

GEOPHYSICAL SURVEY REPORT

ON

THE IRIS PROPERTY

MAGNETOMETER & ELECTROMAGNETIC SURVEYS

PHASE I

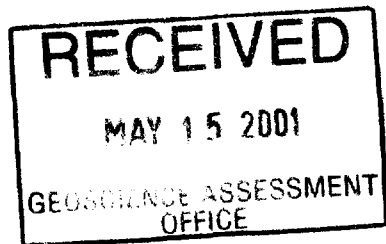
HARKER & ELLIOTT TOWNSHIPS

LARDER LAKE MINING DIVISION

DISTRICT OF COCHRANE, ONTARIO

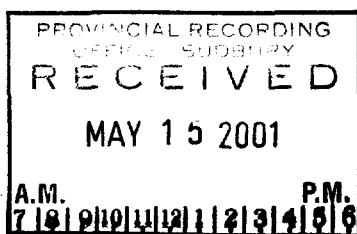
FOR

ALEXANDER H. PERRON



MAY 9, 2001

MISS WENDY K. WELLER  
GEOTECH



32D05NW2097

2.21402

ELLIOTT

010

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GROUND MAGNETOMETER SURVEY MAP NO. IR/2001/mag 2 . . . . . IN BACK POCKET



SUMMARY

i)

This report is a geophysical survey as required by The Ministry of Northern Development and Mines for assessment work purposes, following the recommendation set for in the Mining Act Regulations 1991.

The report includes an introduction to the property, general geology, field results and conclusions based on the field study.

Technical Data is provided on the Assessment Data form found at the back of this report.

Field Data is compiled on the accompanying plan maps found at the back of this report, Maps No. IR/2001/mag and IR/2001/vlf.

In 1999, Mr. Ben Berger from O.G.S. re-mapped and sampled the Iris Property. In his findings, from the sampling, a percentage of the ground showed certain minerals that have never been looked for. (e.g. Platium and Poladium SP).

On April 26, 2001, Gwen Resources started to cut a new West Grid over the West Half of the Iris Property, (unpatented mining claims.)

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ON  
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PHASE I  
HARKER & ELLIOTT TOWNSHIPS  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO

INTRODUCTION

On April 26, 2001, a new West Grid was started on the West Section of the Iris Property.

The baseline was turned off thirty five feet west of the #3 post and pin of patent claim 9739 along the south (East/West) township line of Harker Township and Elliott Township, and twenty feet south of the township line in Elliott Township.

The North/South baseline was cut and two men chained for a distance of 1,750 feet. All picket lines were turned off at 53° East off the baseline (325° North).

This section of the new grid encompasses the following leased CLM399 claim.

All grid control points were two man chained by Gwen Resources Ltd.

All linecutting and chaining was performed by M. Fecteau and crew.

The magnetometer survey and electromagnetic surveys were done by Miss Wendy K. Weller and Mr. John E. Perron.

All drafting was done by Miss Wendy K. Weller. Report writing and contouring was done by Miss Wendy K. Weller.

Ownership of the aforementioned leased and unpatented mining claims has been attested to by The Alberta Gold Exploration Corporation and Alexander H. Perron, and was not independently ascertained by the writer.

LOCATION AND ACCESS

The Iris Group is comprised of 16 patented claims, 2 leased and 12 unpatented mining claims, located in the South East corner of

Harker Township and the north/east corner of Elliott Township, Larder Lake Mining Division, Ontario. (Figure 1 - List of Claims).

The property is situated approximately 75 miles east of Timmins, Ontario, and approximately 25 miles north/northeast of Kirkland Lake, Ontario.

Access to the property is provided by Highway 672 that runs approximately 400 meters west of the West side of the Iris Property north/south survey line of CLM399. Throughout the property there are existing four wheeler trails to access the new grid. (See Figures 1a) and 1b).

### REGIONAL GEOLOGY

The Iris Gold claim group is located in the Abitibi Greenstone Belt of the Canadian Shield. This belt is composed of a sequence of metavolcanic and metasedimentary Archean age rocks that cover an area stretching about 220 miles from Timmins, Ontario, on the west to Val D'Or, Quebec, on the east.

The claims are situated within a sequence of iron rich and magnesium rich tholeiitic basalt flows known as the Kinojevis group (Figure 2). Stratigraphically, this group is about 30,000 feet thick and it occupies the core of a large east plunging synclinorium.

The Iris claim group is underlain by a sequence of tholeiitic basalt flows belonging to the Kinojevis Group. This group is composed of a sequence of iron rich and magnesium rich tholeiitic basalt flows forming a stratigraphic package about 30,000 feet thick. These rocks are overlain by younger, Blake River group calc-alkalic volcanics. Both have been folded into a large, east plunging synclinorium, the northern and southern limbs of which, have been cut by the major Porcupine Destor and Kirkland Lake-Larder Lake fault zones respectively. The Iris Property is situated about 5 miles south of the Destor Porcupine Fault zone near the Kinojevis-Blake River group contact.

### PROPERTY HISTORY

The Iris property comprises 31 patented and/or unpatented mineral claims, (Figure 2) in Harker and Elliott Townships, Ontario, all registered in the name of John E. Perron, a principal of the The Alberta Gold Exploration Corporation.

### PREVIOUS WORK

The Harker-Holloway area was the centre of mining activity during the 1920's when Harker Gold Mines Ltd. carried out a program

