REPORT ON THE PROSPECTING, GEOPHYSICAL AND GEOLOGICAL SURVEYING PROGRAM ON THE PROPERTIES OF TRINITY EXPLORATIONS BY PETER J. HAWLEY ASQUITH AND CHURCHILL TOWNSHIPS LARDER LAKE MINING DIVISION, ONTARIO

November 22, 1995
Val d'Or, Quebec

Peter J. Hawley, B.Eng, B.Sc.
Consulting Geologist, APGGQ.

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INTRODUCTION

Between July and October 1995, Peter J. Hawley completed an OPAP grant, comprised of grid establishment, prospecting, geophysical surveying (2 frequency VLF-EM, total field and vertical gradient magnetics) and geological mapping and sampling on three Trinity Exploration Properties, two of which are in Asquith and one in Churchill Township, Larder Lake Mining Division.

The properties lie in geological-geophysical environments that may contain Au in shears, base metal and precious metal mineralization. The 1995 exploration program tested the possibility of the existence of the above-mentioned mineralization and structures on the properties on surface outcrop exposure and in overburden covered areas.

PROPERTY LOCATIONS, ACCESS AND DESCRIPTION

Group 1

The Trinity Explorations Group 1 Property is located in the central northern sector of Asquith Township, (G-3206), Larder Lake Mining Division, Ontario. The project is comprised of one 4 unit claim, claim number 1205677, and one 3 unit claim, claim number 1205678, at a latitude of 47°33'30", and a longitude of 81°16', NTS Map Sheet 41P/11, Shining Tree Area. The claims are registered with the Office of the Mining Recorder at Kirkland Lake.

The property is situated along the southern edge of the village of Shiningtree with Provincial Highway 560 crossing the claims.

Topographic relief on the claims is moderate with good outcrop exposure throughout. The central southern sector of the property contains a small area of swamp.

Supplies, services and qualified manpower are available in the Shiningtree-Englehart area.

Group 2

The Group 2 property is located in the central northern sector of Asquith Township, (G-3206), Larder Lake Mining Division, Ontario. The project area is comprised of a two unit claim, claim number 1206579 (previously 1200713), and a nine unit claim, claim number 1206575 (previously 1200712), at a latitude of 47°34'30" and a longitude of 81°17', NTS Map Sheet 41P/11, Shiningtree area. The claims are registered with the Office of the Mining Recorder at Kirkland Lake.

The property is located 0.5 miles north of Group 1, 0.62 miles (1 km) northwest of Shiningtree. Access is by boat on West Shiningtree Lake.

The claims are surrounded by water with moderate topographic relief throughout. The extreme eastern sector of the property contains low swampy ground.

Supplies, services and qualified manpower are available in the Shiningtree-Englehart area.

Group 3

The Trinity Explorations Group 3 property is located in central southern Churchill Township, (G-3210), Larder Lake Mining Division, Ontario. The area is comprised of one unit, claim number 1200742 at a latitude of 47°35' and longitude 81°15', NTS Map Sheet 41P/11, Shiningtree area. The claim is registered with the Office of the Mining Recorder at Kirkland Lake.

The Group 3 property lies 0.75 miles northeast of Group 1, 1.25 miles north of Shiningtree. Access is obtained by Highway 560 which is situated 0.5 miles east of the claim.

Speed Lake is located in the northwest corner of the property with moderate topographic relief throughout the property. Outcrop exposure is fair in the western sector of the property.

Supplies, services and qualified manpower are available int he Shiningtree-Englehart area.

GEOLOGY AND MINERALIZATION

The geology underlying all 3 properties is presented on O.G.S. Precambrian Geology Map 2510 (1987), scale 1:50,000. The detailed geology of Groups 1 and 2 are shown on O.G.S. Map P.2312 (1979), scale 1 inch equals 1/4 mile and detailed geology for Group 3 is mapped on O.G.S. Map 2414 (1980). scale 1 inch equals 1/2 mile. These maps indicate that the 3 properties are underlain by west-northwest to northwest trending units of mafic metavolcanic rocks, intercalated with narrow intermediate or felsic metavolcanic rocks, and intruded by diabase dykes. The detailed geology of each group is discussed below:

Group 1

Ninety percent of Group 1 is underlain by northeast to north-northwest striking mafic metavolcanic flows, aphanitic to coarse grained, and pillows. Three narrow west-northwest trending units of felsic metavolcanic rocks are intercalated with the mafic metavolcanics in the southern part of the property. Four north-northwest striking and 2 northeast striking diabase dykes intrude the metavolcanic rocks. A synclinal axis crosses the northeast corner of the property. A possible splay, James Creek Fault, 1000 feet to the west, lies along the western border of the claim group.

Map 2510 shows that a shaft and gold occurrence lie on the property. This map calls the occurrence the E.A.M. Armstrong occurrence, but no information has been found on either the origin of the shaft or occurrence.

Group 2

Most of Group 2 is underlain by fine to coarse grained mafic metavolcanic flows and pillows, striking east to northeast. Two narrow units of intermediate metavolcanic lava flows and pillow lavas strike northwest in the south part of the property. Numerous diabase dykes cut the metavolcanic rocks. The Jesse James Fault Zone strikes northward through the eastern part of claim 1206575. Two fold axes, a syncline to the north, and an anticline to the south, trend northwest until the fault, across the eastern and southeastern boundaries.

The Steep (Vintage) Au-Cu-Pb-Zn Occurrence is located on claim 1206575. A five foot wide, 500-600 long shear zone in greenstone contains a 1-2 foot wide blue lenticular quartz vein carrying sphalerite, galena, chalcopyrite and very fine grained free gold.

Group 3

This one claim is underlain by north-northwest trending coarse-grained mafic metavolcanic flows, along an anticlinal axis. The east end of the 4 to 6 foot wide Discovery Vein of the Gosselin (McBride) Au Occurrence, crosses the western boundary, extending east-southeast for 1000 feet across the property. No assay results have been reported.

