# ARIS SUMMARY SHEET

District Geologist, Kamloops

Off Confidential: 92.08.16

ASSESSMENT REPORT 21583

MINING DIVISION: Clinton

PROPERTY:

Canim

LOCATION:

LAT 51 57 00 LONG 120 54 00

UTM 10 5757342 644323

NTS 092P15W

CAMP:

036 Cariboo - Quesnel Belt

CLAIM(S):

Horse, Canim 2-4

OPERATOR(S):

Canevex Res.

AUTHOR(S):

Garratt, G.L.

REPORT YEAR:

1991, 21 Pages

COMMODITIES

SEARCHED FOR: Copper, Gold, Platinum, Palladium

**KEYWORDS:** 

Mafic intrusive complex, Monzonites, Granodiorites, Diorites, Triassic

Nicola Group, Volcanics, Quartz-carbonate veins, Chalcopyrite

WORK

DONE:

Geophysical

IPOL 10.2 km

Map(s) - 4; Scale(s) - 1:5000

MAGG 9.9 km

Map(s) - 3; Scale(s) - 1:5000

RÈLÁTED

REPORTS: MINFILE:

17672,19322 092P 132 Geophysical Report for the Canim 1 - 4 and Horse Claims

for

Canevex Resources Ltd.

by

Mincord Exploration Consultants Ltd.

SUB-RECORDER RECEIVED

AUG 16 1991

M.R. # \$\_\_\_\_\_\$\_\_\_ VANCOUVER, B.C.

Clinton Mining Division

Latitude: 51 degrees 51 minutes North Longitude: 120 degrees 53 minutes West

NTS Maps: 92P/15

G. L. GARRATT

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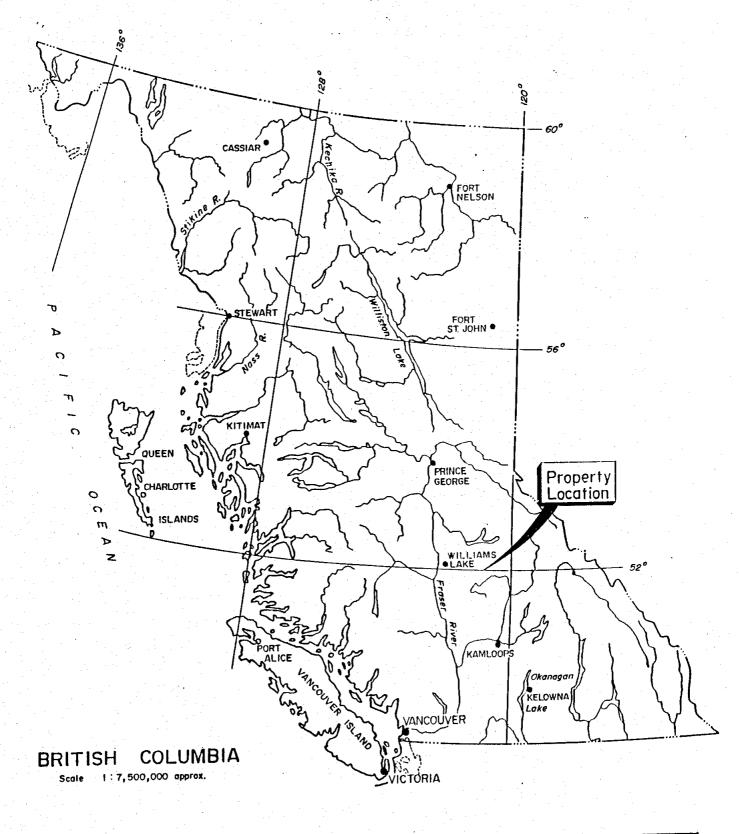
G.L. Garratt, P.Geo. August, 1991

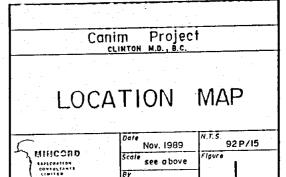
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I.P. Pseudosections (two) (1:5000)

# GEOLOGICAL BRANCH ASSESSMENT REPORT

21,53





# Introduction

From June 20 to June 26, 1991 an induced polarization and resistivity survey, as well as a magnetometer survey were undertaken on the Canim property. Approximately 10.2 line-kilometers of I.P. and 9.9 line-kilometers of magnetometer surveying were completed. The program was supervised by Mincord Exploration Consultants Ltd. and the geophysical surveying was carried out by Scott Geophysics Ltd., on behalf of Canevex Resources Ltd. of Vancouver, BC.

