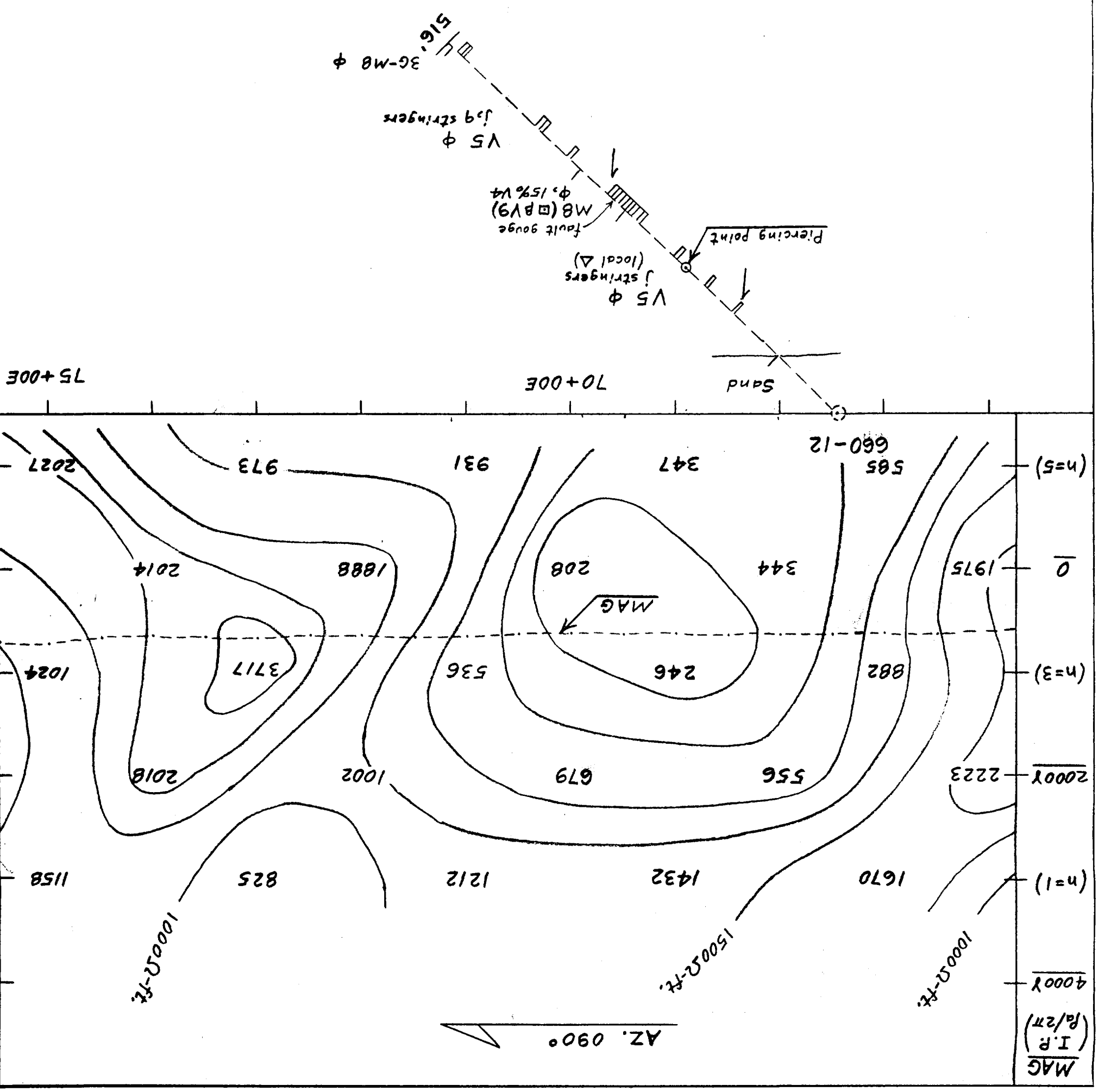
FALCONBRIDGE LTD.