Four main types of precious/base metal mineralization exist on the properties or in the immediate vicinity. They include:

a) Au, Pb, Cu, $\pm$ Zn-Ni in quartz veins or stockworks within metavolcanic rocks.

   i) Steep (Vintage) Au-Cu-Pb-Zn Occurrence on claim 1206575 of Group 2. A shear zone, 5 feet wide and 500 to 600 feet long, contains a blue lenticular quartz vein with sphalerite, galena, chalcopyrite and free gold (up to 0.74 OPT)
   ii) Jesse James (Kayak, Saville, Bridge Hill) Au-Cu-Pb Occurrence, 2000 feet south of Group 2 is contained in an east-west, 5 to 12 inch quartz vein mineralized with chalcopyrite, pyrite, galena and high grade gold.
   iii) Clarke (Coulson) Au-Ni-Cu-Pb Occurrence, 1.5 miles, along strike, southwest of Group 2. Iron rich magnesium-calcium carbonate with pyrite and quartz stockwork, contains free gold.

b) Au in quartz veins within carbonate rich metavolcanic rocks.

   i) Gosselin (McBride) Au Occurrence. The 2300 foot long Discovery Vein strikes east-southeast across Group 3. (No assays reported). The 1.5 mile long Main Vein (0.21 OPT Au over 7.8 feet) strikes southeast near the southwest corner of Group 3.
   ii) McRae (Sullivan) Au Occurrence contains visible gold in quartz veins, 1600 feet southeast, along strike, of Group 2.

c) Au in sheared, fractured metavolcanic rocks.

i) Gibson Au Occurrence, 0.75 miles southeast along strike, from Group 2, is within sheared metavolcanic and metasedimentary rocks containing up to 0.09 OPT Au.
ii) Holding (Moore) Au Occurrence in quartz streaks within a 3 to 5 foot wide fracture zone, 1.5 miles along strike, southeast of Group 1. Assays of up to 0.07 OPT Au reported.
iii) Moore-McDonald (Seville) Au-Ag Occurrence, 6000 feet, along strike, southeast of Group 2. Several shear zones, totalling 60 feet in width are mineralized with pyrite, considerable gold was observed.
iv) Moore (Shiningtree) Au Occurrence lies 3,300 feet, along strike, southeast of Group 2. Assays of up to 0.03 OPT Au have been reported in silicified shear zones.

d) Ni, Cu±Zn in metavolcanic rocks associated with northeast trending fault zones, as in the Fort Knox discoveries, 4.5 miles east of Groups 1 and 2.

PREVIOUS WORK

Group 1 - claims 1205677 and 1205678

-1919-1934: E.B. James - trenching and stripping in the extreme southeast part of claim 1205678.

-1934-1935: Canyon Creek Mining Syndicate trenching and stripping in the extreme southeast part of claim 1205678.

-1971: Kayak Explorations - trenching and stripping in the extreme southeast part of claim 1205678.

-1971-1975: Midvale Explorations Ltd. - geology, prospectus writing, magnetic and VLF-EM surveys in the extreme south part of claim 1205678.

- 1975: H. Bergman and Goreda Investments - magnetic and VLF-EM surveys on extreme southeast part of claim 1205678.

- 1975: Steward Saville - magnetic and EM surveys on extreme southwest part of claim 1205678.

- 1975-1977: Kayak Explorations - geology, magnetic and EM surveys in the extreme southeast part of claim 1205678, 2 holes were drilled near the southern boundary.

1983-1988: Clinton Gunter - trenching and stripping on claim 1205678.

Group 2 - Claims 1206579 and 1206575.

- 1914: E. Streep - 100 foot shaft sunk in the central part of 1206579.

- 1937: Erie Canadian Mines - assays and prospectus in the central part of 1206579.
- 1966-1970: Holmes - trenching and stripping in the central part of 1206579.

- 1972: Holmes - trenching and stripping in the central part of 1206579.

- 1973-1974: Vintage Mines Ltd. prospectus, geology, EM survey and 6 drill holes in the central part of claim 1206579.

- 1979: W. Sullivan: 1 diamond drill hole in the central part of claim 1206579.

- 1981: Patino Mines Ltd. - geology and magnetic and EM surveys in the northeast corner of 1206579.

- 1983: Southgate Resources Ltd. 5 drill holes in the central part of 1206579.

- 1983-1987: W. Sullivan - trenching and stripping in the central part of the property.

- 1985: Southgate Resources Ltd. - geology and magnetic and EM surveys in the southern part of the property, 1 drill hole in the central part of claim 1206579.

- 1988: Teck Exploration Corp. - airborne EM survey and ground EM and magnetic surveys.

- 1989: Teck Exploration Corp. - geology and 2 drill holes in the extreme southern part of 1206579.

Group 3 - Claim 1200742.

- 1911: F. Gosselin - discovery of Au in quartz veins.

- 1912: V. Pakowsky - pitting, trenching, stripping and sampling.

- 1913-1918: Gosselin Gold Mines - sampling.

- 1928-1929: Gosselin Gold Mines - sampling and trenching.

- 1930's: McIntyre Porcupine Mines - trenching and sampling.

- 1937: Sylvanite Gold Mines - trenching and sampling.

- 1958-1959: Bolduc Mines Ltd. - sampling.

- 1973: Noranda Mines Ltd. - magnetic survey.

WORK PERFORMED AND METHODS USED

Prospecting Program

The prospecting was completed between August 14 and October 27, 1995 on the three properties, which comprises of 16 miles of traverses.

This program was completed to define the position and extent of any outcrop exposure and to map topographic features such as roads, trails, lakes, tree types, etc. with respect to claim posts.

The results of the prospecting provided information which helped define the location to cut the grid. Maps Groups 1, 2, and 3 - PG, contains the data collected by the prospecting program, including traverses, claim posts, outcrops, topographic features and tree types at a scale of 1 inch equals 200 feet. The traverses were run north-south on all 3 groups.

Grid Establishment

A total of 7.53 miles of grid was cut on Groups 1, 2, and 3 during the summer and fall of 1995. Because of the strike of the geology, contacts and structures, grids were cut north-south along east-west base lines and tie lines. Cross lines were cut at 400 foot intervals, chained and picketed at 100 foot intervals.

Magnetometer Survey

Total field and vertical gradient magnetic surveys were performed on the cross lines. A total of 6.05 miles of data was collected on the 3 groups representing approximately 340 stations was collected during August and October, 1995 at 100 foot stations

along the cross lines. In areas of high magnetic responses the sample density was increased to one reading every 50 feet.

The magnetic surveys were performed to collect data which will help define contacts between rock units of varying magnetic content and delineate the locations of potential fault zones.

The magnetic surveys were conducted using two GEM GSM-8 proton precession magnetometers, with a vertical separation of 5 feet. Readings were taken simultaneously at 50 and 100 foot intervals along the cross lines. The GSM-8 magnetometer measures the total field intensity of the earth's total field in gammas. It has a sensitivity and repeatability of one gamma or better.

The vertical gradient was calculated using the formula (S2-S1)/5 S1 is the reading produced by the top sensor, (in gammas) S2 is that of the bottom, and 5.0 feet is the distance between the sensors. This formula reduces the data per foot. These values were plotted on the vertical gradient maps Groups 1, 2, 3 - G at a scale of 1 inch equals 200 feet (1:2400). The data was then contoured at appropriate intervals.

For the total field measurements, the lower sensor (S2) was read. Base stations for determining the magnetic diurnal variations were established at various locations along the base line. The total field readings, corrected for diurnal variations were plotted on the total field maps Groups 1, 2, 3 - M. All readings are 58,000 gammas plus plotted values. The total field values were contoured at appropriate intervals.