FIGURE 1

HARKER AND ELLIOTT TOWNSHIPS

CLAIM WORK PERFORMED ON

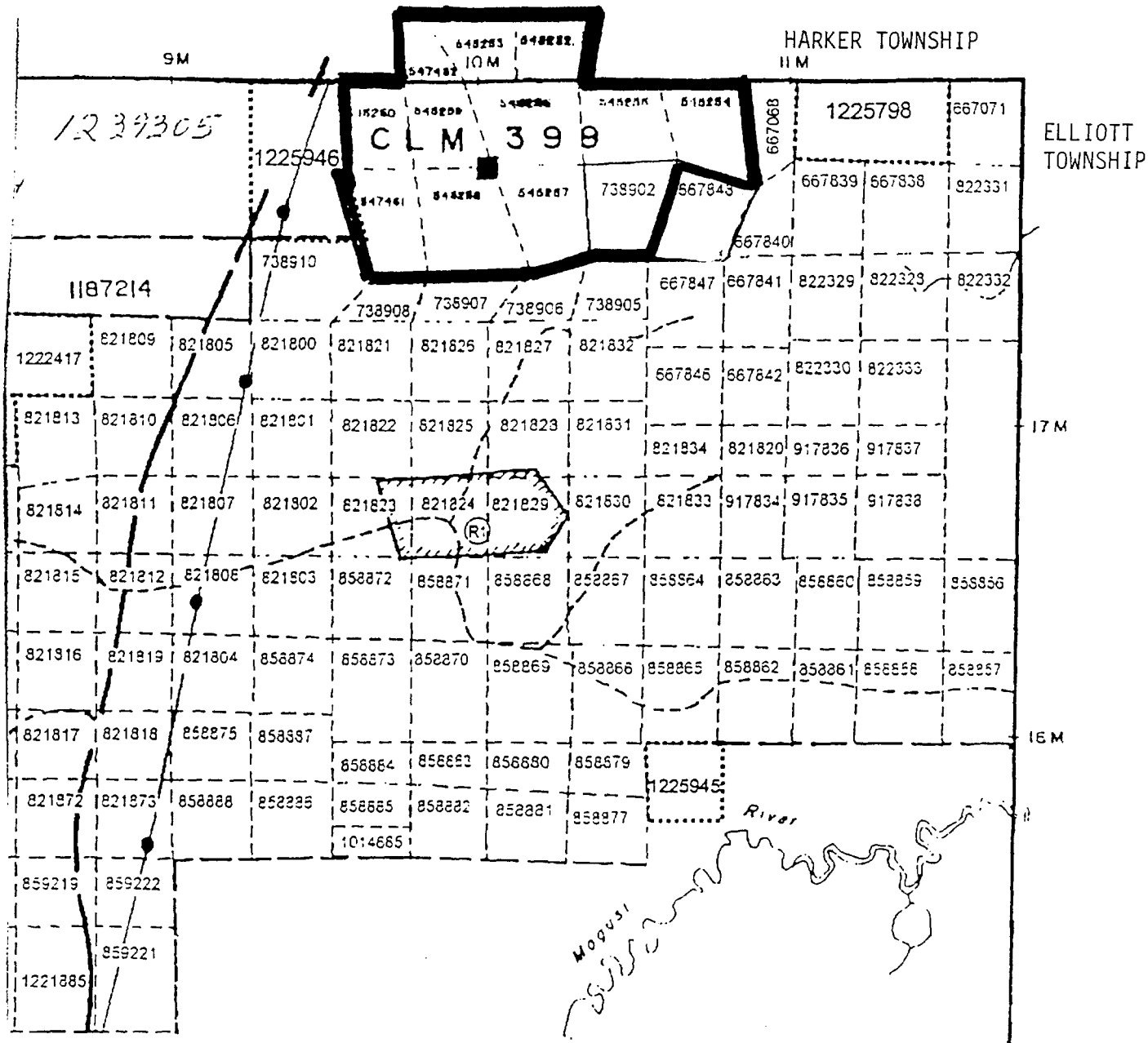
CLM 399 (10)

L-738902

11 CLAIMS

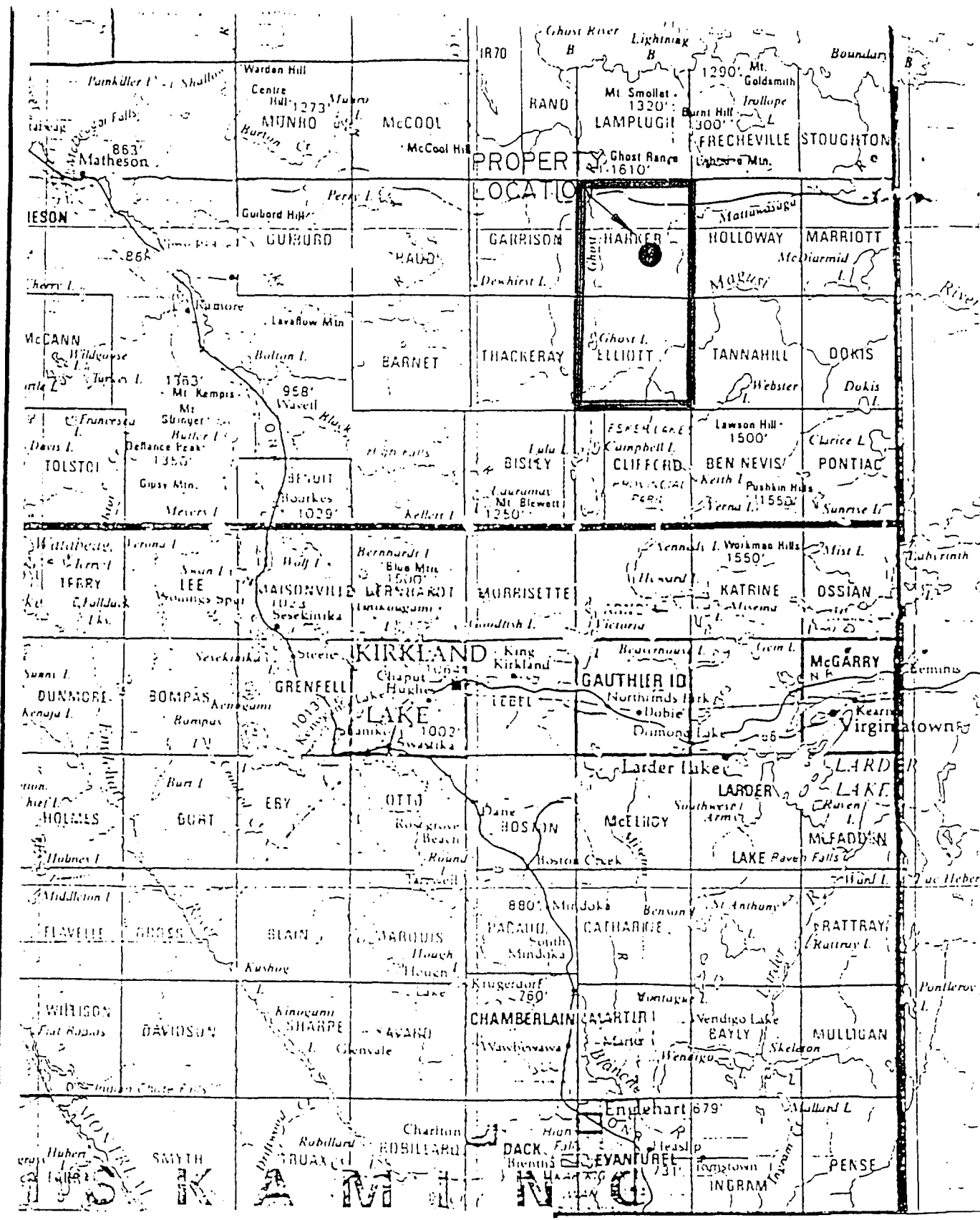
CLAIM LOCATION MAP

FIGURE 1a)

