

87-410 - 16153

7/88

MAGNETOMETER AND INDUCED POLARIZATION SURVEY
BEEKEEPER PROPERTY

Specific Claims: Beekeeper 1 Record #2055
 Beekeeper 2 Record #3892
 Beekeeper 3 Record #7895

Mining Division: Cariboo

Specific NTS Location: 93A/6W

Latitude: 51° 65' W 52° 23' 42"

Longitude: 121° 20' W 20' 24"

Owner of Claims: Eastfield Resources Ltd.

Operator: Eastfield Resources Ltd.

Author: J. W. Morton

Date: June, 1987.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

16,153

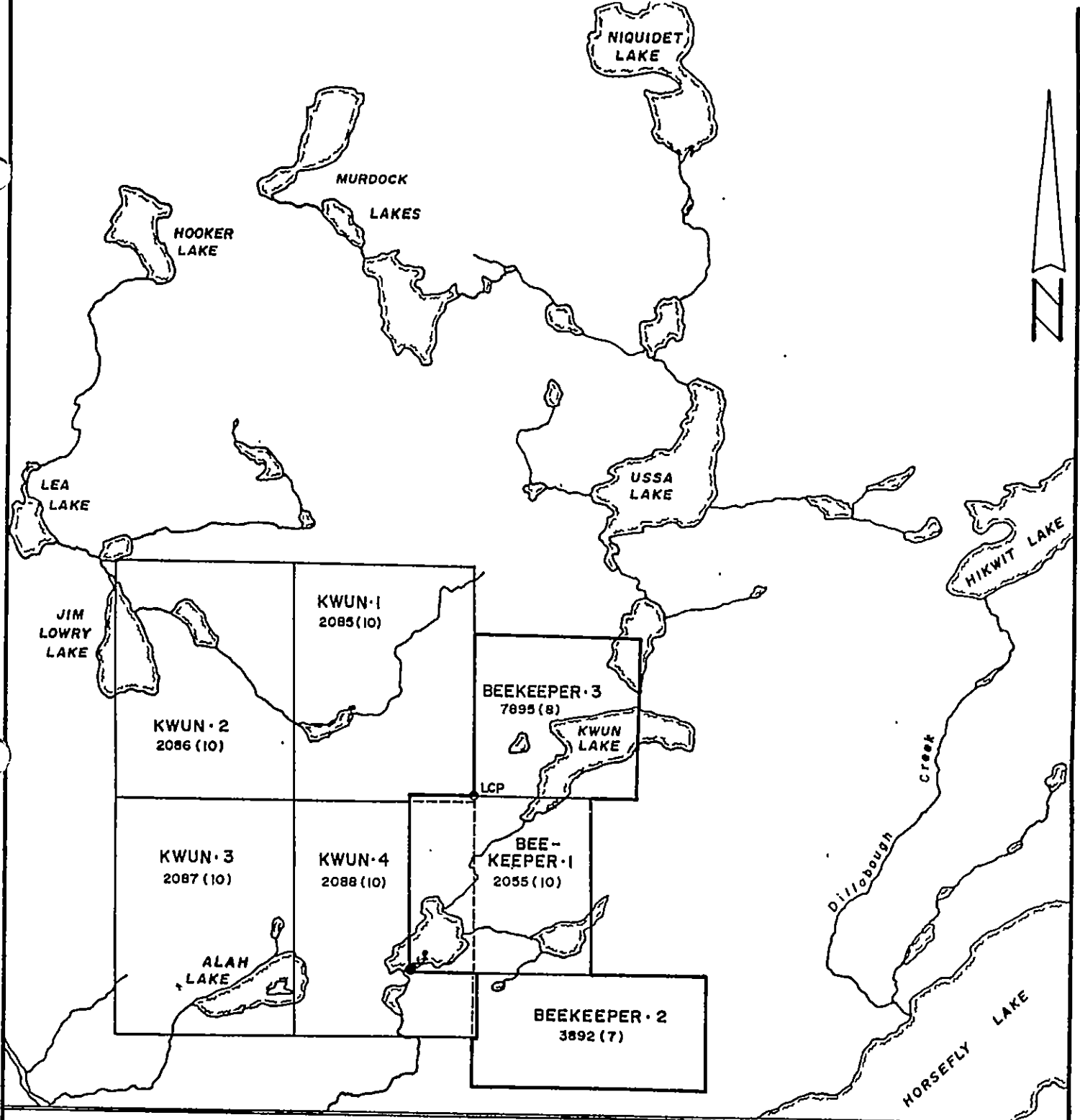
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BEEKEEPER · PROJECT