The data obtained from a vertical gradient survey has certain advantages over the data from a total field survey. A gradient survey has greater sensitivity to near surface sources. The resolution of a vertical gradient survey is approximately 30% greater than that of a total field. Composite vertical gradient anomalies can be resolved into their individual components. This leads to accurate mapping of lithologic contacts. A contact is defined as a zero contour. Also, from the gradient data and magnetic susceptibility, magnetic moment, depth and source geometry may be calculated. The effect of magnetic storms and diurnal

variations, that are important in total field data reduction, are automatically removed during a vertical gradient survey.

VLF-Electromagnetic Surveys

The two frequency VLF-electromagnetic surveys were completed with a Geonics EM-16 unit. A total of 6.05 miles of data was collected at 320 stations, 100 feet apart along the cross lines, during August and October 1995. The VLF-electromagnetic survey uses powerful radio transmitters set-up in different parts of the world for military communications. Relative to frequencies generally used in geophysical exploration, this frequency is considered high. These powerful waves induce electrical currents in conductive bodies thousand of miles away. The induced currents then produce secondary magnetic fields which are detected at surface through deviations of the normal VLF field. This secondary field from the conductor is added to the primary field vector, so that the resultant field is tilted up on one side of the field vector, and down on the other side. The VLF receiver measures the field tilt with the in-phase and quadrature components of the vertical magnetic field as a percentage of the horizontal primary field (i.e. the tangent of the tilt angle and elipticity). The EM-16 has a repeatability and sensitivity of 1%.

Because of the regional trend of the underlying rock units and cross-cutting fault zones, two frequencies were read, using Cutler, Maine, (NAA), frequency 24.0 kHz and Annapolis, Maryland, (NSS), frequency 21.4 kHz.

Interpretation of the results is quite simple. The conductor is located at the inflection point marked by the crossover from positive tilt (vertical in-phase) to negative tilt. The main advantage of the VLF method is that it responds well to poor conductor and has proved a reliable tool in mapping faults-shear zones, conductive mineralization and rock contacts. The major disadvantage is that because of the high frequency of the transmitted wave a multitude of anomalies from unwanted sources such as swamp edges, creeks and topographic highs may be delineated. So some amount of care must be taken in interpreting

the results in certain areas displaying these topographical features.

The VLF-EM data was plotted on Maps Group 1, 2, and 3-C for Cutler and Groups 1, 2, and 3-A for Annapolis at scales of 1 inch equals 200 feet. The values were then profiled at a scale of 1 cm equals 20% using a Uninex computer, NovaJet III Jet Ink Plotter and Geosoft software. The conductor axes were determined and labelled C-1, C-2, and C-3 etc. for Cutler and A-1, A-2, A-3 etc. for Annapolis. No priority or significance was used for labelling.

Geological Mapping and Sampling Program

All outcrop exposure found on the properties were mapped and any mineralization-alteration was sampled. A total of 22 samples were assayed for gold, and 1 for zinc and copper. Assay results and sample descriptions are presented in Appendices 1 and 2. All of the 22 samples collected were grab samples. The assays were conducted at Bourlamaque Assay Labs., using the fire assay method for precious metals analyses in oz/ton and atomic absorption for the Cu analysis in percent.

The results of the mapping and sampling program are shown on Maps Groups 1, 2, 3-PG at a scale of 1 inch equals 200 feet.

SURVEY RESULTS AND INTERPRETATION

Magnetometer Surveys

The data collected by the total field and vertical gradient magnetic surveys on the three groups has produced numerous northwest, north and east trending isogams. The results and interpretations of the magnetic responses are discussed below.

Group 1

The total field magnetics data has produced a very strong northwest trending isogam which traverses through the central portion of the property. This response is interpreted to represent a diabase dyke which contains a high concentration of magnetic minerals.

The vertical gradient response correlates with the total field signature and shows a northwest trend which outlines an interpreted diabase dyke.

Group 2

The data collected by the total field magnetics has outlined northwest and northeast trending magnetic high isogams. In the extreme northwest sector of the surveyed area a strong magnetic high response is interpreted to represent a mafic flow unit.

Trending from the southwest corner of the property in a northeasterly direction a very strong magnetic high trend is seen. This response is interpreted to represent a mafic volcanic unit.

On line 20E the magnetic high signature show easterly and northwesterly breaks in the contour pattern which are interpreted to represent shear zones which may be mineralized. On L28E in the northern sector a northeasterly trending magnetic high trend is interpreted to represent a mafic volcanic unit.

The vertical gradient data collected shows an almost identical response as that of the total field magnetics. In the extreme northwest corner the gradient values are interpreted to represent a mafic flow unit. The northeast trending signature seen in the southwest area of the claim group is thought to represent an irregular mafic volcanic unit. Disruption in the zero contour pattern on line 20E, near the base line implies northwest and east trending shear zones which may have displaced the mafic unit.

Group 3

The total field magnetic data shows a uniform east-west magnetic trend with no outstanding responses. This response is interpreted to represent uniform intermediate-mafic volcanics underlying the survey area.

The vertical gradient data defines an east-southeast zero trend in the southern sector of the property. This may represent a contact between mafic and intermediate volcanic units.

<u>VLF-Electromagnetic Surveys</u>

The axis of 11 northwest, west and northeast trending conductive zones were delineated on the three claim groups by the

data collected using the transmitting stations of Cutler, Maine (24.0 kHz) and Annapolis, Maryland, (21.4 kHz).

Conductive zones, length, description and possible causes of each zone within each group are presented on the following pages.

Group 1

Cutler, Maine (24.0 kHz)

Zone	Length	Description and Possible Cause
C-1	1600 ft.	A three line, broken, weak response, northwest trending conductive zone which is interpreted to represent the contact between a diabase dyke and mafic volcanic units which may be mineralized.
C-2	600 ft.	A two line, linear, strong response, northeast trending conductive zone which is interpreted to represent the topographical effect of a cedar swamp.

Annapolis, Maryland (21.4 kHz)

Zone	Length	Description and Possible Cause
A-1	340 ft.	A one line, strong response, northwest trending conductive zone which is interpreted to represent an electric hydro line.
A-2	250 ft.	A one line, weak response, northwest trending conductive zone which is interpreted to represent the topographical effect of a cedar swamp.

Group 2

Cutler, Maine (24.0 kHz)

Zone	Length	Description and Possible Cause
C-1	1020 ft.	A three line, linear, strong response, northwest trending conductive zone which is interpreted to represent the contact between a diabase dyke and mafic volcanic units which may be mineralized.
C-2	2250 ft.	A six line, linear, moderate-strong response, west-northwest trending conductor which is thought to represent a contact between intermediate and mafic volcanics which may be sheared and mineralized.
C-3	1130 ft.	A three line, linear, weak response, west-northwest trending conductive zone as described above.
C-4	1480 ft.	A three line, broken, weak-moderate response, west trending conductive zone which is thought to represent the contact between a diabase dyke and intermediate volcanics which may be mineralized.