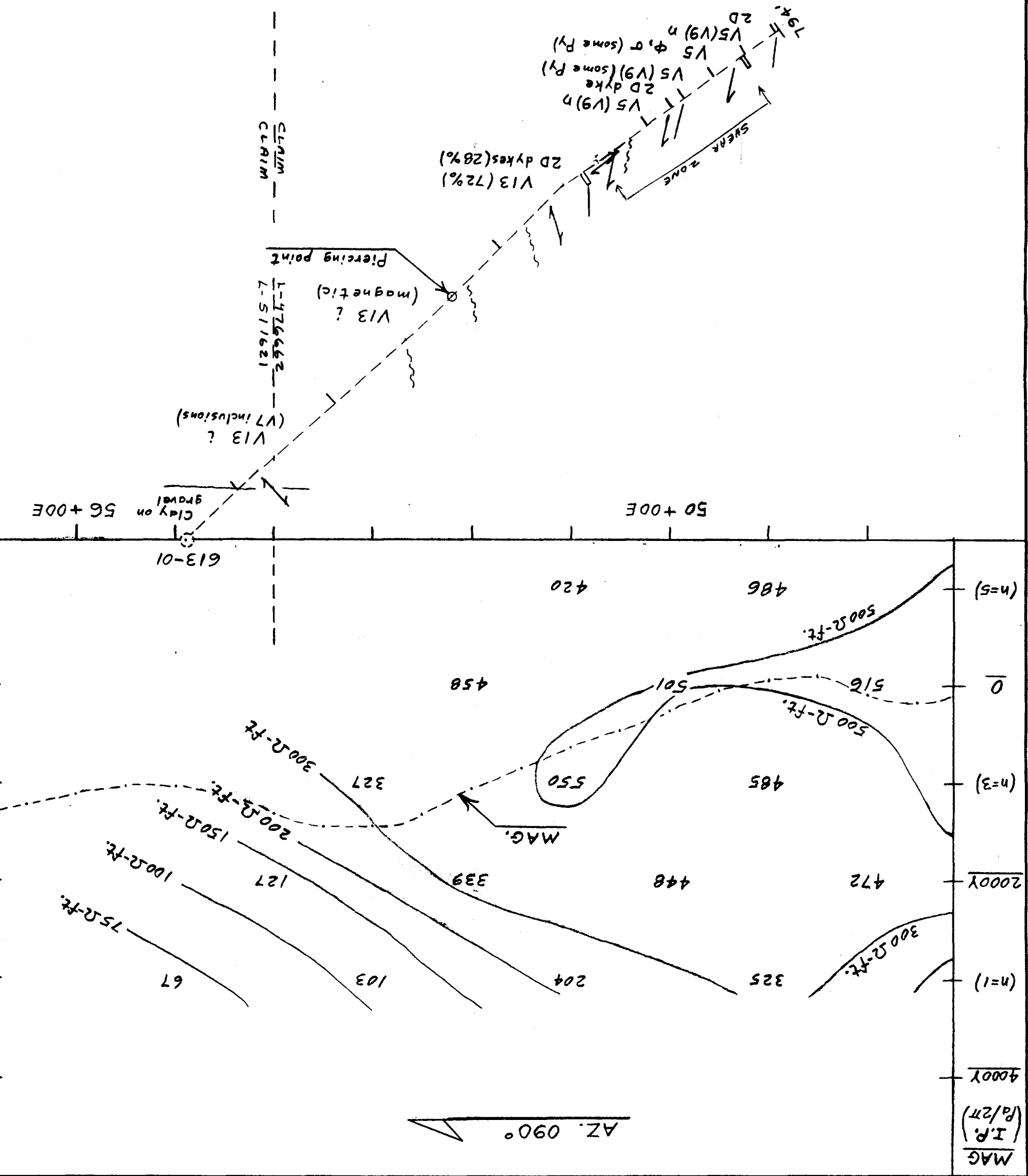
LOGGED J.A. Carriger	SCALE 1/1200
TRACED J.A. Carriger	DATE 05/1/28

FDH 660-12 pivoted
unto SECTION 28+00S

FALCONBRIDGE LTD.



FALCONBRIDGE LTD.
 DDH 613-01 pivoted
 into SECTION B4+005
 LOGGED M. Berubé
 SCALE 1:1200
 DATE 85/1/26
 TRACED J.A. Carrier



#63.4636

OM84-6-P-356

GEO LA LTÉE
PHYSIQUE
LOGIQUE
EXPLORATION – SERVICES

GEOPHYSICAL SURVEYS

PROPERTY OWNED BY

FALCONBRIDGE LIMITED

LARDER PROJECT

HEARST TOWNSHIP

PROVINCE OF ONTARIO

OCTOBER 1985

CLERMONT LAVOIE, Ph.D.

GEOPHYSICAL WORK

During the period of August 1 to August 30, 1985, a V.L.F. electromagnetic survey (station NAA and NSS) and a magnetic survey were done on the property.

A total of 49.9 miles of lines was surveyed with the V.L.F. electromagnetic method using stations NAA and NSS. The readings were taken at 100 foot intervals. The instrument used was an IGS-2 from Scintrex.