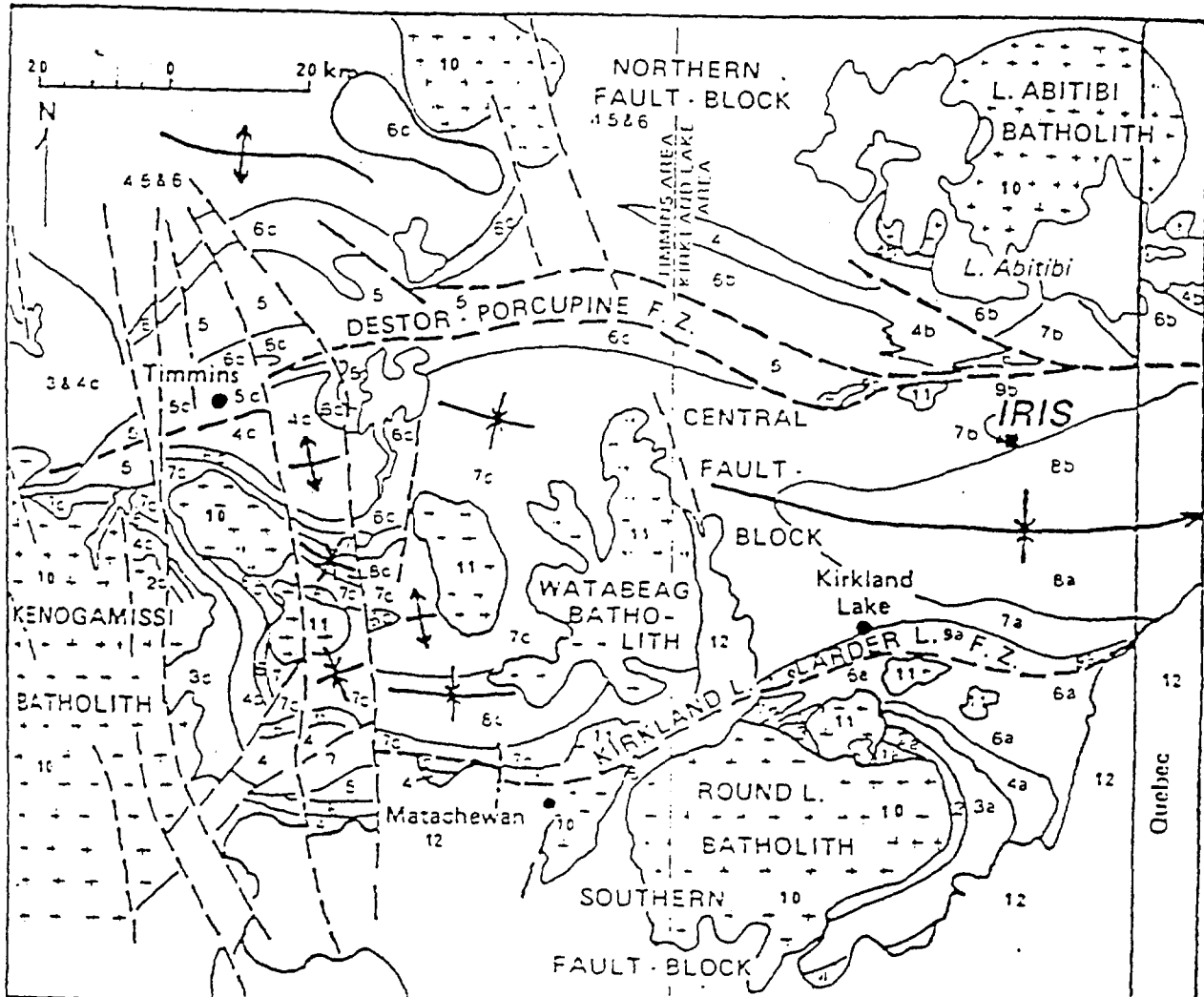


LOCATION MAP

FIGURE 1b)







LEGEND

- Proterozoic
  - Keeweenawan diabase (not shown)
  - 12 Cobalt Group
- Archean
  - Matachewan diabase (not shown)
- Granitic rocks
  - 11 Granodiorite, monzonite, quartz monzonite, syenite
  - 10 Massive to gneissic quartz diorite, tonalite, trondhjemite
- Upper Supergroup
  - 9 9a\* Timiskaming Group, 9b\*\* Destor - Porcupine Complex
  - 8 8a, 8b, Blake River Group, 8c\*\*\* Blake River (Upper Fm., Tisdale Group)
- Lower Supergroups
  - 7 7a, 7b, Kinojevis Group, 7c Kinojevis Group, (Middle Fm., Tisdale Group)
  - 6 6a Larder Lake Group, 6b Stoughton-Roquemaure Group, 6c Lower Fm., Tisdale Group
  - 5 5c Porcupine Group
  - 4 4a Skead Group, 4b Hunter Mine Group, 4c Upper Fm., Deloro Group
  - 3 3a Catherine Group, 3c Middle Fm., Deloro Group
  - 2 2a Wabewawa Group, 2c Lower Fm., Deloro Group
  - 1 1a Pacaud tuffs \*\*\*\*

AFTER JENSEN AND LANGFORD (1985)

FIGURE 2

of extensive underground development on their Golden Harker property, situated immediately to the north of the Iris claim group. The Golden Harker Mine was closed in 1929.

In 1947, R. Storen examined the Iris property and reported the occurrence of gold mineralization in three separate localities, associated with «rhyolite» interflow horizons (Figure 3).

Vein 1 was exposed in two pits 900 feet apart and it consisted of sheared basalt/rhyolite mineralized with quartz-pyrite-chalcopyrite and galena. The vein was 1.9 feet wide and returned values of 0.29 ozs. per ton AU over 1.7 feet and 0.08 ozs. per ton AU over 1.9 feet.

Vein 2 is similar to vein 1 and returned values of 0.03 and 0.04 ozs. per ton AU over 8 inches and 7.5 inches respectively.