Annapolis, Maryland (21.4 kHz)

Zone	Length	Description and Possible Cause
A-1	1150 ft.	A three line, linear, weak-moderate response, west-northwest trending conductive zone which is thought to represent the contact between mafic and intermediate volcanics which may be sheared and mineralized.

Group 3

Cutler, Maine (24.0 kHz)

Zone	Length	Description and Possible Cause
C-1	550 ft.	A two line, linear, weak response, west-northwest trending conductive zone which is interpreted to represent intermediate volcanics to the north and mafic volcanics to the south.

Annapolis, Maryland (21.4 kHz)

Zone	Length	Description and Possible Cause
A-1	240 ft.	A one line, moderate response, east-northeast trending conductive zone which is thought to represent a topographic effect such as wet ground.

Prospecting, Geological Mapping and Sampling Programs

The results of the prospecting program showed that outcrop exposure on the three Trinity Explorations properties in Asquith and Churchill Townships is moderate and helped to locate grid line locations and outcrop and workings locations.

The **Group 1 Property** (Map Group 1-PG) is comprised of a northwest trending diabase dyke, glomerophyritic near its outer edges. This dyke dips approximately 80° to the northeast and cross cuts all stratigraphy. Intercalated felsic-intermediate-mafic metavolcanic rocks comprise the rest of the property trending generally westerly, dipping mainly south. Mineralization appears to be confined to the contacts between the diabase dyke and felsic volcanics and appears as hydrothermal quartz veins and veinlets with minor pyrite mineralization. A total of 7 grab samples of mineralization were taken with two samples reporting 0.003 and 0.037 OPT Au. Old workings viewed, appear to be confined to the diabase dyke or the contact between the dyke and volcanics. No mineralization was seen within the old workings.

The **Group 2 Property** was accessed by boat from the 3 Bears Outfitters Camp. The property consists of diabase, intermediate and mafic metavolcanic flows. Diabase units seen are confined to the western and central portion of the surveyed area and strike north-northwest. The intercalated intermediate and mafic metavolcanic flows strike generally east to west and dip 70° south.

Mineralization seen on the property was located in old workings such as trenches and pits. On 12E, in the northern sector a series of trenches with various orientations were sunk on an east-west trending shear which dips 76°south. The shear zone between pillowed and massive intermediate metavolcanics is comprised of quartz with fine disseminated pyrite. Grab sample 9557 of the quartz shear zone reported 0.30 OPT Au. In the general vicinity of the trenches an old camp with a core dump is present. Numerous other pits, trenches and rubble containing mineralization returned trace gold values. One sample, 9559, of basalt/gabbro sheared and brecciated with 1-2% sulphides with trace chalcopyrite reported trace gold, 110 ppm Cu, and 70 ppm Ni.

The **Group 3 Property** has a moderate amount of rock exposure in the western sector of the surveyed area. The southern portion of the property contains massive mafic metavolcanics with the central northern portion with massive intermediate metavolcanic flow units. A small, barren north-northwest trending slip fault was viewed with a displacement of 3 feet between pillowed and massive intermediate flows. On the centre of Line 0 four old trench working were discovered. One trench shows a quartz vein about 6 inches in width visible for 60 feet in length. The veining is iron stained and a fresh broken surface shown to contain 5-10% cubric pyrite. Two samples taken in this general trenched area of mineralization reported trace gold values.

CONCLUSIONS AND RECOMMENDATIONS

The data collected by the 1995 prospecting, geological and geophysical surveys over the three groups of claims of Trinity Explorations in Asquith and Churchill Townships has proven

successful in outlining geophysical responses which correlate with geological units, mineralization and structures viewed. The total field and vertical gradient magnetic signatures display strong correlation between diabase, felsic, intermediate and mafic metavolcanic units. The electromagnetic surveys outline geological contacts, some of which are sheared and proven to be mineralized. Prospecting and geological traverses have outlined numerous old trenches, pits and workings over mineralized contacts.

The mineralization consisting mainly of trace-6% pyrite is hosted in quartz veining, usually injected along a sheared contact. Of 22 grab samples collected of various mineralized showings, two reported 0.30 and 0.037 OPT Au.

It is recommended that old workings be cleaned out and the mineralized zone be channel sampled to present representative samples. Areas showing corresponding electromagnetic signatures and known mineralization should be stripped over the entire length and width where possible. The results of the stripping and sampling may warrant further diamond drilling program.

Respectfully submitted,

November 22, 1995
Val d'Or, Quebec

Peter J. Hawley, B.Eng, B.Sc.
Consulting Geologist, APGGQ.

REFERENCES

Carter, M.V., 1980,

Ontario Geological Survey Report 190. Geology of Connaught and Churchill Townships, District of Sudbury, Map 2414, scale: 1 inch equals 1/2 mile.

Carter, M.V., 1979

Asquith Township, District of Sudbury, O.G.S. Preliminary Map P 2312, Geological Series, scale: 1 inch 1/4 mile.

Lovell, H.L., deGrigs, Jan, and Ploeger, F., 1977

Ontario Geological Survey Preliminary Map 1219. Asquith Township, scale: 1 inch equals 1/4 mile.

Geological Data Inventory Folio GD 1F567

Asquith Township, Larder Lake Mining Division, Ministry of Northern Development and Mines.

APPENDIX 1

ASSAY CERTIFICATES

C.P. / P.O. 550 148, AVENUE PERREAULT VAL D'OR (QUÉBEC) J9P 4P5 TÉL.: (819) 824-4337 FAX: (819) 824-4745

LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE
BOURLAMAQUE ASSAY LABORATORIES LTD.

CERTIFICAT D'ANALYSES
CERTIFICATE OF ANALYSIS

Nº 65543

Peter Hawley

PN- Shinning Tree Area

ÉCHANTILLONS / SAMPLES: Rock

REÇU DE / RECEIVED FROM: Peter Hawley

VAL D'OR (QUÉBEC): November 3, 19 95

ANALYSES / ASSAYS: 22 Au

Echantillon	Au oz/t
9551	0.001
9552	Trace
9553	Trace
9554	Trace
9555	Trace
9556	Trace
9557	0.300
9558	Trace
9559	Trace
9560	0.003
9561	Trace
9562	Trace
170876	Trace
170877	Trace
170878	Trace
170879	Trace
170880	0.003
170881	Trace
170882	0.037
170883	Trace
170884	Trace
170885	Trace

N.B. Cu, Zn to follow for sample #9559.

C.P. / P.O. 550 148, AVENUE PERREAULT VAL D'OR (QUÉBEC) J9P 4P5 TÉL.: (819) 824-4337
FAX: (819) 824-4745

LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

BOURLAMAQUE ASSAY LABORATORIES LTD.