The program was designed as a preliminary geophysical test across geological and soil geochemical features that were outlined in a 1989 program (Buskas, 1989). Several moderate to strong chargeability anomalies were outlined in this program of which at least two are considered significant. These two chargeability highs display a distinct linear character with responses locally exceeding 40 millivolts/volt; these anomalies are suspected to represent highly conductive sulphide bearing zones. There is no direct surface expression of possible sources of the anomalies.

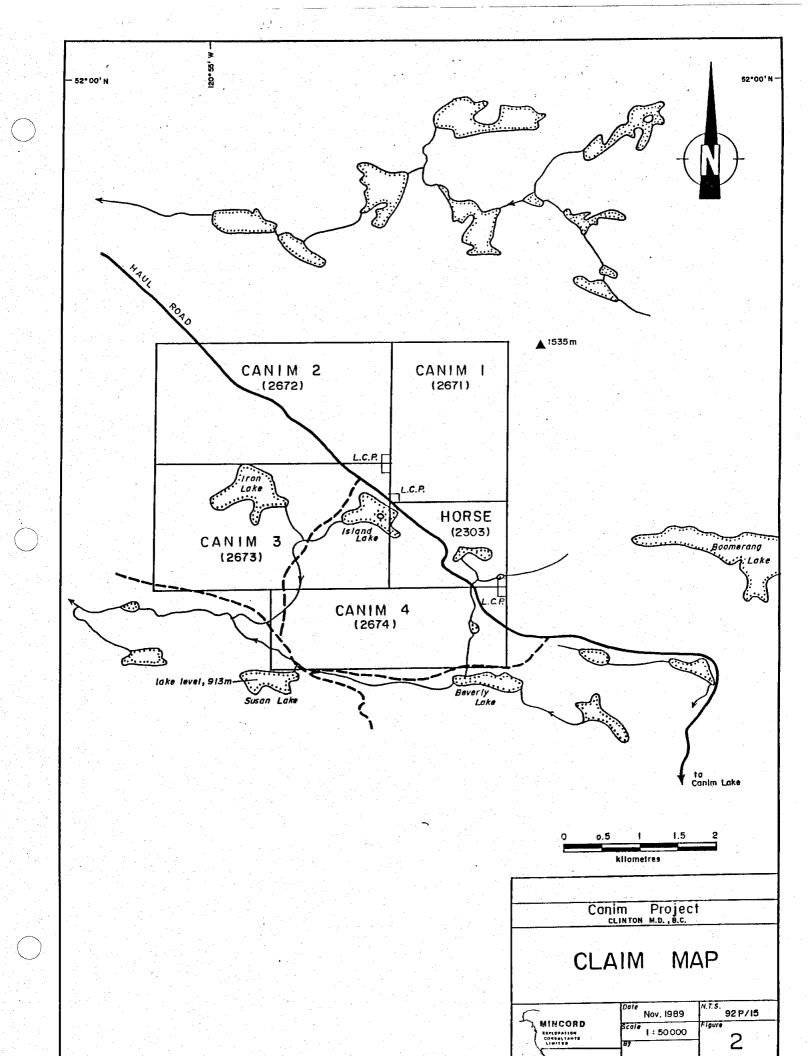
# Location, Access and Physiography

The Canim property is located about ten kilometers north of Eagle Creek and forty kilometers northeast of 100 Mile House in the Clinton Mining Division of British Columbia. It is situated at 51 degrees 57 minutes north latitude and 120 degrees 53 minutes west longitude on NTS map sheet 92P/15 (See Figures 1 and 2).