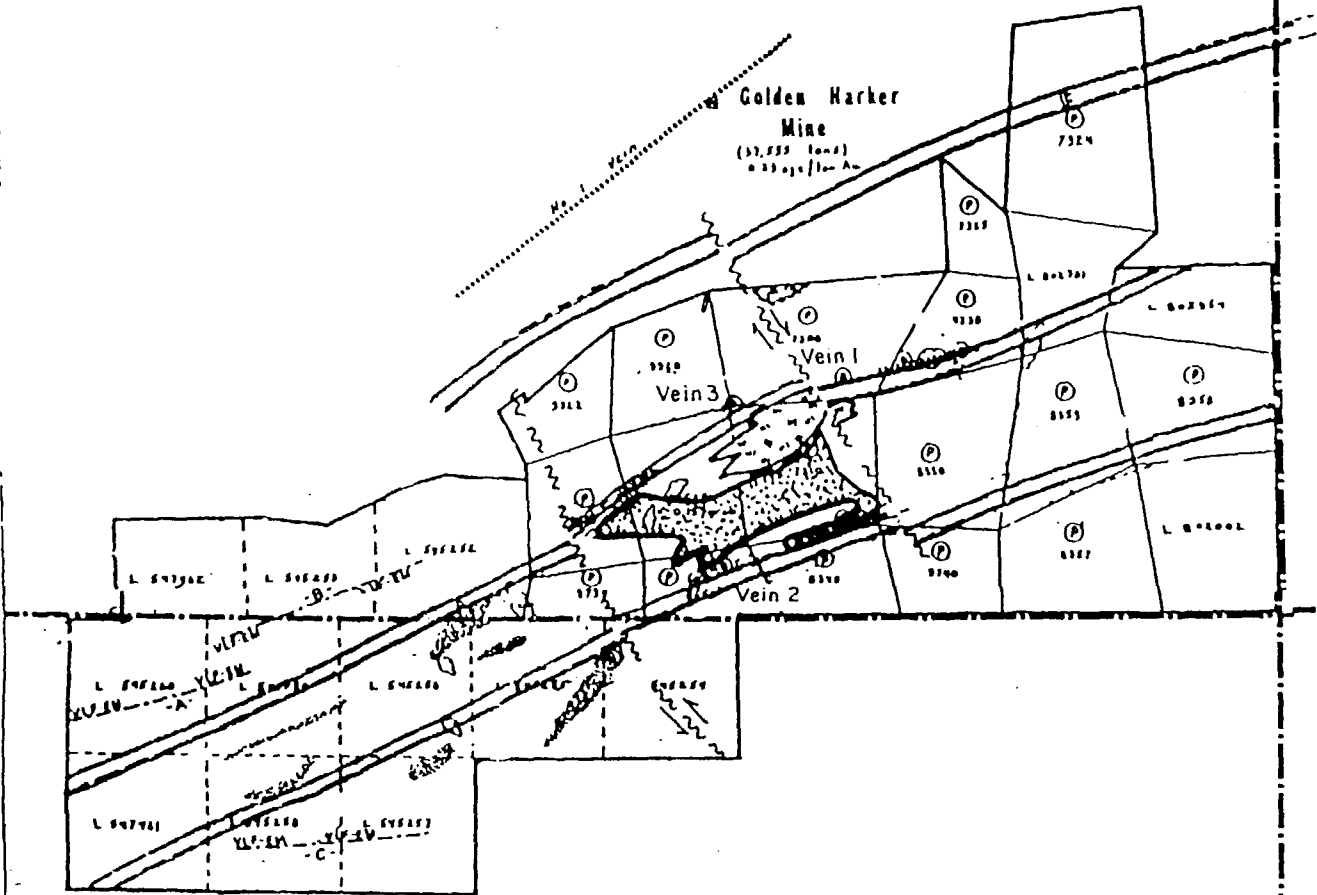
Vein 3 is located about 2,000 feet west of Vein 1 on the same «rhyolite» interflow horizon. It was exposed in two pits and it consisted of a N 70° E near vertical quartz vein containing pyrite, chalcopyrite, galena and visible gold. Assay samples taken from the east and west pits returned values of 0.11 ozs. per ton AU over 14 inches and 0.06 per ton AU over 8 inches respectively.

Storen (1947) also reported the occurrence of a wide zone of quartz mineralization in rhyolite on claim L-545251. The quartz contained disseminated pyrite with minor amounts of chalcopyrite and galena. A chip sample from this locality returned a value of 0.01 per ton AU over 5 feet.

In 1985 American Barrick Resources Ltd. announced the discovery of the Holt-McDermott deposit containing reserves of 2.8 million tons averaging 0.197 ozs. per ton AU. This announcement coupled with encouraging news from companies exploring other properties in the area helped intensify exploration efforts in the whole region. Recently, Canamax Resources Ltd. completed an underground exploration and development program on their East Zone property with a view to achieving production during 1988. Lenora Explorations Ltd., one of the Kasner Group of companies is in the midst of a substantial underground exploration program on their Gold Harker property which adjoins the Iris claim group immediately to the north. They have increased the reserves on the property and discovered new mineralized zones which are undergoing intensive evaluation.

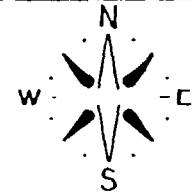
During the period 1982 to 1987 detailed ground geophysical, geological and geochemical work plus airborne electromagnetic and magnetic surveys were completed on the Iris claim group. A number of geophysical and geochemical anomalies were defined by this work. In late 1986 and early 1987, a 5,924 foot drill program was carried out on the property by Perrex Resources Ltd. The drilling was focussed on geological targets and succeeded in defining areas of wide spread, low grade, gold mineralization within a syenite plug and narrow zones of higher grade mineralization within shear/breccia zones in basalts.

HARKER TOWNSHIP



ELLIOTT TOWNSHIP

FIGURE 3



LEGEND

- Quartz vein (with associated gold)
- Siliceous Zone
- Gneiss
- Fault
- Electromagnetic anomaly
- Geochemical anomaly
- New stripping
- Old trenches
- Old pit workings or showings
- Pyroxenite

KEY MAP

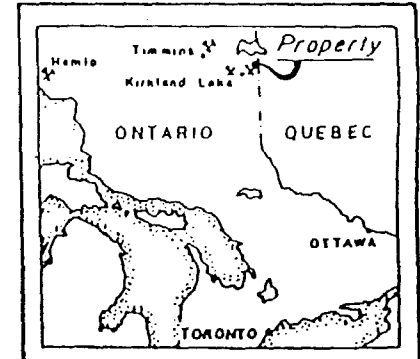


FIGURE 4

The Alberta Gold Exploration Corporation  
IRIS GOLD PROPERTY MAP

HARKER GOLD AREA  
LARDER LAKE MINING DIVISION  
DISTRICT OF COCHRANE, ONTARIO



Scale: 1 inch to 1000 feet

PERRONS'

Kirkland Lake, Canada

Approved by: Alexander Perron

Map No. 1 Drawn by: Mary Greer Date: June 1986

- 3 a) -

## INSTRUMENTATION

### Magnetometer Survey:

This system uses a backward motion of spinning protons of a hydrogen atom within fluid of hydrogen and carbon. These spinning magnetic protons are caused to have two opposite poles by applying a magnetic field using a current within a coil of wire. This frequency of precision is proportional to the earth's total magnetic field.