CLAIM LOCATION



Scale: 1 : 50,000	Date: March 1987	N.T.S. 93-A/6W	Figure: 1
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1

INTRODUCTION

a. General Geographical and Physiographical Position

The Beekeeper claim group is located approximately five (5) kilometers northeast of Horsefly Lake in central British Columbia. The claim occurs in a moist vegetative zone dominated by combinations of coniferous fir-pine-(cedar) and deciduous poplar-birch-willow. Considerable adjacent land has been cleared and converted to improved pasture. Soils are predominantly luvisolic in type and derived from ablation tills, basal tills and lacustrine deposits. Soils generally are neutral to slightly acidic in reaction and are usually heavy in soil texture (loams to clay loams predominating). (Geochemical expression of underlying mineralization can be expected to be poor.) The terrain is moderately undulating with elevations ranging between 825 and 950 meters (2,750 to 3,050 feet).

The property is accessible by pickup truck along a bush road that connects with an all-weather road approximately ten (10) kilometers from the property.

b. Property Definition

i. Property Geology

Dark grey to black pyroxene basalt and augite feldspar porphyry basalt (Upper Triassic) underly much of the Beekeeper property. Diorite to monzonite intrusives occur on the eastern and western edges of the claim group defining a west by northwest trend. A zone of epithermal style alteration occurs on this trend between the outcropping intrusives. Within the alterations zone shearing is accompanied by hydrothermal alteration (carbonate-quartz-sericite and/or epidote) pyrite, visible cinnebar and chalcedonic quartz occur in varying quantities in this region. The linear correlation between the two alkalic intrusives and the epithermal alteration zone (volcanics) may occur as a pendant above a buried alkalic intrusive. It was this inferred pendant relationship that prompted Eastfield to undertake detailed magnetometer and induced polarization surveys.

1 Introduction
b. Property Definition (continued)

ii. Property History

In 1973, Dome Mines Ltd. and Newconex Holdings Ltd. located the large "AL" mineral claim group to cover potential copper gold mineralization related to the Kwun Lake intrusive. The "AL" claim group was reduced in 1980 and relocated as the Kwun claims permitting the Beekeeper 1 claim to be located where some of "AL" group claim reduction had occurred. In 1981, Imperial Metals Corp. conducted soil sampling, ground magnetic and VLF electromagnetic surveys in the area of the Beekeeper 1 claim. In 1983, an additional electromagnetic survey was completed on a small portion of the grid. Bulldozer trenching programs were completed by Imperial Metals Corp. in 1984 and 1985 in conjunction with detailed rock chip sampling.

In 1986, Eastfield Resources Ltd. completed geological mapping in the trench area. Eastfield Resources Ltd. currently owns a 100% interest in the Beekeeper property.

iii. Summary of Work Completed

Induced Polarization Survey: 6.5 km

Magnetometer Survey: 5.5 km

iv. Location of Work

All work completed was on the Beekeeper 1 mineral claims.

2 INSTRUMENTATION AND METHODS/INTERPRETATION

a. Instrumentation and Methods

The detailed magnetometer survey was completed using a Scintrex MP-2 Proton Precession Magnetometer. In this type of survey, total magnetic field strength constitutes the measurable parameter. Diurnal variation was corrected for by using a method of "closed loops" to conduct the survey and then computer correcting and plotting the results (see maps Magnetometer Contour Plan, Figure 5 and Magnetometer Survey, Figure 4).

2 Instrumentation and Methods/Interpretation
a. Instrumentation and Methods (continued)

The Induced Polarization Survey was completed using a Scintrex IPR-11 time domain receiver and a Scintrex IPC-7 2.5 kw transmitter (see Logistical Report for details). Contoured Plan maps are included in this report under the titles: Chargeability Contour Plan, Figure 7 and Resistivity Contour Plan, Figure 6.

b. Interpretation

The area of hydrothermal alteration occurs within coincident magnetometer, chargeability and resistivity anomalies suggesting that the epithermal alteration may occur directly over a buried intrusive (see figures 5, 6 and 7).