Access is by a paved road from 100 Mile House forty-seven kilometers to Eagle Creek. From Eagle Creek an all season gravel road, the Hendrix Lake road, is followed for six kilometers and a left turn is made onto the Lang Lake Forest Access Road. The Lang Lake road, a seasonal two wheel drive gravel road, is followed for nine kilometers to the property. 100 Mile House is a regional centre for logging, agriculture and government and provides good logistical support.

The property lies in a gentle rolling terrain which rises to the northeast, elevations varying from 975 meters (3200 feet) to 1435 meters (4700 feet). Part of the property is covered by swampy areas and lakes. A thin veneer of glacial drift is present with a maximum overburden depth, as defined by drilling, of fifteen meters, usually less than nine meters.

Forest cover can be dense, particularly where coniferous species were logged off twenty or more years ago and regrowth of deciduous trees has occurred. Forest in the area are mixed and include fir, pine, spruce and cedar any of which may be dominant depending upon the local environment. Deciduous trees are also present and include cottonwoods, birch and alder. Recently, parts of the claim have been clear cut logged and provide good exposure.



# Ownership

Claim	<u>Units</u>	Record No.	Record date
Horse	6	2303	June 18, 1987
Canim 1	12	2671	August 18, 1988
Canim 2	18	2672	August 18, 1988
Canim 3	18	2673	August 18, 1988
Canim 4	12	2674	August 18, 1988

Total Claims: 5 Total Units: 66

The Canim property consists of the claims listed above. These claims are held by Canevex Resources Ltd.

# History

The earliest work completed in the vicinity of the Canim Property is evidenced by claim posts dated march 1969 and reported by Wahl (1976). No records relevant to this early work have been found.

In October 1972 Pickands Mather & Co. staked 123 units comprising the Sheri claims, which included most of the Canim Property. From 1972 to 1974 Pickands Mather & Co. conducted a mineral exploration program on these claims to assess their copper porphyry potential. Their work included 122.0 kilometers (75.8 miles) of line cutting, soil geochemistry, ground magnetometer survey, induced polarization survey, mercury vapor survey, geological mapping and sampling, and eight BQ holes of diamond drilling for a total of 694 meters (2276 feet). Less than 10% of the core was split and assayed at the time of drilling and presently it remains on the property. Their work defined an area east of Island Lake underlain by a strong IP anomaly and copper soil anomaly.

Pickands Mather & Co. closed their Canadian exploration offices in 1974 and H.J. Wahl gained ownership of the claims. He retained a core group of six claims, which lie within the Canim Property. In 1976 Wahl undertook an exploration program on these claims including prospecting, linecutting, geological mapping, soil sampling and trenching. Wahl concluded at that time that the potential of the property was at depth. The Sheri claims were subsequently allowed to lapse.

In April and May, 1983 J.W. Morton staked the Ironhorse 1 and 2 claims to cover the copper anomalies found by Pickands Mather & Co. That same year, Morton completed a 3.7 kilometer ground electromagnetic survey and limited rock chip sampling.

In November, 1984, R.M. Durfeld examined the property for Reliant Resources, who gained ownership of the Ironhorse clams. Durfeld proposed a two stage exploration program which apparently was not followed up. The Ironhorse 1 claim was allowed to lapse and the Ironhorse 3 claim was staked to cover the same ground.

In 1985, J.W. Morton relogged and sampled core originating from the 1974 Pickands Mather & Co. drilling. The core was analyzed using multi-element methods with some anomalous values for gold and platinum being recorded.

The Ironhorse claims lapsed in 1987 and the Horse claim was staked in june of that year by G.L. Garratt, covering the original area of interest. The Horse claim was subsequently optioned to Relay Creek Resources who staked additional claims i the area. Relay Creek Resources (now AABBAX International Financial Corporation) allowed the claims to lapse in 1988.

June 1988, Canevex Resources Ltd. completed a soil and rock geochemistry program. Rock samples included both surface samples and core samples from the 1974 drill program. It was concluded this work that an operational scale soil survey program was warranted to document the extent of gold and platinum anomalies In August 1988, G.L. Garratt for Canevex Resources in the area. Ltd., staked the Canim 1-4 claims which, along with the claims were optioned to Cepeda Minerals Inc. Later that month, G.R. Peatfield examined the property on behalf of Cepeda Minerals assess the potential of the property. Peatfield collected several surface rock and core samples. One surface sample from a quartz/carbonate alteration zone contained 993 ppb Peatfield proposed a three sage exploration program for the property to assess its copper, gold, platinum palladium potential.