This instrument is read directly in gammas which is the absolute value of the earth's total field for that station.

The diurnal variation was monitored by closing each loop at any secondary check station, at a grid line, baseline intersection. Diurnal corrections were applied by linear distribution of any observed variation over the time between base stations.

### Electromagnetic Survey:

The VLF-EM method uses as a source, several of the main submarine communications transmitters in the 15 to 25 kHz band found throughout the world.

The submarine communication radio waves travel in a single mode parallel to the surfaces of the earth along the earth-air interface.

VLF instruments are capable of picking up any structures that change the direction of the waves by measuring the tilt angle being zero on flat ground, but when a conductor is present, the tilt angle will acquire a finite value. The direction of tilt indicates the direction of the conductor.

Calculations of such parameters as depth, depth extent, dip and width of the conductors is very minimal.

The VLF easily illustrates the location of the upper limit of dipping structures which can be seen or plotted as VLF profiles as areas of greatest change in tilt angle per unit of distance.

The instrument used for this survey was a Geonics EM-16 Unit. The sensitivity of this unit is 1% for the inphase and 1% for the quadrature. The operating frequency for the EM-16 from 15-25 kHz and the station is made by plug-in units.

Further information on the VLF and the magnetometer can be found in the back of this report on the Technical Data and Assessment forms.

## PRESENTATION AND DISCUSSION OF RESULTS

### i) Magnetometer Survey 2001:

The field data is presented on Map No. IR/2001/mag2 at

a scale of 1" = 200' found at the back of this report.

The magnetic data is illustrated as isomagnetic contours, contour intervals 100 gammas, on a Map of corrected magnetic values at each station.

The magnetic relief ranges from 57,601 gammas to 60,371 gammas (difference of 2,770 gammas).

Over three quarters of the new grid is covered by large low magnetic bands crossing the property. The two large high magnetic bands crossing the property at N70-80°/75°-85°S are part of the Kinojevis sequence, that forms the main structure. (These structures are found north and south of the baseline and in the southwest corner of the property).

In the south-west section of the new grid (P-1200W to P-200W) an interruption in the large low magnetic band occurs by a large high magnetic structure. It has been noted by previous work across the property that there has been a number of north to north-westerly trending faults some of which indicate offsets while others don't.

ii) Electromagnetic Survey:

The field data is presented on Map No. IR/2001/vlf2 at a scale of 1 inch = two hundred feet, found at the back of this report.

In this survey (south/west half) three distinctive contacts were found.

Q1 - Crosses PL200S 1030W to PL800S 710W.

The contact is found along the east edge of a large outcrop. The contact crosses a large magnetic high band that interrupts the large magnetic bands that crosses the property.

Q2 - Crosses PL200S 3150W to PL800S 2945W.

The area is flat swamp area to a rise to the north. The contact crosses through a small high magnetic anomalie also interrupting the large low magnetic bands crossing the property.

Q3 - Crosses PL200S 3975W to PL1000S 3890W.

This contact is found in very wet alder and spruce bog. In the far south end of the contact there is a creek system where the creek bottom is grey clay.

At the present time the VLF-EM Survey is being run through the Fraser Filter Computer Program to help eliminate background noise.

OBSERVATIONS AND RECOMMENDATIONS

The Iris Gold Group and the Iris 10 Group of Alberta Gold Exploration Corporation and Mr. Alexander H. Perron is located in the Archean Abitibi Green-

stone Belt south of the Porcupine Destor Fault Zone in east north-east trending Kinojevis Group rocks.

The claim groups cover various flow and fragmental units of mafic volcanic nature with two rhyolite interflow horizons that cross the group for a length of about 3.22 kilometers. It was recommended by Mr. A.D. Drummond, PH.D., P. Eng., Geological Engineer, «in order to test the two distinct targets of this property, that the old pre-existing grids be re-established for survey control. That the rhyolite horizons and the syenite stock be defined magnetically and an electromagnetic survey be run to help define the foot and hanging walls of both rhyolite horizons and to check the brecciated aureole and the syenite stocks».

The original E/W Grid was cut in 1988 and the last time it was worked on was 1991-2 at a 400' interval. The original north/south baseline was cut out in last year's survey as PL000. The new grid was tied into the survey posts and pins of CLM399 and old existing roads and trails.

In the near future a gradiometer Survey and I.P. Survey will be run.

Respectfully submitted,



May 9, 2001

Miss Wendy K. Weller  
Geotech

# Assessment Data Form

## Type of Work:

Prospecting: \_\_\_\_\_ Geological: \_\_\_\_\_

Physical: LINE CUTTING AND CHAINING \_\_\_\_\_

Geophysical: ELECTROMAGNETIC (1 STATION) AND MAGNETOMETER SURVEY \_\_\_\_\_

Geochemical: \_\_\_\_\_ Drilling: \_\_\_\_\_

Assays/Analyses: \_\_\_\_\_ Other work: \_\_\_\_\_

Cost of Work: \$6,001.00 \_\_\_\_\_

Dollars Applied: \$6,001.00 \_\_\_\_\_

## Recorded Holder:

Name: \_\_\_\_\_

Address: 103 GOVERNMENT ROAD EAST,  
KIRKLAND LAKE, ONTARIO P2N 1A9 \_\_\_\_\_

## Survey Company:

Name: GWEN RESOURCES LTD. \_\_\_\_\_

Address: 103 GOVERNMENT ROAD EAST,  
KIRKLAND LAKE, ONTARIO P2N 1A9 \_\_\_\_\_

## Survey/Report Information:

Start of work: APRIL 26, 2001 \_\_\_\_\_

End of work: MAY 9, 2001 \_\_\_\_\_

Draughting time: MAY 8, 9, 2001 \_\_\_\_\_

Report time: MAY 9, 2001 \_\_\_\_\_

Completion of report: MAY 9, 2001 \_\_\_\_\_

Author: MISS WENDY K. WELLER \_\_\_\_\_

Work performed on claim(s) \_\_\_\_\_

CLM399, L-738902 \_\_\_\_\_

## Work applied to claim(s)

L-982158, L-982159, L-982160, L-982163, L-982164, L-982165, L-982293, L-982294,  
L-982297, L-982298, L-982299, L-982300, L-982301, L-982302, L-1185314, L-1185315. \_\_\_\_\_

## Persons who performed work (supervisor first):

GWEN RESOURCES LTD. \_\_\_\_\_

WENDY K. WELLER \_\_\_\_\_

JOHN E. PERRON \_\_\_\_\_

MICHEL FECTEAU AND CREW \_\_\_\_\_

**Technical Data:**

Line (mi/km): 11.8 KM  
 No. of samples/stations: 387  
**ELECTROMAGNETIC SURVEY:**  
 Instrument: GEONICS EM-16  
 Coil configuration: VERTICAL AND HORIZONTAL  
 Method: FIXED TRANSMITTER  
 Vertical scale: 1 INCH =  $\pm$  40%  
 Frequency: 24.8 kHz  
 Operational technique: ALL READINGS FACING NORTH EAST