CERTIFICAT D'ANALYSES
CERTIFICATE OF ANALYSIS

Nº 65636

Peter Hawley

PN- Shinning Tree Area

ECHANTILLONS SAMPLES: Rock Réf. cert.#65543

REÇU DE RECEIVED FROM: Peter Hawley

VAL D'OR (QUÉBEC): November 3, 19 95

ANALYSES ASSAYS: 1 Cu, 1 Ni Geochemical

Echantillon	Cu ppm	Ni ppm
9559	110	70

ANALYSTE - ASSAYER

APPENDIX 2 - SAMPLE DESCRIPTIONS

Sample Number	Type	Description	Assay OPT
9551	Grab	Basalt, highly sheared, carbonatized, trace sulphides.	0.001 Au
9552	Float	Quartz, white, angular, minor carbonate, trace cpy.	Trace
9553	Grab	Basalt, moderate to strongly sheared, strong carbonatization, 20% quartz and carbonate veinlets.	Trace
9554	Grab	Quartz, white, 0.5 feet wide, no apparent sulphides.	Trace
9555	Rubble Grab	Quartz, white and 10% host rock fragments, which contain 1% py. and 1% arsenopyrite: from moss covered excavation rubble.	Trace
9556	Grab	Andesite, sheared and carbonitized wall rock on the north side of trench 1% euheddral pyrite.	Trace
9557	Rubble Grab	Quartz, glassy to smoky grey and white, no apparent sulphur: from rubble on the south side of trench.	0.30
9558	Float	Quartz, 2-3% finely disseminated py. angular: rubble from large nearby pit/trench.	Trace
9559	Rubble Grab	Basalt/gabbro, sheared and brecciated with irregular quartz veining, 1-2% sulphide, trace cpy., rubble from old workings.	Trace 110 ppm Cu 70 ppm Ni

9560	Rubble Grab	Quartz vein rubble (from old workings?), 1-2% pyrite.	0.003
9561	Grab	Quartz vein, white, 1.5 to 2.0 feet wide hosted in sheared basalt.	Trace
9562	Grab	Quartz vein, $\geq$ 2.0 feet wide, trace to 1% irregularly disseminated py.	Trace
170876	Grab	Intermediate metavolcanics, flow, fine grained, 1-3% pyrite.	Trace
170877	Grab	6 inch quartz vein in medium grained basalt, no sulphides.	Trace
170878	Grab	1 foot quartz bleb, hematite stained, in diabase.	Trace
170879	Grab	8 inch blue quartz vein, trace pyrite, in laminated basalt. Exposed for over 15 feet.	Trace
170880	Grab	West end of a 1 foot wide blue quartz vein in fractured basalt.	0.003
170881	Grab	Felsic metavolcanics, siliceous, foliated and fine-grained, 1-2% fine grained pyrite.	Trace
170882	Grab	15 foot wide siliceous felsic metavolcanic zone with quartz blebs in small pit, 2-10% pyrite and trace chalcopyrite.	0.037
170883	Grab	Quartz vein in rubble pile within old stripped area. Iron stained and 5-10% cubic pyrite. Vein is 6 inches wide and 60 foot long.	Trace

170884	Grab	2 inch to 4 inch wide quartz veins in an old trench in felsic metavolcanics, trace pyrite.	Trace
170885	Grab	Felsic metavolcanics in footwall of quartz vein exposed in an old trench.	Trace

Ministry of Northern Development and Mines

Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9580.00775

Vintage Gold Prospect

Cobalt-Res. Geol.

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

Instructions:
- Please type or print and submit in duplicate
- Refer to th... ...sment work or consult the Mining Recorder.
- A separate...
- Technical...
- A sketch, ... this form.

41P11SW0014 2 16292 CHURCHILL 900

2.16...

Recorded Holder(s): 2973096 Canada Inc.	Client No.: 300,337
Address: 152, chemin de la Mine École, Val d'Or, Québec J9P 4N7	Telephone No.: (819) 824-6149
Mining Division: Larder Lake / Township/Area: ASQUITH	M or G Plan No.: G-3206
Dates Work Performed From: Oct. 14, 1995	To: Nov. 3, 1995

Work Performed (Check One Work Group Only)

	Work Group	Type
✓	Geotechnical Survey	Magnetic (total field, vertical gradient); VLF-EM (NAA & NSS); Geological mapping, Prospecting, Sampling
	Physical Work, Including Drilling	
	Rehabilitation	RECEIVED
	Other Authorized Work	DEC - 8 1995
	Assays	MINING LANDS BRANCH
	Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs $ ~~7,071.60~~ 7072.

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Peter Hawley	c/o H. Ferderber Geophysics Ltd. 169 ave. Perrault, Val d'Or, Québec J9P 2H1

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date: Nov. 29, 95	Recorded Holder or Agent (Signature): [signature]

Certification of Work Report

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

Name and Address of Person Certifying: Glenn J. Mullan (as above)		
Telephone No.: (819) 824-6149	Date: Nov. 29, 1995	Certified By (Signature): [signature]

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
$7072.	Nov 1/95	[signature]	RECEIVED LARDER LAKE MINING DIVISION DEC 1 1995
	Deemed Approval Date: Feb. 29/96	Date Approved	
	Date Notice for Amendments Sent		

0241 (03/91)

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
W9580.00775	L-120535	9	5786.	7072.		
	L-120536	2	1286.	NIL	1286.	
			2.1629			
Total Number of Claims: 2			Total Value Work Done: 7072.	Total Value Work Applied: 7072.	Total Assigned From: 1286.	Total Reserve

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DEC - 8 1995
MINING LANDS BRANCH

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☑ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: **Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.**

Note 2: **If work has been performed on patented or leased land, please complete the following:**

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date

2.16292

2.1629

Statement of Costs - "Vintage Gold Prospect"

Asquith Township - Ontario

Fall Program, 1995

Item (Description):	Cost:
A) *Direct Field Costs:* ($5893)	
- linecutting (4 miles @ $350 mile - GST)	= $1498
- prospecting (2 men. 2 days each)	= $600
- geophysical surveys: VLF-EM (NAA & NSS) Geonics EM-16	= $1000
- geophysical surveys: Magnetic (total field & vertical gradient) base station and portable unit: GEM Systems "GSM-8"	= $1000
- geological mapping & sampling (geologist - assistant)	= $1000
- final summary report (1 day)	= $300
- 13 rock sample assays	= $195
- drafting fees for 5 maps	= $200
- drafting supplies for sketches and field maps	= $50
- consumeables (flagging tape. sample bags. topofil. etc.)	= $50
B) *Support Costs:* ($1855)	
- vehicle mileage (400 km @ .30 km)	= $120
- food & accommodation (10 days)	= $1500
- ATV rental (1 week)	= $100
- boat rental (1 week)	= $100
- GPS rental (1 week)	= $35

Total Allowable For Assessment Credits: $5.893 * 20% ($1178.60) = $7,071.60

Total Claimed: ***$7,071.6***

The above cost statement has been compiled from information provided by the authors of the report at my request.