In 1989, Cepeda Minerals Inc. carried out a program of geological mapping and soil , rock and core geochemical sampling over much This work defined the of the southern half of the property. character of a zoned mafic intrusive complex that is flanked by monzonite and granodiorite intrusions, all of which appear to be Diorite stocks intrusive into Triassic Nicola Group volcanics. and dykes were also mapped. The results of the geochemical sampling of the 1989 program outlined low-threshold copper (>50 nickel (> 50 ppm), platinum (> 20 ppb), palladium (> 20 ppb) and gold (> 10 ppb) anomalies. These anomalies were observed to be somewhat coincident but did not display definitive Re-sampling of old core during this program resulted in anomalous but spotty values in platinum, palladium, gold that were generally associated with shearing or the minor development of quartz-carbonate veining. From the combination of broadly anomalous soils and altered bedrock it was concluded that geophysical surveying would be required to define exploration targets in the largely overburden covered terrain.

# Geophysical Survey - Summary and Discussion of Results

The technical aspects of the survey are outlined in a report by A. Scott, located in appendix 3. Three grid lines were selected to be surveyed and these were: Line 50+00E/36+00N to 76+25N; Line 52+00E/35+50N to 55+50N and 62+25N to 75+75N; Line 54+00E/44+25N to 53+00N and 61+75N to 75+75N. Approximately 10.2

line kilometers of pole-dipole array induced polarization survey utilizing an "a" spacing of 25 meters and five separations (n=1 to 5), were completed. Magnetometer readings were taken at 12.5 meter stations along 9.9 line kilometers of grid.

The survey resulted in outlining several moderate to strong chargeability zones, two of which are considered significant in size and character. The first, on lines 50, 52 and 54 E at 45+00N, displays a northeasterly trend and measures approximately 200 by 600 meters. This anomaly is open to the northeast and is gaining strength in this direction. A drainage to the northeast of this anomaly shows a parallel "along strike" trend which might be interpreted to imply a structural control on the source of the chargeability anomaly.

The second strong chargeability anomaly lies at the northwestern end of the survey area, crossing all three lines at approximately 75+00N. The apparent trend of this zone is easterly although the anomaly is not closed off to the northwest so that the full geometry of the zone is not known. The zone measures approximately 500 meters by 100 to 200 meters and remains open to the east, west and northwest.

Several other moderate chargeability zones cross lines 52+00E and 54+00E and would require further surveying to the northeast to define their extent and geometry. There are no known outcrop expressions of the two stronger anomalies that would account for their presence although quartz-carbonate veining, disseminated pyrite and propylitic alteration have been observed in their vicinity.

There does not appear to be a direct relationship between the magnetics and the chargeability anomalies. Some chargeability highs correspond with portions of magnetic highs while others are situated over low magnetic responses. Resistivity values also display a lack of direct correlation to chargeability although without field follow-up (trenching, drilling) conclusions in this regard are premature.

Zones of massive magnetite are known to occur in the area (Buskas, 1989) but are not believed to source the strong chargeability anomalies. The strength and linear character of the chargeability anomalies, combined with the regional presence of quartz-carbonate-sulphide veining, broad propylitic alteration and disseminated sulphides leads to the speculation that the geophysical anomalies are sourced by structurally controlled high volume sulphide zones. Further I.P. Surveying, backhoe trenching and core drilling will be required to fully delineate and test these zones.

APPENDIX 1
STATEMENT OF QUALIFICATIONS

# Statement of Qualifications

- I, Glen L. Garratt, of 110 325 Howe Street, in the City of Vancouver, British Columbia do hereby state that:
- 1. I am a practising geologist and have been since 1973 after completing the requirements for a B.Sc. (Geology) at the University of British Columbia.
- 2. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of British Columbia and a Fellow of the Geological Association of Canada.
- 3. The work reported herein was carried out under my supervision; the conclusions and discussions of the data are my own.
- 4. I consent to the use of this report by Canevex Resources Ltd. to fulfill the requirements of regulatory agencies. Excerpts or quotations or summaries from this report may only be used with my consent.