Line traversed:  
 Line/picket spacing: 200 FT./100 FT.  
 Operator: MISS WENDY K. WELLER  
 Accuracy:  $\pm$  1%  
 Coil separation: INFINITY  
 Parameters: INPHASE & QUADRATURE  
 Horizontal scale: 1:50000  
 Station: SEATTLE, WASHINGTON

**MAGNETIC SURVEY:**  
 Instrument: MCPHAR GP-8 PROTON  
 Base station: BL1600S  
 Base station time: 30 MINUTES  
 Contour interval: 100 GAMMAS  
 Contoured by: MISS WENDY K. WELLER  
 Operational technique: SPENCER POLE MOUNT

Operator: JOHN E. PERRON  
 Accuracy: - GAMMA  
 Diurnal method: CLOSED LOOP  
 Location/value: BL1600S  
 Datum subtracted: 57,000 GAMMAS  
 Horizontal scale: 1:50000

**INDUCED POLARIZATION SURVEY**

Transmitter used:  
 Method:  
 On time:  
 Off time:  
 Power source:  
 Electrode array:  
 Readings taken:  
 Operational technique:

Receiver used:  
 Frequency:  
 Range:  
 Delay time:  
 Output:  
 Electrode spacing:  
 Other data:



BIBLIOGRAPHY

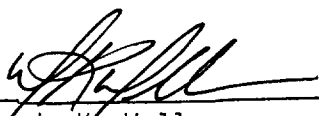
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- Satterly, J. 1952 - Geology of Harker Township; 60th Annual Report of the Ontario Department of Mines, Vol. LX, Part VIII, 1951.
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- Jensen, L.S. 1986 - Mineralization and Volcanic Stratigraphy in The Western Part of the Abitibi Subprovince: Ontario Geological Survey, Misc. Paper 129.
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- Workman, Al. 1988 - Evaluation Report.
- Weller, Miss Wendy K.  
July 24, 2000 - Geophysical Survey Report on The Iris Property Magnetometer & Electromagnetic Surveys Harker & Elliott Townships, Larder Lake Mining Division, District of Cochrane, Ontario
- Weller, Miss Wendy K.  
May 8, 2001 - Geophysical Survey Report on the Iris Property Magnetometer & Electromagnetic Surveys Phase I Harker & Elliott Townships, Larder Lake Mining Division, District of Cochrane, Ontario May 8, 2001

C E R T I F I C A T E

I, Wendy K. Weller, of Kirkland Lake, Ontario, do hereby certify:

- 1) That I am a Geotech in Training and reside at:  
71 Second Street, Apartment #2, Kirkland Lake, Ontario.  
P2N IR6.
- 2) That I graduated from the Haileybury School of Mines as a certified Diamond Driller in 1982. I have had a staking licence for the past 11 years.
- 3) That I was employed as a Diamond Driller for Heath & Sherwood for 1 year.
- 4) That I have been practising as a Geotech Trainee for a period of eleven (11) years and I am qualified to write this report.
- 5) That I supervised and participated in this survey.

May 9/2001  
Date

  
\_\_\_\_\_  
Wendy K. Weller  
Geotech

Work Report Summary

Transaction No: W0180.30109 Status: APPROVED
Recording Date: 2001-MAY-14 Work Done from: 2001-APR-26
Approval Date: 2001-JUL-19 to: 2001-MAY-09

Client(s):
181187 PERREX RESOURCES INC.
181257 PERRON, ALEXANDER H.
200833 THE ALBERTA GOLD EXPLORATION CORPORATION

Survey Type(s): LC MAG VLF

Work Report Details:

Table with columns: Claim#, Perform, Perform Approve, Applied, Applied Approve, Assign, Assign Approve, Reserve, Reserve Approve, Due Date. Rows include claim numbers like 8000937, 738902, 982158, etc.

External Credits: \$0
Reserve: \$0 Reserve of Work Report#: W0180.30109
\$0 Total Remaining

Status of claim is based on information currently on record.



32D05NW2097 2.21402 ELLIOTT

Date: 2001-JUL-20

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

THE ALBERTA GOLD EXPLORATION CORPORATIC  
103 GOVERNMENT ROAD EAST  
KIRKLAND LAKE, ONTARIO  
P2N 1A9 CANADA

Tel: (888) 415-9845  
Fax:(877) 670-1555

**Submission Number:** 2.21402  
**Transaction Number(s):** W0180.30109

Dear Sir or Madam

**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact LUCILLE JEROME by email at [lucille.jerome@ndm.gov.on.ca](mailto:lucille.jerome@ndm.gov.on.ca) or by phone at (705) 670-5858.

Yours Sincerely,



Ron Gashinski  
Supervisor, Geoscience Assessment Office

**Cc:** Resident Geologist

Perrex Resources Inc.  
(Claim Holder)

The Alberta Gold Exploration Corporation  
(Claim Holder)

Wendy Kathleen Weller  
(Agent)

Assessment File Library

Alexander H. Perron  
(Claim Holder)

The Alberta Gold Exploration Corporation  
(Assessment Office)