3 ITEMIZED COST STATEMENT

Grid Preparation & Mag Survey

January 18, 19 and 20, 1987

J. W. Morton	3 days @ \$200/day	\$	600.00
G. MacKenzie	3 days @ \$120/day		360.00
J. Green	3 days @ \$120/day		360.00
Room and Board,	9 man days @ \$50/man day		450.00

Induced Polarization Survey

February 8 to 13, 1987

Contract Fees, Scott Geophysics		\$	6,170.00
J. W. Morton	6 days @ \$200/day		1,200.00
G. MacKenzie	6 days @ \$120/day		720.00
J. Green	6 days @ \$120/day		720.00
Room and Board,	30 man days @ \$50/ man day		1,500.00

Report Preparation 500.00

TOTAL... \$12,580.00
=====

- QUATERNARY
 Qal Glacial + fluvial deposits;
 alluvium
- TERTIARY (Eocene or younger)
 17 Sandstone, siltstone
- LOWER + MIDDLE JURASSIC
 16 Conglomerate
- LOWER JURASSIC
 15 Volcaniclastic rocks
 14 Volcanic breccia
 13 Alkali olivine basalt
 12 Dark grey analcite
 11 Diorite, monzonite
- UPPER TRIASSIC + YOUNGER
 10 Pyroxene basalt
 9 Sandstone
 8 Breccia (in part intrusive)
 7 Plagioclase-pyroxene basalt
 6 Black pyroxene basalt
 5 Alkali olivine basalt
 4 Pyroxene basalt flow breccia
 3 Pyroxene hornblende basalt
 2 Dark green pyroxene basalt
 1 Greywacke

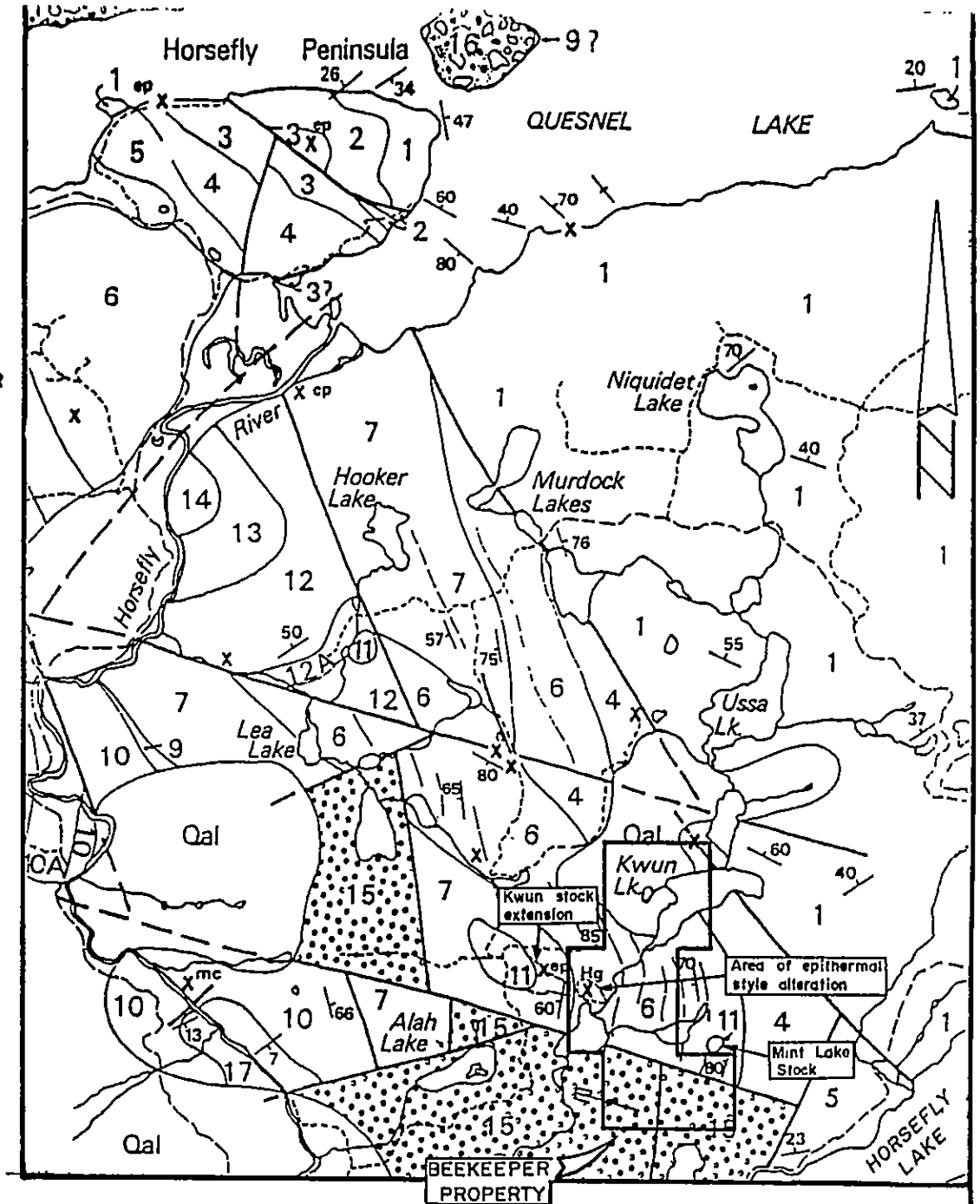
- X Hydrothermal alteration
 ep Epidote
 Hg Mercury
 cp Chalcopyrite
 Mc Marcasite