Yours truly,

Glenn J. Mullan
November 29th. 1995

Ministère du Développement du Nord et des Mines
Ontario

Rapport sur les travaux exécutés après l'enregistrement d'un claim

Loi sur les mines

N° de transaction: W9580.00776

Cobalt-Res. Steel

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à la correspondance. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5; téléphone : (705) 670-7264.

Directives :
- Dactylographier ou écrire en lettres moulées.
- Se reporter à la Loi sur les mines et aux règlements pour connaître les directives de dépôt des travaux d'évaluation ou consulter le registrateur de claims.
- Remplir une formule pour chaque groupe de travaux.
- Joindre à la présente formule deux exemplaires des rapports techniques et des cartes.
- Joindre à la présente formule une esquisse indiquant les claims ayant fait l'objet des travaux.

2.16292

Titulaire(s) enregistré(s): Glenn J. Muller		N° de client: 173700
Adresse: 152, ch. de la Mine École, Val d'Or, Québec J9P 4N7		N° de téléphone: (819) 824-6149
Division des mines: Larder Lake	Canton/secteur: Churchill	N° de plan M ou G: G-3210
Dates d'exécution des travaux: du : July 15, 1995	au : September 30, 1995	

Travaux exécutés (cocher un seul groupe de travaux)

	Groupe de travaux	Genre
✓	Levé géotechnique	Magnetic (total field & vertical gradient); VLF-EM (NAA+NSS); Geological Mapping + Prospecting
	Travaux physiques, y compris forage	
	Réhabilitation	
	Autres travaux autorisés	
	Essais	
	Valeur transférée de la réserve	

Total des travaux d'évaluation réclamé sur le relevé des frais ci-annexé: ~~$2,089.50~~ 2010, $

Nota : Le ministre peut rejeter une partie ou la totalité des travaux d'évaluation présentés pour obtenir des crédits d'évaluation si le titulaire enregistré ne peut vérifier les dépenses réclamées sur le relevé des frais dans les trente jours suivant une demande de vérification.

Les personnes et la compagnie d'arpentage qui ont exécuté les travaux (donner le nom et l'adresse de l'auteur du rapport)

Nom	Adresse
Peter Hawley	c/o H. Fowlerton Geophysics Ltd., 169 ave. Perreault, Val d'Or, Québec

RECEIVED
DEC - 8 1995
MINING LANDS BRANCH

(Joindre une annexe au besoin)

Certification d'intérêt bénéficiaire • Voir la note n° 1 au verso

Je certifie qu'au moment où les travaux ont été exécutés, les claims dont il est question dans le présent rapport étaient enregistrés au nom de leur titulaire actuel ou détenus à titre bénéficiaire par l'actuel titulaire enregistré.	Date: Nov. 28, 1995	Titulaire enregistré ou représentant (Signature)

Certification du rapport sur les travaux exécutés

Je certifie que j'ai une connaissance directe des faits exposés dans le présent rapport, pour avoir exécuté les travaux ou en avoir constaté l'exécution avant ou après leur achèvement. Je certifie aussi que le rapport ci-annexé est exact.

Nom et adresse du certificateur: G. Muller (as above)

N° de téléphone	Date	Certifié par (signature)
(819) 824-6149	Nov. 28, 1995	

Réservé au ministère

Valeur totale des crédits enregistrés	Date d'enregistrement	Registrateur de claims	Cachet reçu
$2010.	Dec 1/95 DM		MINING DIVISION DEC 1 1995
	Date de l'approbation prévue: Feb. 29/96	Date d'approbation	
	Date d'envoi de l'avis de modification		

W9580.00776

Numéro de rapport sur les travaux exécutés pour l'affectation de la réserve	Numéro de claim	Nombre d'unités	Valeur des travaux d'évaluation exécutés sur ce claim	Valeur affectée à ce claim	Valeur transférée de ce claim	Réserve : travaux à réclamer à une date ultérieure
	L-1200742	1	~~$2,009.50~~ 2010.	~~$2009.50~~ 2010.		
		2.16292				
	Nombre total de claims 1		**Valeur totale des travaux exécutés** ~~$2009.50~~ 2010.	**Valeur totale des travaux qui a été affectée** ~~$2009.50~~ 2010	**Total transféré**	**Réserve totale**

RECEIVED
DEC - 8 1995
MINING LANDS BRANCH

0241 (05/91)

Les crédits que vous réclamez dans le présent rapport peuvent être réduits. Afin de diminuer les conséquences défavorables de telles réductions, veuillez indiquer l'ordre dans lequel vous désirez qu'elles soient appliquées à vos claims. Veuillez cocher (✓) l'une des options suivantes :

1. ☐ Les crédits doivent être réduits en commençant par le dernier claim sur la liste.
2. ☑ Les crédits doivent être réduits également entre tous les claims figurant dans le présent rapport.
3. ☐ Les crédits doivent être réduits selon l'ordre donné en annexe.

Si vous n'avez pas choisi d'option, la première sera appliquée.

Note 1 : Exemples d'intérêts bénéficiaires : cessions non enregistrées, ententes sur des options, protocoles d'entente, etc. relatifs aux claims.

Note 2: Si des travaux ont été exécutés sur un terrain faisant l'objet de lettres patentes ou d'un bail, veuillez remplir ce qui suit:

Je certifie que le titulaire enregistré possédait un intérêt bénéficiaire sur le terrain faisant l'objet de lettres patentes ou d'un bail, au moment où les travaux ont été exécutés.	Signature	Date

W9580.00776

Statement of Costs - "Vengeance Prospect"

Churchill Township - Ontario

Summer - Fall Program, 1995 2.16292

Item (Description):	Cost:
A) Direct Field Costs: **($1704.50)**	
- linecutting (1 miles @ $350/mile + GST)	= $374.5
- prospecting (2 men, 1 day each)	= $300
- geophysical surveys: VLF-EM (NAA & NSS) Geonics EM-16	= $200
- geophysical surveys: Magnetic (total field & vertical gradient) base station and portable unit: GEM Systems "GSM-8"	= $200
- geological mapping & sampling (geologist + assistant)	= $400
- 2 rock sample assays	= $30
- drafting fees for 5 maps	= $100
- drafting supplies for sketches and field maps	= $50
- consumeables (flagging tape, sample bags, topofil, etc.)	= $50
B) *Support Costs:* **($305)**	
- vehicle mileage (400 km @ .30/km)	= $120
- food & accommodation	= $150
- ATV rental (1 day)	= $25
- GPS rental (1 week)	= $10

Total Allowable For Assessment Credits: $1,704.50 + $305 = $2,009.50

Total Claimed: ***$2,009.50***

The above cost statement has been compiled from information provided by the authors of the report at my request.