G. L. Garratt, P. GOREN F.G.A.C.

PROVINCE
OF

L. GARRATT
BRITISH
COLUMBIA

Dated at Vancouver, British Columbia, this 15th day of August, 1991.

# APPENDIX 2

STATEMENT OF EXPENDITURES

# Appendix 2: Statement of Expenditures

Personnel: A. Buskas	3 days @ \$325/day	\$ 975.00
Truck Rental:	3 days @ \$60/day	180.00
Travel Expenses:		143.82
Field Equipment:		35.46
Geophysical Survey:	(10.2 km IP; 9.9 km Mag)	12,083.17
Miscellaneous Charges:		111.59
TOTAL		\$13,529.09

APPENDIX 3

GEOPHYSICAL SURVEY REPORT

ВУ

SCOTT GEOPHYSICS

# LOGISTICAL REPORT INDUCED POLARIZATION AND MAGNETOMETER SURVEYS

# CANIM LAKE PROPERTY

CANIM LAKE AREA, BRITISH COLUMBIA

on behalf of

CANEVEX RESOURCES LITD. 110 - 325 Howe Street Vancouver, B.C. V6C 1Z7

Field work completed: June 20 to 26, 1991

by

Alan Scott, Geophysicist SCOTT GEOPHYSICS LTD. 4013 West 14th Avenue Vancouver, B.C. V6R 2X3

July 10, 1991

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	Appendices	
Dro	duction Reports (rea	r of report)

## 1. INTRODUCTION

Induced polarization and magnetometer surveys were conducted over portions of the Canim Lake Project, Canim Lake Area, British Columbia, within the period June 20 to 26, 1991. The work was performed by Scott Geophysics Ltd. on behalf of Canevex Resources Ltd.

The pole dipole electrode array was used on the induced polarization survey, with readings taken at an "a" spacing of 25 meters and at "n" separations of 1 to 5. The current electrode was located to the south of the potential electrodes on all survey lines.

Magnetometer readings were taken at 12.5 meter intervals. It was occasionally not possible to read the magnetometer owing to very steep magnetic field gradients.

This report describes the instrumentation and procedures, and presents the results of the surveys.

## 2. LOCATION AND ACCESS

The Canim Lake Property is located in the Canim Lake Area, B.C. Access to the survey area is via secondary roads from the 100 Mile House to Eagle Creek Road.

## SURVEY GRID AND SURVEY COVERAGE

A total of 10.2 kilometers of IP survey and 9.9 kilometers of magnetometer survey were completed on the Canim Property. Details of lines surveyed are given in the production reports.

# 4. PERSONNEL

Dominique Berube, geophysicist, was the party chief on the survey. Arvid Buskus, geologist, was the Canevex representative for the survey.

### INSTRUMENTATION

A Scintrex IPR11 time domain, microprocessor based receiver, and a Scintrex IPC7 transmitter were used for the induced polarization survey. Readings were taken using a 2 second alternating square wave. The chargeability for the eighth slice (690 to 1050 milliseconds after shutoff; midpoint at 870 milliseconds) is the value that has been plotted on the accompanying plans and pseudosections.

The survey data was archived, processed, and plotted using a Toshiba T3200 microcomputer running Scintrex Soft II and proprietary software. All chargeability responses were analyzed for their spectral characteristics (cole-cole intrinsic chargeability, time constant, and frequency dependence) using Johnson's curve matching procedure (Scintrex Soft II). In areas of low amplitude chargeability response, the spectral parameters are often relatively poorly defined.

The magnetometer survey was performed with a Scintrex IGS/MP4 magnetometer as the field survey unit, and a Scintrex MP3 magnetometer as the base station. Readings were taken concurrently with the induced polarization survey, during moves between stations. All data was corrected for diurnal variation with reference to the base station, which cycled at a 15 second interval. It was not possible to obtain readings at some locations, owing to very steep magnetic gradients. Any magnetometer work performed in the future on the property should have a fluxgate magnetometer on site, to be used in high magnetic gradient areas.