Trends of well bedded
 volcaniclastic units

Faults

In Part:

After A. Panteleyev
 Quesnel Gold Belt - Alkalic
 Volcanic Terrane between
 Horsefly and Quesnel Lake
 Paper 1987-1

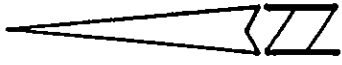


BEEKEEPER PROJECT

REGIONAL GEOLOGY

Scale: 1:80,000 approx.	Date: March 1987	N.T.S. 93-A/6W	Figure: 2
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0+00 W 0+50 N 0+00 0+50 S 1+00 S 1+50 S 2+00 S 2+50 S 3+00 S

8+00 W

BEEKEEPER CLAIMS
KWUN CLAIMS







IP Grid
1987

L.C.P. BEEKEEPER 1
700 m. due south
from 1981 baseline

0 + 00E

Original
Baseline
1981



-  59,000 gamma Magnetometer contour
-  15 mv/V Chargeability contour
-  Trenches
- SOIL GOLD
 -  Weakly anomalous >9 ppb
 -  Anomalous >49 ppb
 - Non-anomalous sites not plotted
- SOIL MERCURY
 -  > 100 ppb Mercury

BEEKEEPER PROJECT			
COMPOSITE SOIL GEOCHEMISTRY and GEOPHYSICS			
Scale:	Date:	N.T.S.	Figure:
1: 5000	March 1987	93-A/6W	3
EASTFIELD RESOURCES LTD.			

4

AUTHOR'S QUALIFICATIONS

I, JAMES WILLIAM MORTON, CERTIFY THE FOLLOWING:

I graduated from Carleton University, Ottawa, in 1971 with a Bachelor of Science in Geology.

I graduated from the University of British Columbia, Vancouver, in 1976 with a Master of Science in Soil Science.

I have worked for various mining and exploration companies since 1969.

I have supervised all of the work described in this report.



J. W. Morton, M.Sc.
Geologist

LOGISTICAL REPORT
INDUCED POLARIZATION SURVEY

BEEKEEPER PROPERTY
HORSEFLY AREA, B.C.

on behalf of

EASTFIELD RESOURCES LTD.
1654 West 7th Avenue
Vancouver, B.C. V6J 1S5

contact: Mr. Bill Morton
(604) 732 5871

Field work completed: February 8 to 13, 1987

by

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

contact: Mr. Alan Scott
(604) 228 0237

February 15, 1987

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1. INTRODUCTION

Induced polarization and resistivity surveys were conducted over portions of the Beekeeper Property, Horsefly Area, B.C. on behalf of Eastfield Resources Ltd., in the period February 8 to 13, 1987. The work was performed by Scott Geophysics Ltd.