Yours truly,

Glenn J. Mullan
November 29th, 1995

Ministère du Développement du Nord et des Mines

Ontario

Rapport sur les travaux exécutés après l'enregistrement d'un claim

Loi sur les mines

Private Property

N° de transaction: W9580.00777

Cobalt - Res. Area.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à la correspondance. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5; téléphone : (705) 670-7264.

Directives :
- Dactylographier ou écrire en lettres moulées.
- Se reporter à la **Loi sur les mines** et aux règlements pour connaître les directives de dépôt des travaux d'évaluation ou consulter le registrateur de claims.
- Remplir une formule pour chaque groupe de travaux.
- Joindre à la présente formule deux exemplaires des rapports techniques et des cartes.
- Joindre à la présente formule une esquisse indiquant les claims ayant fait l'objet des travaux.

2.16292

Titulaire(s) enregistré(s)		N° de client
Glenn J. Mullan		173,700
Adresse		**N° de téléphone**
152 ch. de la Mine École Val d'Or, Québec J9P 4N7		(819) 824-6149
Division des mines	**Canton/secteur**	**N° de plan M ou G**
Larder Lake	ASQUITH	G-3206
Dates d'exécution des travaux du : July 15, 1995	au : August 30, 1995	

Travaux exécutés (cocher un seul groupe de travaux)

	Groupe de travaux	Genre
✓	Levé géotechnique	Magnetic (total field & vertical gradient); VLF-EM (NAA+NSS); Geological Mapping & Prospecting
	Travaux physiques, y compris forage	
	Réhabilitation	
	Autres travaux autorisés	
	Essais	
	Valeur transférée de la réserve	

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MINING LANDS BRANCH

Total des travaux d'évaluation réclamé sur le relevé des frais ci-annexé $6514.00 $

Nota : Le ministre peut rejeter une partie ou la totalité des travaux d'évaluation présentés pour obtenir des crédits d'évaluation si le titulaire enregistré ne peut vérifier les dépenses réclamées sur le relevé des frais dans les trente jours suivant une demande de vérification.

Les personnes et la compagnie d'arpentage qui ont exécuté les travaux (donner le nom et l'adresse de l'auteur du rapport)

Nom	Adresse
Peter Hawley	H. Fairbairn Geophysics Ltd., 169 ave. Perreault Val d'Or, Québec J9P 2H1

(Joindre une annexe au besoin)

Certification d'intérêt bénéficiaire * Voir la note n° 1 au verso

Je certifie qu'au moment où les travaux ont été exécutés, les claims dont il est question dans le présent rapport étaient enregistrés au nom de leur titulaire actuel ou détenus à titre bénéficiaire par l'actuel titulaire enregistré.	Date	Titulaire enregistré ou représentant (Signature)
	Nov. 28, 1995	

Certification du rapport sur les travaux exécutés

Je certifie que j'ai une connaissance directe des faits exposés dans le présent rapport, pour avoir exécuté les travaux ou en avoir constaté l'exécution avant ou après leur achèvement. Je certifie aussi que le rapport ci-annexé est exact.

Nom et adresse du certificateur		
G. Mullan (as above)		
N° de téléphone	**Date**	**Certifié par (signature)**
(819) 824-6149	Nov. 28, 1995	

Réservé au ministère

Valeur totale des crédits enregistrés	Date d'enregistrement	Registrateur de claims	Cachet reçu
$6514.	Dec 1/95		RECEIVED LARDER LAKE MINING DIVISION DEC 1 1995
	Date de l'approbation prévue: Feb. 29/96	Date d'approbation	
	Date d'envoi de l'avis de modification		

0241 (05/91)

W4580.00777

Numéro de rapport sur les travaux exécutés pour l'affectation de la réserve	Numéro de claim	Nombre d'unités	Valeur des travaux d'évaluation exécutés sur ce claim	Valeur affectée à ce claim	Valeur transférée de ce claim	Réserve : travaux à réclamer à une date ultérieure
	L-1205677	1	$ ~~1628.55~~ 1629.55	$ ~~1628.55~~ 1629.55		
	L-1205678	3	$4885.55	$4885.55		
	2.16292					
Nombre total de claims	2					
Valeur totale des travaux exécutés			$6514.[illegible]			
Valeur totale des travaux qui a été affectée				$6514.[illegible]		
Total transféré						
Réserve totale						

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DEC - 8 1995
MINING LANDS BRANCH

Les crédits que vous réclamez dans le présent rapport peuvent être réduits. Afin de diminuer les conséquences défavorables de telles réductions, veuillez indiquer l'ordre dans lequel vous désirez au'elles soient appliquées à vos claims. Veuillez cocher (✓) l'une des options suivantes :

1. ☐ Les crédits doivent être réduits en commençant par le dernier claim sur la liste.
2. ☑ Les crédits doivent être réduits également entre tous les claims figurant dans le présent rapport.
3. ☐ Les crédits doivent être réduits selon l'ordre donné en annexe.

Si vous n'avez pas choisi d'option, la première sera appliquée.

Note 1 : Examples d'intérêts bénéficiaires : cessions non enregistrées, ententes sur des options, protocoles d'entente, etc. relatifs aux claims.

Note 2: Si des travaux ont été exécutés sur un terrain faisant l'objet de lettres patentes ou d'un bail, veuillez remplir ce qui suit:

Je certifie que le titulaire enregistré possédait un intérêt bénéficiaire sur le terrain faisant l'objet de lettres patentes ou d'un bail, au moment où les travaux ont été exécutés.	Signature	Date

0241 (05/91)

W9580.00777

Statement of Costs - "Village Prospect"

Asquith Township - Ontario

Summer - Fall Program, 1995

2.16292

Item (Description):	Cost:
A) Direct Field Costs: **($5428.50)**	
- linecutting (3 miles @ $350/mile + GST)	= $1123.5
- prospecting (2 men, 2 days each)	= $600
- geophysical surveys: VLF-EM (NAA & NSS) Geonics EM-16	= $1000
- geophysical surveys: Magnetic (total field & vertical gradient) base station and portable unit: GEM Systems "GSM-8"	= $1000
- geological mapping & sampling (geologist + assistant)	= $1000
- final summary report (1 day)	= $300
- 7 rock sample assays	= $105
- drafting fees for 5 maps	= $200
- drafting supplies for sketches and field maps	= $50
- consumeables (flagging tape. sample bags, topofil, etc.)	= $50
B) *Support Costs:* ($1585)	
- vehicle mileage (1000 km @ .30/km)	= $300
- food & accommodation (7 days)	= $1050
- ATV rental (1 week)	= $100
- boat rental (1 week)	= $100
- GPS rental (1 week)	= $35

Total Allowable For Assessment Credits: $5428.50 * 20% ($1085.70) = $6514.2

Total Claimed: ***$6514.2***

The above cost statement has been compiled from information provided by the authors of the report at my request.