## RECOMMENDATIONS

A preliminary examination of the results of the induced polarization survey indicates the presence of moderate to strong chargeability highs that merit further investigation.

A detailed interpretation of these results, and correlation to geological and geochemical information, is required before any specific targets could be selected.

Respectfully Submitted,

Alan Scott, Geophysicist

# GEOPHYSICAL SURVEY PRODUCTION REPORT

page 1 of

IPR 11 SURVEY: pole dipole array, a=25 meters, n=1 to 5

Project No.: 9135 Client: Canevex Res. Ltd. Area: Canim Lake, B.C.

Date	Lines surveyed and comments		Production
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# GEOPHYSICAL SURVEY PRODUCTION REPORT

page\_2\_of\_\_

IPR 11 SURVEY: pole dipole array, a=25 meters, n=1 to 5

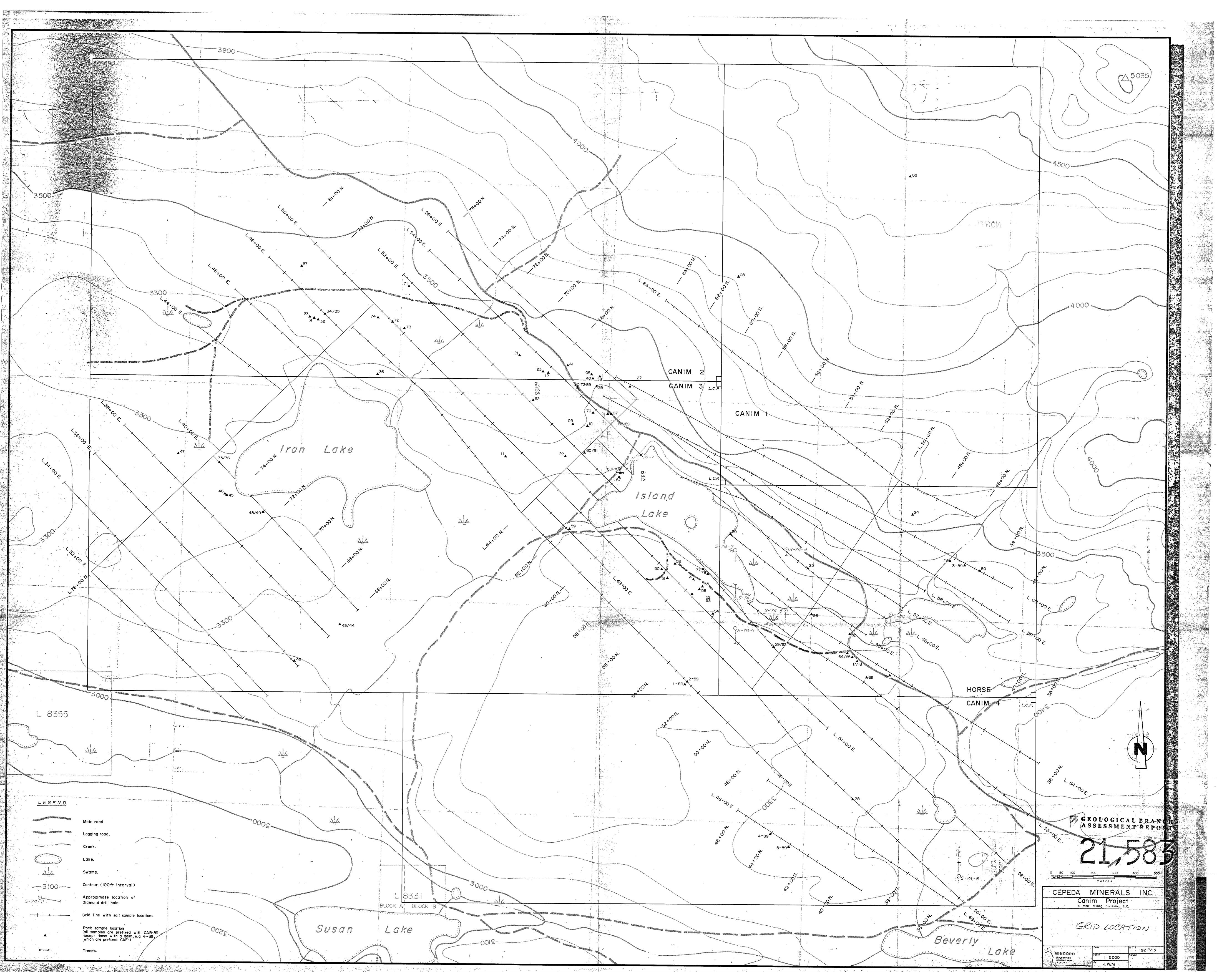
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APPENDIX 4
REFERENCES