A total field and vertical gradient magnetic survey (51.4 miles) was also done at 50 foot intervals. This survey was done using a proton magnetometer IGS-2 from Scintrex having a sensitivity of 0.1 gamma. The usual diurnal and datum corrections were made using an automatic base station recorder (MP-3) from Scintrex.

DISCUSSION ON THE METHODS

The V.L.F. electromagnetic method is normally used in non-conductive overburden areas to obtain information on the geological structure, reflected by conductive zones such as faults, shear zones and naturally, massive sulphides.

INTRODUCTION

A V.L.F. electromagnetic survey (stations NAA and NSS) along with a magnetic survey were carried out over a property owned by Falconbridge Limited in Hearst township, province of Ontario. These surveys were an extension of the previous surveys done in November 1984. We are referring you to our report of November 1984.

The V.L.F. electromagnetic survey was done to locate conductive zones which may contain economic mineralization. The magnetic survey was done to help the interpretation of the V.L.F. anomalies and to define the general structure.

PROPERTY, LOCATION AND ACCESS

The property is located approximately 10 km South of Larder Lake, in Hearst township, province of Ontario and includes two groups of option's claims. A list of these groups of claims are given at the end of this report.

Access to the property is easy from Larder Lake by using highway # 624 which crosses the northern part of the property. Also some bush roads surround the property.

The conductive zones are picked up with varying amplitude readings depending on the following parameters: overburden conductivity, conductivity of the zone, depth, angle with the transmitter station and the geometry of the conductive zone.

Normally, a V.L.F. anomaly is not a diamond drill target on its own. It has to be tested with other geophysical methods, especially in an conductive overburden area.

During a survey, it is a good policy to use two (2) different stations perpendicular to one another. This can allow the detection of more conductors. However, due to the electromagnetic fields line distortion present at the edge of a conductor, a false short conductor may be obtained with another perpendicular transmitter station.

Concentrations of minerals having magnetic susceptibility will give rise to variations in the earth's magnetic fields. Systematic observation of the earth's total magnetic field has allowed us to contour the data outlining magnetic patterns or anomalies.

Minerals having strong magnetic susceptibility are magnetite and pyrrhotite and are usually, but not necessarily, associated as primary or accessory minerals in massive sulphide deposits; thus, coincident magnetic and electromagnetic anomalies could be important, but are not necessarily required.

DESCRIPTION AND INTERPRETATION

The V.L.F. electromagnetic survey done on this property has allowed us to detect 58 new anomalies with the NSS station and 3 new anomalies with the NAA station with respect to our previous survey done in November 1984. We are referring you to our report of November 1984.

Each new anomaly is described in tabular form and is provided with the following parameters:

- location of the anomaly: line, station;
- intensity of the peak to peak, which reflects the validity of the anomaly or its signals with respect to the noise ratio since the noise is approximately 1 to 2%;
- length of the anomaly;
- magnetic association.

(refer to tabular forms at the end of this report).

Among the 58 V.L.F. anomalies found with the NSS station, 23 of these were classified in second priority. Many of these anomalies were also detected with the NAA station, but were not renamed. With the NAA station, 3 anomalies were detected only with this station and they were classified in second priority.

Magnetic survey

The total field magnetic data was contoured at 0,200,500,750,1000,1500,2000 and 3000 gammas. The total field and vertical gradient magnetic data were also profiled.

Taking into account the small scale of the map and the small interval between the lines, we have used the exponential profile method in order to see the small anomalies. The strong anomalies were attenuated.

The magnetic contours reveal some North-West and North-South magnetic trends. With the help of the geological information, these magnetic data should be interpreted to define the geological formations and the structure.

CONCLUSION AND RECOMMENDATIONS

The V.L.F. electromagnetic survey has allowed us to detect 58 new anomalies. The second priority anomalies should be tested with an I.P. survey before recommending to drill them. With the help of the geological information, the magnetic survey should be interpreted. Using all this information, it should then be easier to prepare a diamond drilling program.

Respectfully submitted,


Clermont Lavoie, Ph.D.