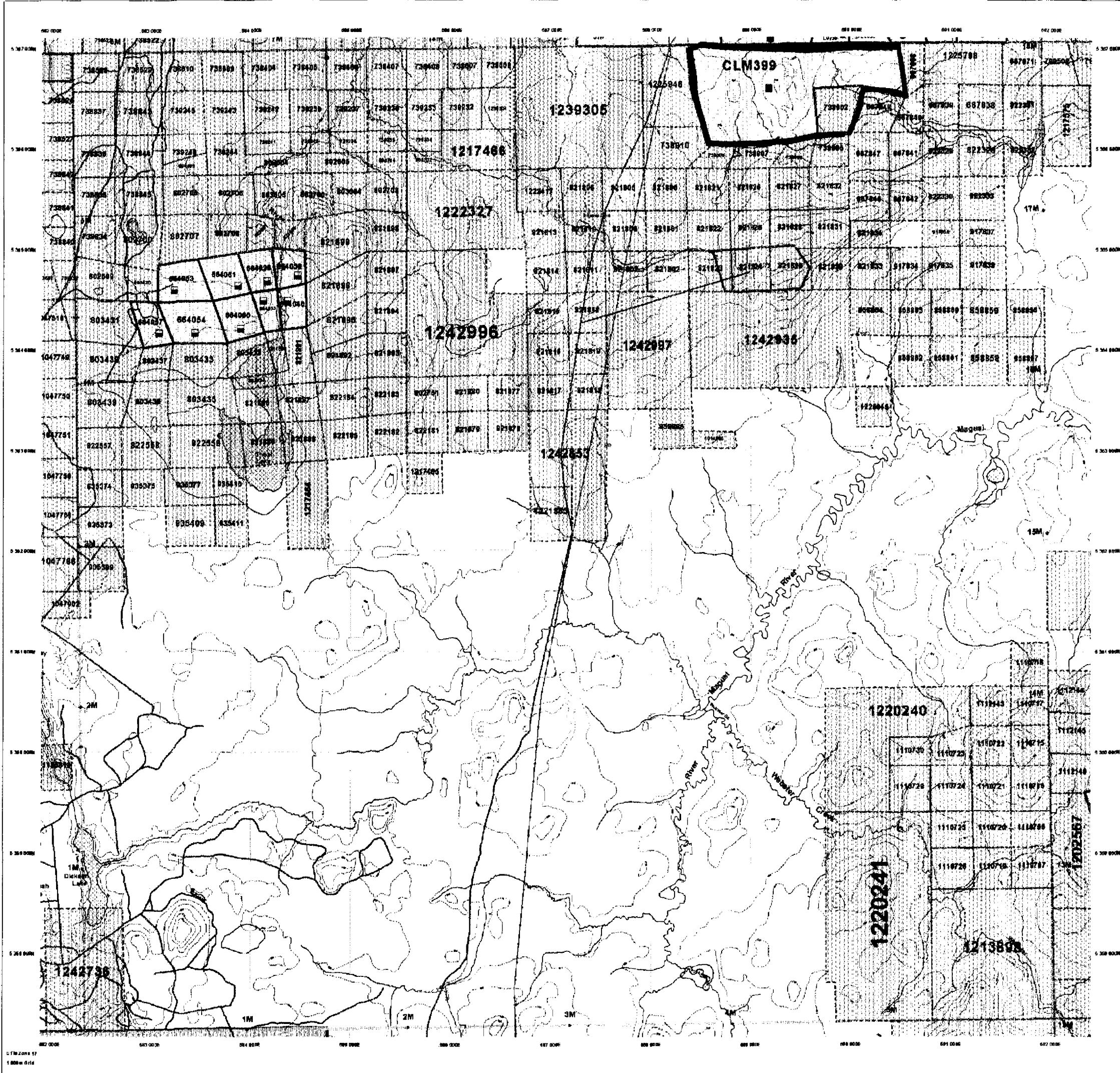


MINING LAND TENURE MAP

Date / Time of Issue Apr 3 2001 11:13h Eastern

TOWNSHIP / AREA ELLIOTT PLAN G-3633

ADMINISTRATIVE DISTRICTS / DIVISIONS Mining Division Larder Lake Land Titles/Registry Division COCHRANE Ministry of Natural Resources District KIRKLAND LAKE



TOPOGRAPHIC and LAND TENURE legend. Includes symbols for Administrative Boundaries, Townships, Concession, etc. and a table for LAND TENURE WITHDRAWAL B with codes like W1, W2, W3, W4, W5, W6, W7, W8, W9, W10.

LAND TENURE WITHDRAWAL DESCRIPTIONS table with columns: Number, Type, Date, Description. Includes entries for 3400, 3401, 3402.

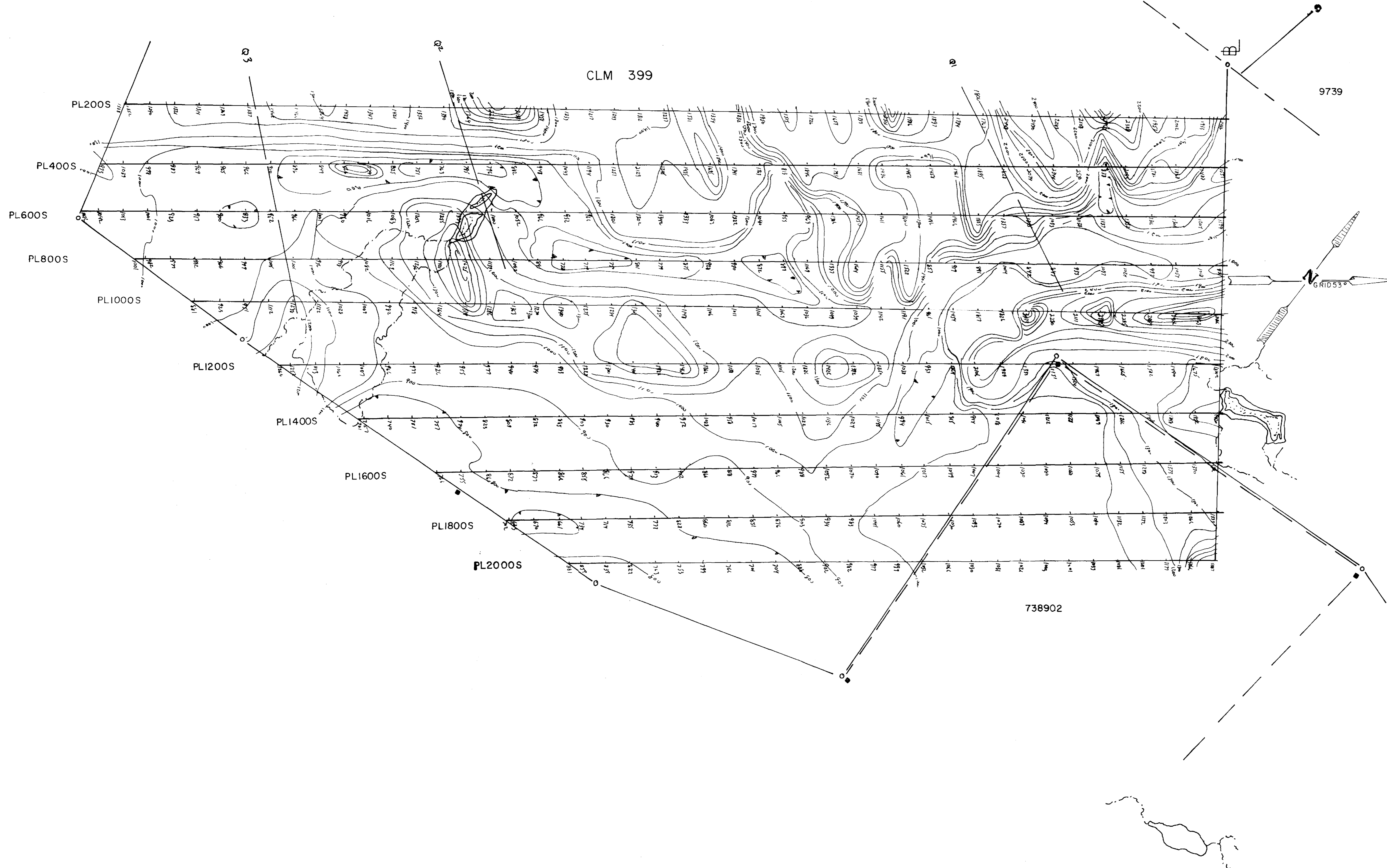
IMPORTANT NOTICES: Areas under which special regulations, limitations or conditions may be applied to mining, staking and related development activities.