# References

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# GEOLOGICAL BRANCH ASSESSMENT REPORT

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GEOLOGICAL BRANCH ASSESSMENT REPORT

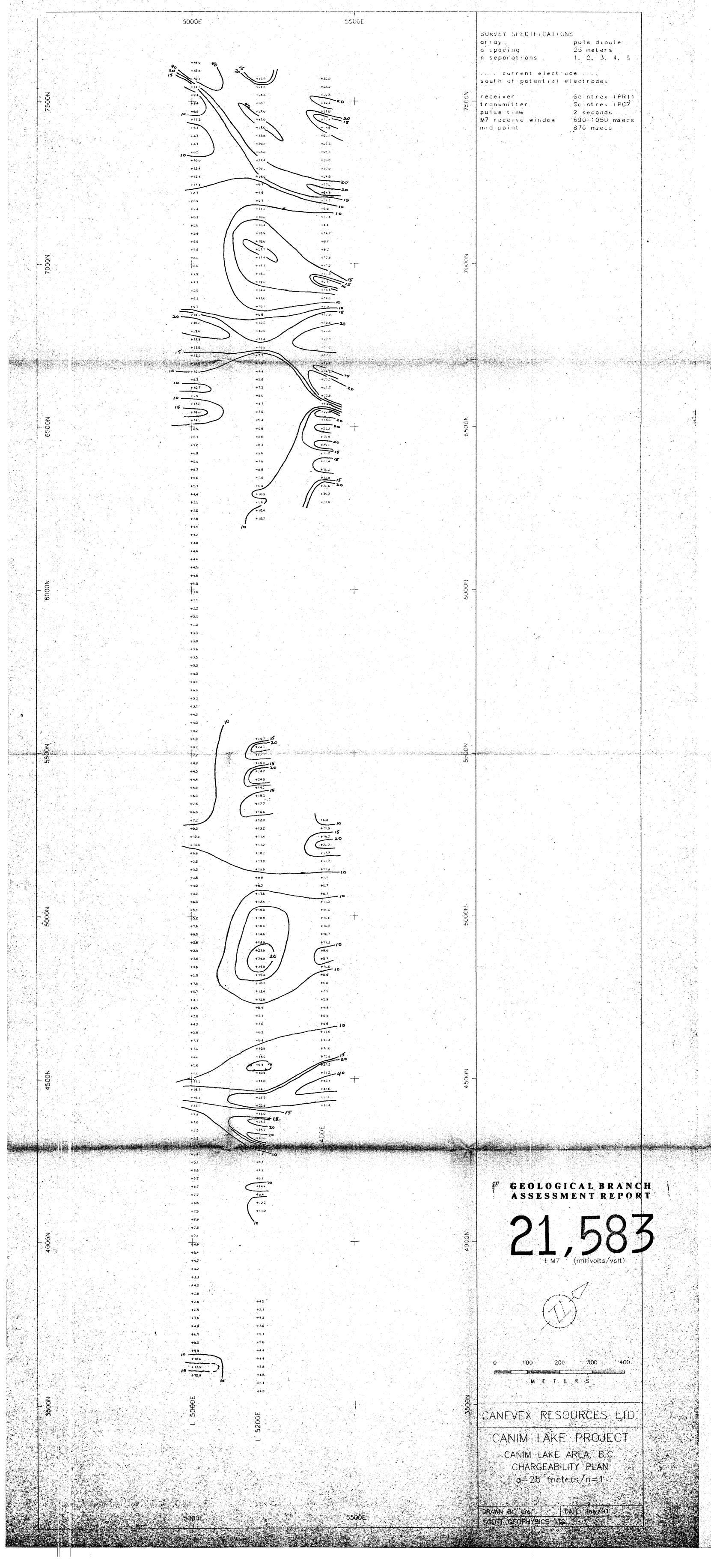
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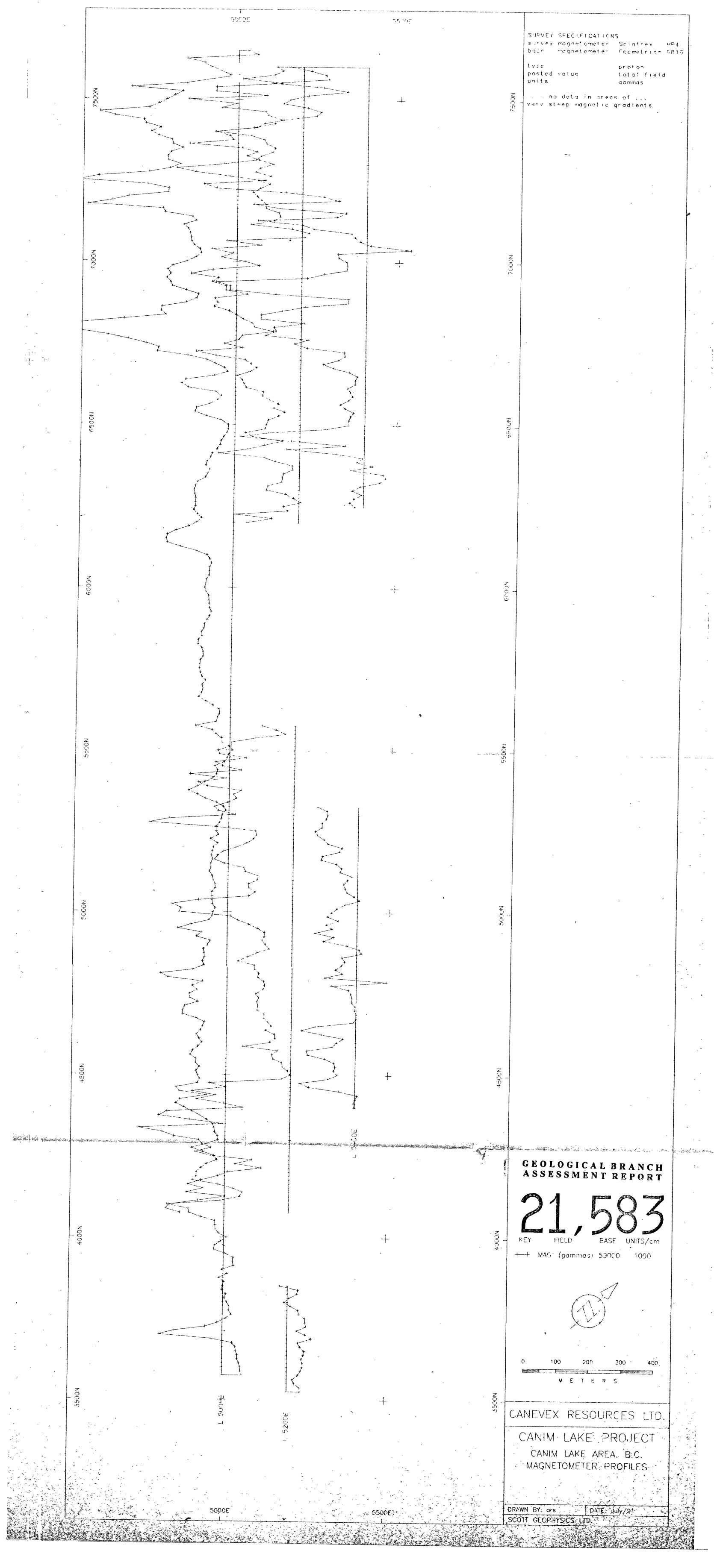
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