The pole dipole electrode array, at an "a" spacing of 25 meters and "n" separations of 1, 2, 3, 4, and 5, was used on the induced polarization survey. The current electrode was to the west of the receiving electrodes on all survey lines.

2. SURVEY LOCATION

The Beekeeper Property is located some 10 kilometers north of Horsefly, B.C.

3. SURVEY GRID AND SURVEY COVERAGE

A total of 6.5 line kilometers were surveyed over 8 lines on the Beekeeper Property. Details of survey coverage are given in the previously submitted production reports.

4. PERSONNEL

Alan Scott, Geophysicist, was the party chief on the survey and operated the IPR11 receiver.

Bill Morton was the project geologist on site on behalf of Eastfield.

5. INSTRUMENTATION

A Scintrex IPR-11 time domain microprocessor based induced polarization receiver and a Scintrex IPC-7 2.5 kw transmitter were used on the survey. The IPR-11 operates on an alternating square wave transmitted current pulse train, and samples the decay curve at ten semilogarithmically spaced times after cessation of each pulse. A 2 second on/2 second off pulse was used on the survey. The data is continually averaged until the operator is satisfied convergence has occurred, and is filed into solid state memory. The eighth slice (from 690 to 1050 milliseconds after shutoff; midpoint at 870 milliseconds) is the value that has been plotted.

The survey data was archived, processed, and plotted on site using a Corona PPC 400 microcomputer running the Scintrex Soft II software. All decay curves were submitted to spectral analysis by a curve matching procedure.

6. RECOMMENDATIONS

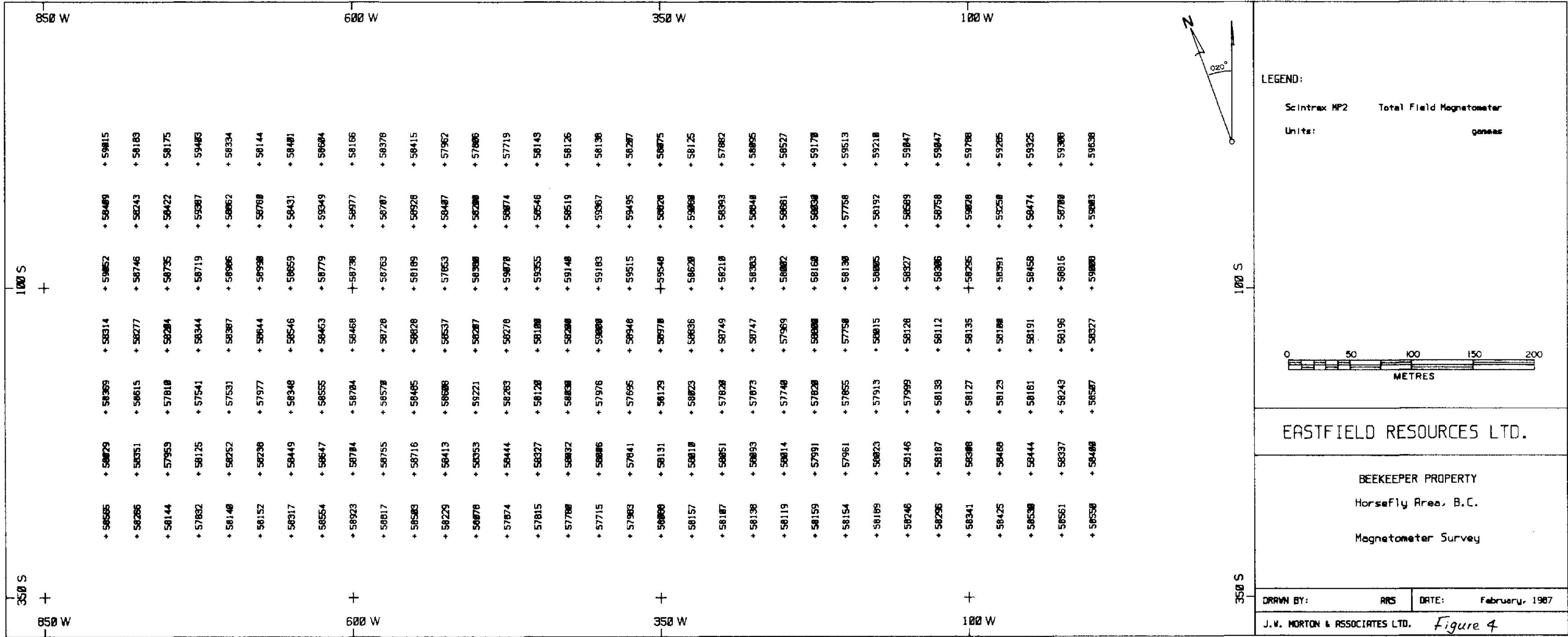
A preliminary examination of the results from the IPR11 survey on the Beekeeper Property indicates the presence of moderate amplitude chargeability highs that merit further investigation.