2.21402  
MAG  
VLF



32D05NW2097 2.21402 ELLIOTT 200

General Information and Limitations. This map is not a... (small text at the bottom of the page)



- SYMBOLS**
- Lease line ——— Pin ○
  - Claim line - - - - - Claim post ■
  - Township line ——— Trail
  - Creek ——— Pond
  - Basestation △
  - Isomagnetic contours 100 200
  - VLF Contact ——— Q1

**INSTRUMENTATION**

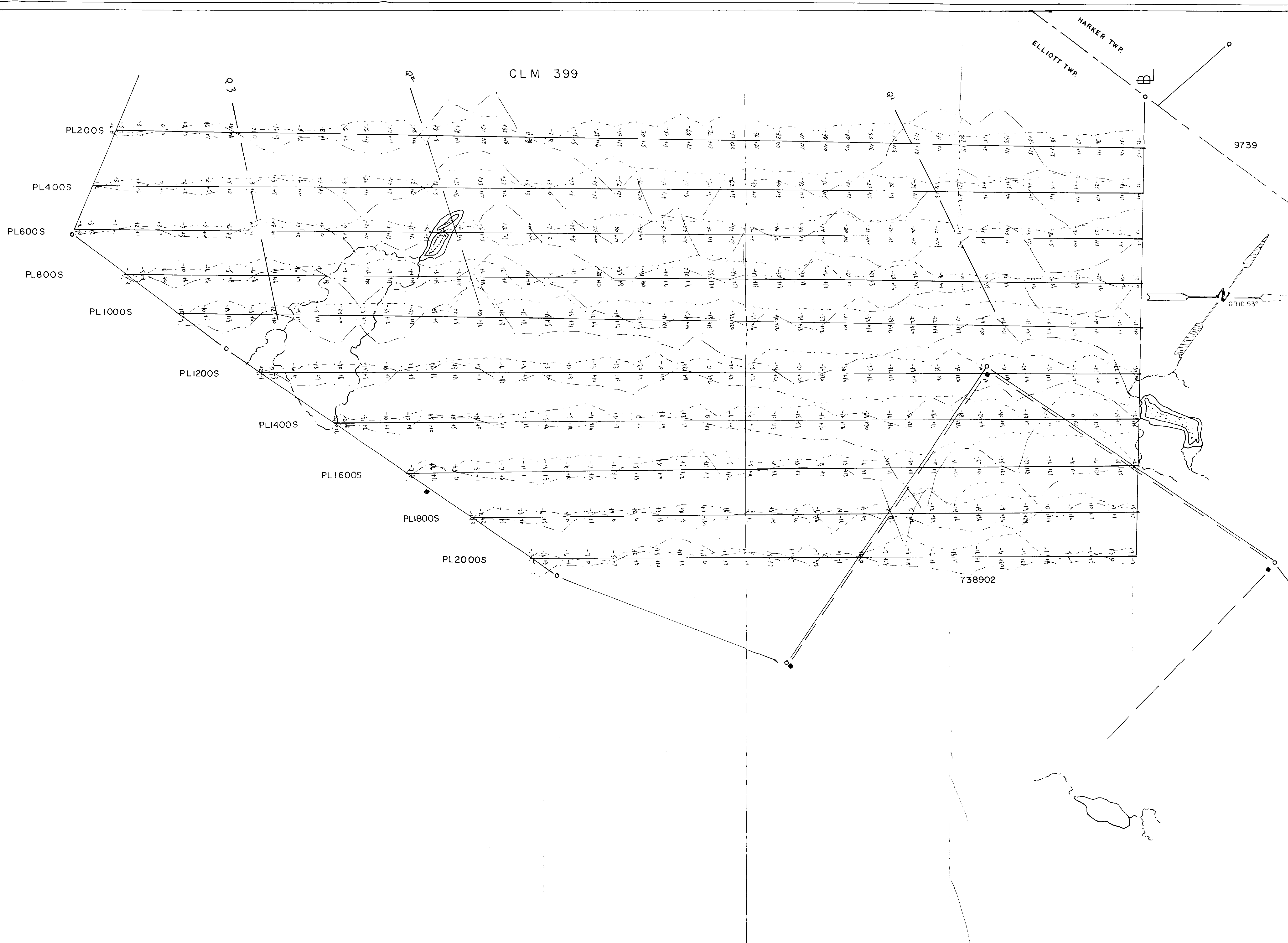
Instrument used McPhar GP8  
 Datum subtracted 57000 u

**GWEN RES.  
 IRIS 2001 GRID  
 GROUND MAGNETOMETER SURVEY  
 ELLIOTT AND HARKER TWP'S.**

SCALE 1" = 200'  
 200 0 200 400

Report by WKWaller  
 Map no. IR/2001/mab  
 Date 05/2001

*W. K. Waller*



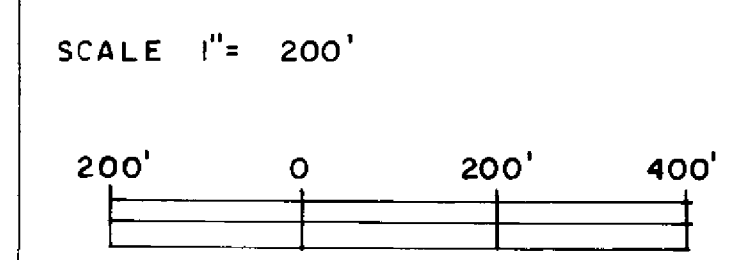
**SYMBOLS**

- Lease line
- Claim line
- Township line
- Pond
- Inphase
- Quadrature
- VLF Contact
- Pin
- Claim post
- Trail
- Creek

**INSTRUMENTATION**

Instrument used **GEONICS EM 16**  
 Station **Seattle**  
 Vertical scale **40%**

**GWEN RES  
 IRIS 200I GRID  
 GROUND VLF · EM SURVEY  
 HARKER AND ELLIOTT TWP'S**



Report by **WK Weller**

Map no **IR/200I/VLF**

Date **05 / 2001**