DESCRIPTION OF V.L.F. ANOMALIES

STATION(S): N S S

PROJECT: PN-660

TOWNSHIP: Hearst

Anomaly no.	Line	Station intersection	Amplitude	Length ()	Magnetic association	Notes	Priority
S-11	44 S	80+75 E	23	300	-	Possible overburden. Better define on L. 44 S	3
S-12	54 S	78+50 E	18	300	-	Poor cross-over	4
S-13	48 S	76+75 E	22	300	Possible contact.	Reversed ano. with NAA. Poor cross-over.	3
S-14	52 S	73+15 E	8	300	-	Poor cross-over	4
S-15	48 S	69+05 E	54	1400	-	Well define. Also detects with NAA.	2
S-16	48 S	65+75 E	27	1000	-	Well define on L. 48 S. Also detects with NAA.	2
S-17	52 S	63+75 E	11	700	-	Poor cross-over. Also detects with NAA.	4
S-18	32 S	72+45 E	12	1000	Possible contact.	Weak. Possible Extension of Ano. No. 15	3
S-19	30 S	66+35 E	13	400	-	Weak	4
S-20	24 S	64+75 E	21	1000	-	Weak. Possible North-West fracture.	3
S-21	42 S	54+25 E	14	1300	-	Poor cross-over	4
S-22	54 S	54+45 E	>30	600	200 Y on L. 48S	Wide cross-over. Possible overburden	2
S-23	54 S	52+75 E	>36	400	-	Also detects with Naa. Poor cross-over.	4
S-24	24 S	51+15 E	>40	1000	Possible contact.	Also detects with Naa. Well define.	2
S-25	30 S	45+60 E	47	400	Possible contact.	Well define	2

DESCRIPTION OF V.L.F. ANOMALIES

PROJECT: PI-660

STATION(S): N S S

TOWNSHIP: Hearst

Ano- maly no.	Line	Station inter- section	Ampli- tude	Length ()	Magnetic association	Notes	Priority
S-26	34 S	41+10 E	44	800	-	Wide cross-over. Also detects with NAA. Possible overburden.	3
S-27	48 S	42+30 E	15	-	300 γ possible	Poor cross-over. Also detects with NAA. May be real.	2
S-28	44 S	29+80 E	>90	1400	-	Poor cross-over. Also detects with NAA. Possible overburden	3
S-29	26 S	34+60 E	69	800	Possible contact.	Better define on L. 26 S. Also detects in part with NAA.	2
S-30	36 S	25+30 E	56	3500	-	Wide cross-over. Also detects in part with NAA. Possible overburden.	2
S-31	42 S	23+80 E	>67	900	200 γ possible on L. 38 S.	Also detects with NAA. Poor cross-over	3
S-32	48 S	19+65 E	34	900	-	Also detects with NAA. Better define on L. 48 S.	2
S-33	24 S	20+80 E	12	600	-	Poor cross-over	4
S-34	32 S	17+20 E	20	500	200 γ possible on L. 34 S	Poor cross-over	4
S-35	42 S	13+70 E	29	700	-	Poor cross-over. Possible extension of Ano. 34. Possible overburden effect.	3
S-36	42 S	10+50 E	62	2400	-	Also detects in part with NAA. Possible overburden effect.	3
S-37	26 S	15+00 E	22	400	-	Weak. Possible extension of ano. 36.	2
S-38	20 S	16+00 E	26	400	-	Poor cross-over.	4
S-39	28 S	10+80 E	86	2600	-	Poor cross-over. Follow a creek. Possible overburden effect.	3
S-40	54 S	1+05 E	29	400	Possible contact.	Poor cross-over.	4

DESCRIPTION OF V.L.F. ANOMALIES

STATION(S): N S S

PROJECT: PN-660

TOWNSHIP: Hearst

Anomaly no.	Line	Station inter-section	Amplitude	Length ()	Magnetic association	Notes	Priority
S-41	52 S	2+80 W	≈ 40	400	-	Poor cross-over. Limit of survey.	4
S-42	42 S	1+00 W	≈ 40	400	Possible contact.	Poor cross-over. Limit of survey.	4
S-43	22 S	6+70 E	72	600	-	Also detects in part with NAA. Better define on L. 20 and 22 S.	2
S-44	28 S	2+80 E	26	800	-	Poor cross-over. Also detects with NAA.	3
S-45	26 S	1+60 E	61	-	50% possible.	Well define. One line only.	2
S-46	68 S	77+50 E	64	1900	-	Well define. Also detects with NAA.	2
S-47	60 S	75+50 E	17	1000	-	Wide. May be overburden.	3
S-48	64 S	72+70 E	60	400	100% possible on L. 64 S	Poor cross-over. Also detects with NAA.	3
S-49	64 S	67+00 E	21	3800	Possible contact	Poor cross-over. May be overburden effect.	3
S-50	58 S	64+50 E	> 60	700	-	Poor cross-over. Also detects with NAA.	3
S-51	56 S	55+00 E	101	1000	-	Better define on L. 56 S. Also detects with NAA.	3
S-52	64 S	56+20 E	24	800	Possible contact	Poor cross-over. Also detects with NAA.	3
S-53	60 S	52+30 E	> 100	400	-	Poor cross-over	3
S-54	88 S	49+50 S	43	1000	-	Poor cross-over	3
S-55	74 S	46+60 E	16	-	-	Poor cross-over. Also detects with NAA.	3