A detailed interpretation of these results, and correlation to the geological and geochemical data bases, is recommended in order to define specific targets for drilling and/or trenching.

Respectfully Submitted,

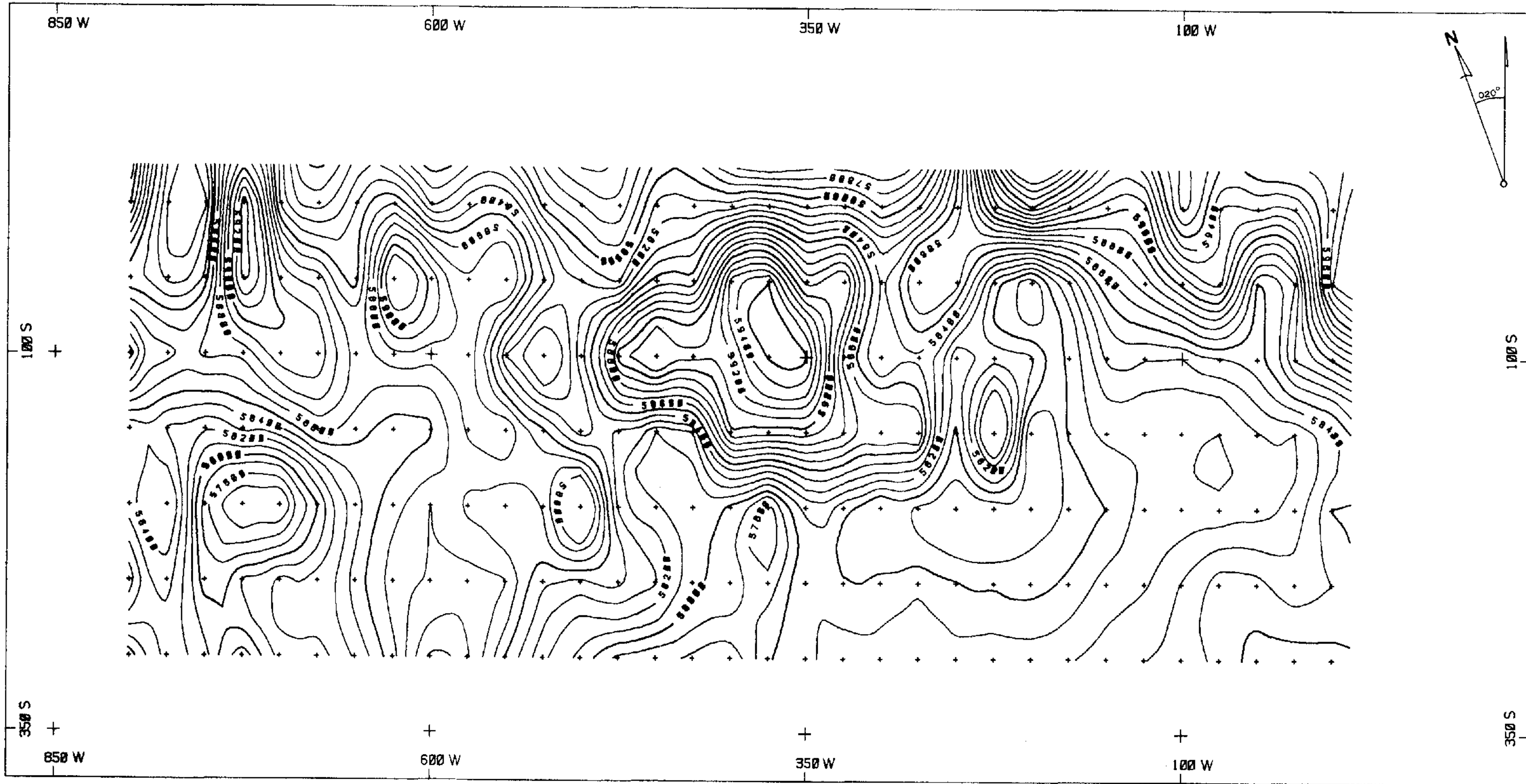
A handwritten signature in black ink, appearing to read 'Alan Scott', written in a cursive style.

Alan Scott,
Geophysicist



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LEGEND:

Scintrex MP2 Total Field Magnetometer

Contour Interval: 100 gauss

Contour range: 57500 to 59800 gauss

Heavy contours: 500 gauss intervals



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BEEKEEPER PROPERTY
Horsefly Area, B.C.

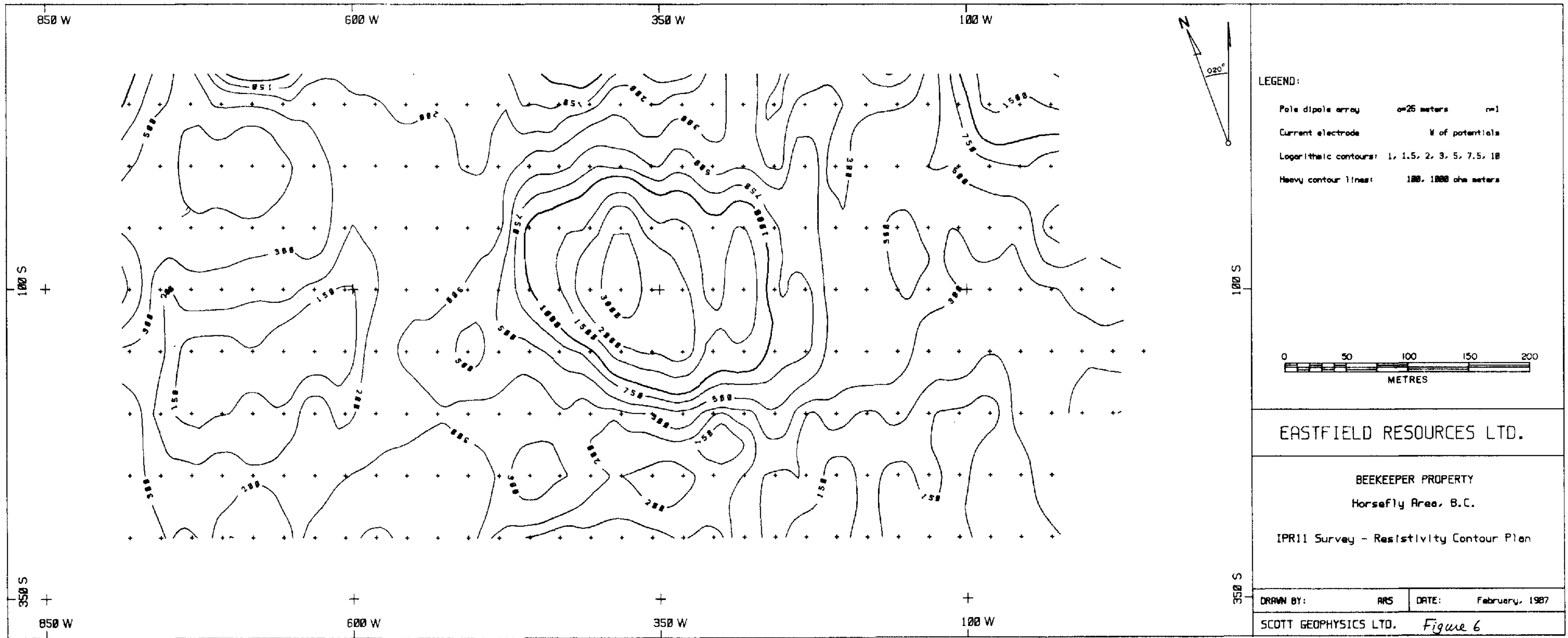
Magnetometer Contour Plan

DRAWN BY: ARS DATE: February, 1987

J.V. MORTON & ASSOCIATES LTD. *Figure 5*

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GEOLOGICAL BRANCH
ASSESSMENT REPORT