DESCRIPTION OF V.L.F. ANOMALIES

PROJECT: PN- 660

STATION(S): N S S

TOWNSHIP: Hearst

Anomaly no.	Line	Station intersection	Amplitude	Length ()	Magnetic association	Notes
S-56	64 S	43+80 E	32	500	-	Better define on L. 64 S.
S-57	60 S	39+70 E	14	700	-	Poor cross-over. Also detects with NAA.
S-58	64 S	36+20 E	13	300	-	Poor cross-over
S-59	72 S	41+90 E	66	2400	-	Well define. Also detects with NAA.
S-60	64 S	30+40 E	17	800	3000 gammas on L. 62 S	Poor cross-over. Also detects with NAA.
S-61	62 S	25+30 E	83	3000	Variable	Well define. Also detects with NAA.
S-62	92 S	39+40 E	> 15	700	-	Better define on L. 94 S.
S-63	92 S	37+80 E	40	400	> 500 γ	Poor cross-over. Also detects with NAA.
S-64	92 S	34+50 E	35	600	Possible contact.	Poor cross-over. Also detects with NAA. May be disturbed by ano. 63
S-65	90 S	26+50 E	11	500	-	Poor cross-over. Creek
S-66	88 S	23+70 E	36	800	-	Poor cross-over. Also detects with NAA. Limit of survey
S-67	64 S	23+40 E	21	400	100 γ possible	Poor cross-over.
S-68	62 S	17+50 E	26	800	-	Poor cross-over. Also detects with NAA.
S-69	68 S	16+70 E	62	1400	-	Better define on L. 68 S. Also detects with NAA.

LIST OF CLAIMS

C.F.C. OPTION PN-660

MANY METAL OPTION PN-613

103640
319452
319453
420721
429935
429936
447513
477514
476446
476447
476601
476664
476665
476666
477384 to 477389
495049
496276

411210
429150
429934
476661
476662
495017
495018
496570
511621

The V.L.F. and the magnetic survey have covered in part each of these groups of options's claims.

GEO **LA LTÉE**
PHYSIQUE
LOGIQUE
EXPLORATION — SERVICES

STATEMENT FOR ASSESSMENT WORK

I, the undersigned, Clermont Lavoie,
for Geola Limity, certify to the following.

During the period of August 1 to August
30, 1985, a V.L.F. electromagnetic survey (49.9
miles) using the NAA and NSS stations was carried
out over a property owned by Falconbridge Ltd.
A magnetic survey (51.4 miles) was also done on
the property.


This property is located approximately
10 km South of Larder Lake, in Hearst township, pro-
vince of Onrario and includes two groups of option's
claims, which claims are given at the end of this
report.

V.L.F. Instrument: IGS-2 from Scintrex
Precision: 0.1 gamma.

Mag. Instrument: IGS-2 from Scintrex
Precision: 0.1 gamma.
MP-3 (base station) from
Scintrex.

Operator: (27 days) M. Jean Paul Cloutier
R.R. # 1
D'Alembert P. Q.
J9X 5A3

Respectueusement soumis,


Clermont Lavoie, Ph.D.

GEO LA LTÉE
PHYSIQUE
LOGIQUE
EXPLORATION — SERVICES

C E R T I F I C A T E

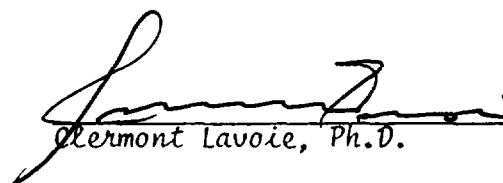
1. *I, the undersigned, Clermont Lavoie, residing at 1148 Bérard Avenue, Val d'Or, Quebec, graduated with a B.Sc.A. degree in Geology from Ecole Polytechnique in 1965. I have obtained a M.Sc.A degree in Geophysics from Ecole Polytechnique in 1968, and received a Ph.D. in Geophysics from McGill University in 1972.*

2. *I am a member of the Order of Engineers of Quebec, the Canadian Institute of Mining and Metallurgy, the Quebec Prospectors Association and the Society of Exploration Geophysicists.*

3. *I do not hold, nor do I expect to receive, an interest of any kind in these claims held by FALCONBRIDGE LIMITED nor in any other mining claims they may have.*

4. *The interpretation and recommendations described in this report are based partly on a personal and technical experience in this district of Quebec.*

Signed in Val d'Or, this eight (8th) day of the month of October, one thousand nine hundred and eighty-five (1985).


Clermont Lavoie, Ph.D.