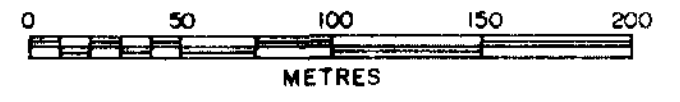
LEGEND:

Pole dipole array $a=25$ meters $n=1$

Current electrode $1/2$ of potentials

Logarithmic contours: 1, 1.5, 2, 3, 5, 7.5, 10

Heavy contour lines: 100, 1000 ohm meters



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BEEKEEPER PROPERTY
Horsefly Area, B.C.

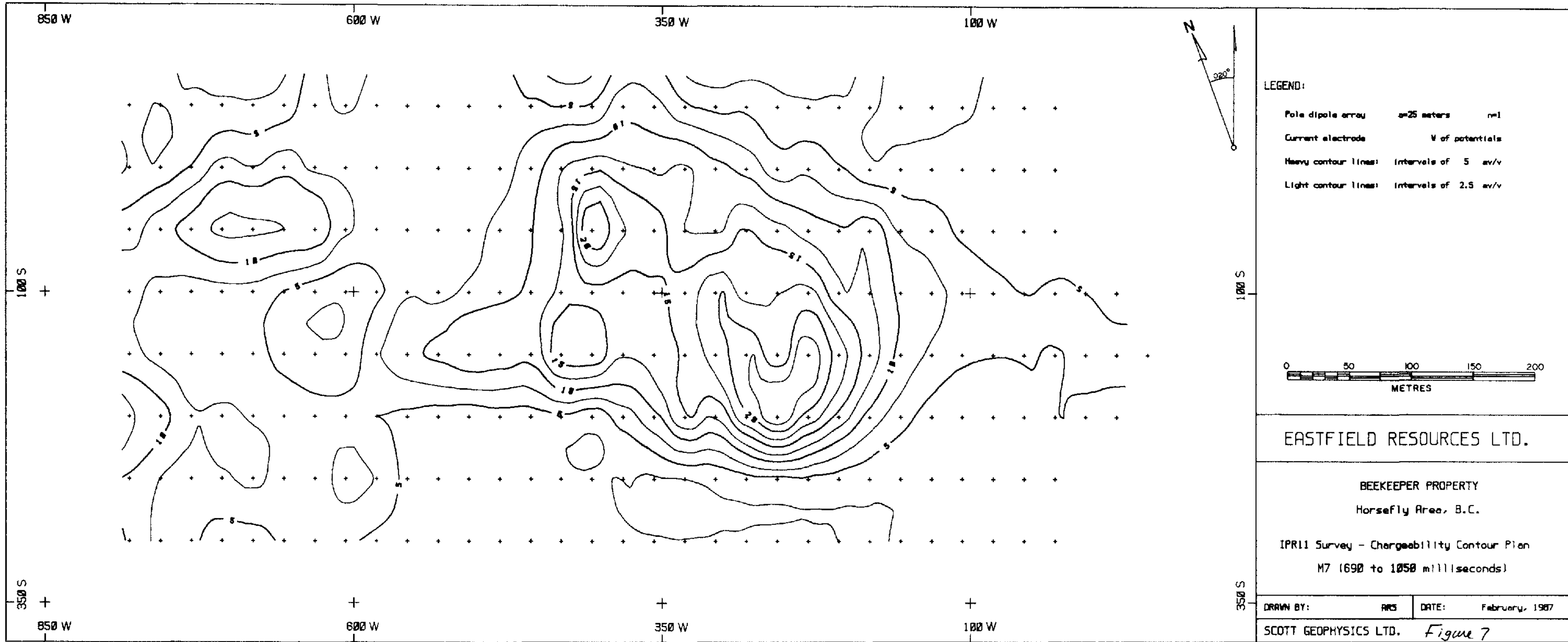
IPR11 Survey - Resistivity Contour Plan

DRAWN BY: ARS DATE: February, 1987

SCOTT GEOPHYSICS LTD. *Figure 6*

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GEOLOGICAL BRANCH
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