Yours truly,

Glenn J. Mullan
November 29th, 1995

Ontario

Ministry of Northern Development and Mines
Ministère du Développement du Nord et des Mines

Geoscience Approvals Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

February 19, 1996

Our File: 2.16292
Transaction #: W9580.00775
.00776
.00777

Mining Recorder
Ministry of Northern Development & Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS L.1206575 ET AL IN ASQUITH & CHURCHILL TOWNSHIPS

Assessment work credits have been approved as outlined on the original submission. The credits have been approved under Section 9, Prospecting, Section 12, Geology and Section 14, Geophysics (Mag & VLF), Mining Act Regulations.

The approval date is February 16, 1996.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5858.

Yours Sincerely,
ORIGINAL SIGNED BY:

Bruce Gates
for

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

LJ/jl
Enclosure:

cc: Resident Geologist
Cobalt, Ontario

Assessment Files Library
Sudbury, Ontario

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O – MINING RIGHTS ONLY
S.R.O – SURFACE RIGHTS ONLY
M + S. – MINING AND SURFACE RIGHTS

	Description	Order No	Date	Disposition	File
R1	MNR RESERVE			SRO	163003
R2	MNR RESERVE			SRO	163005
R3	WASTE DISPOSAL		2/9/81	SRO	
R4		W91/81	28/8/81	SRO	188517

APPLICATION FOR SURFACE RIGHTS PENDING PUBLIC LAND ACT FEB 12, 1988

SAND AND GRAVEL

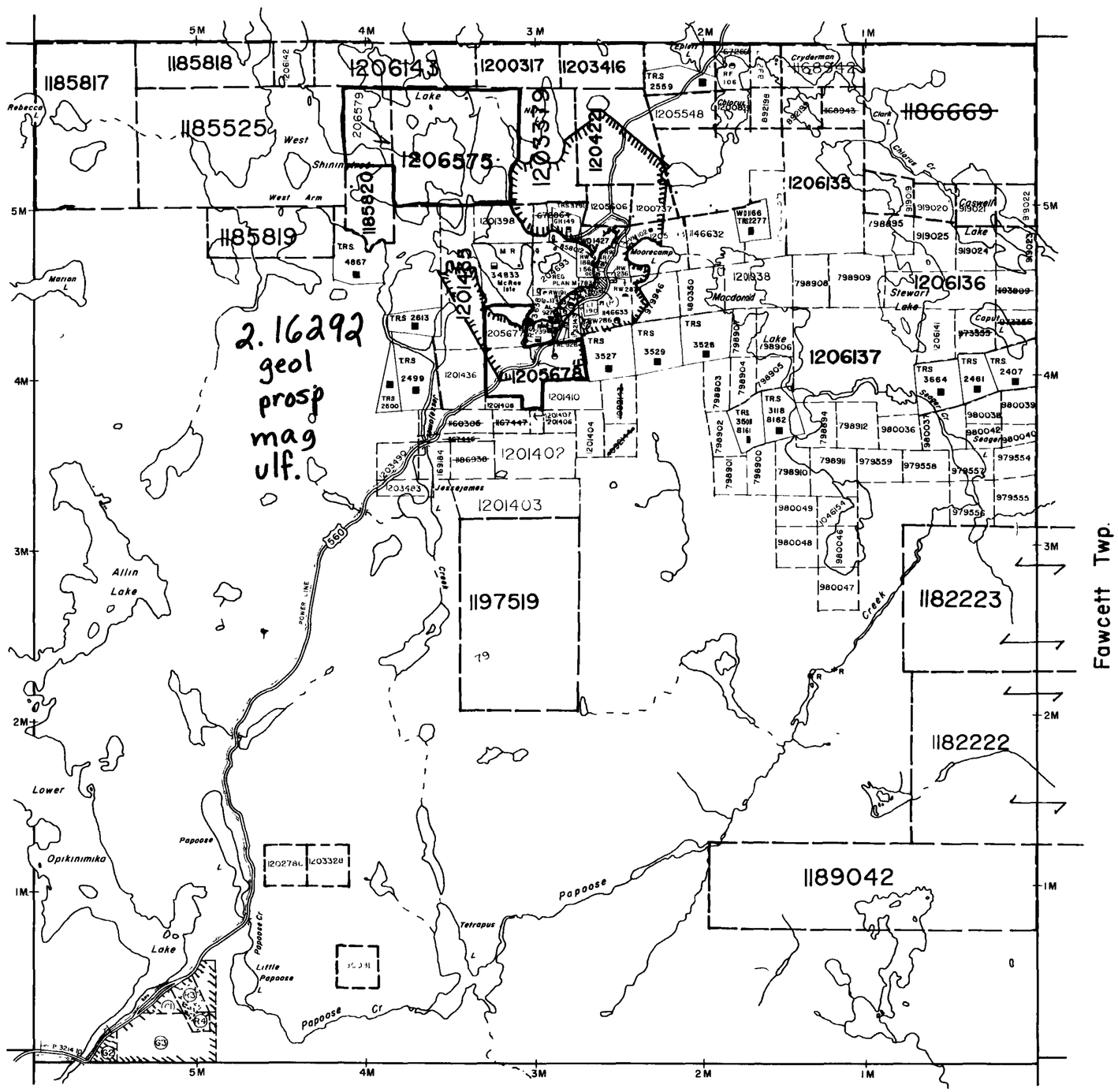
G1 MTC GRAVEL PIT NO 3C-15
G2 MTC GRAVEL PIT NO 3C-14
G3 MTC GRAVEL PIT NO 3C-16

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE ——
SHININGTREE MANAGEMENT UNIT
AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129
LOW AVENUE
GOGAMA, ONT.
P0M 1W0
705-894-2000

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

Churchill Twp.



COBALT RESIDENT GEOLOGIST

LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS BASE LINES ETC
  - LOTS MINING CLAIMS PARCELS ETC
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◒
" , MINING RIGHTS ONLY	◓
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◨
" , MINING RIGHTS ONLY	◧
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	Ⓡ
CANCELLED	⊗
SAND & GRAVEL	Ⓢ

NOTE MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP 380 SEC 63 SUBSEC 1

SCALE 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 2000 (2 KM)

TOWNSHIP
ASQUITH

M.N.R. ADMINISTRATIVE DISTRICT
GOGAMA
MINING DIVISION
LARDER LAKE
LAND TITLES / REGISTRY DIVISION
SUDBURY

Ministry of Natural Resources — Land Management Branch

Date FEBRUARY, 1985
CIRCULATED JUNE 23/95 CM

Number
G-3206

COBALT RESIDENT
GEOLOGIST DISTRICT

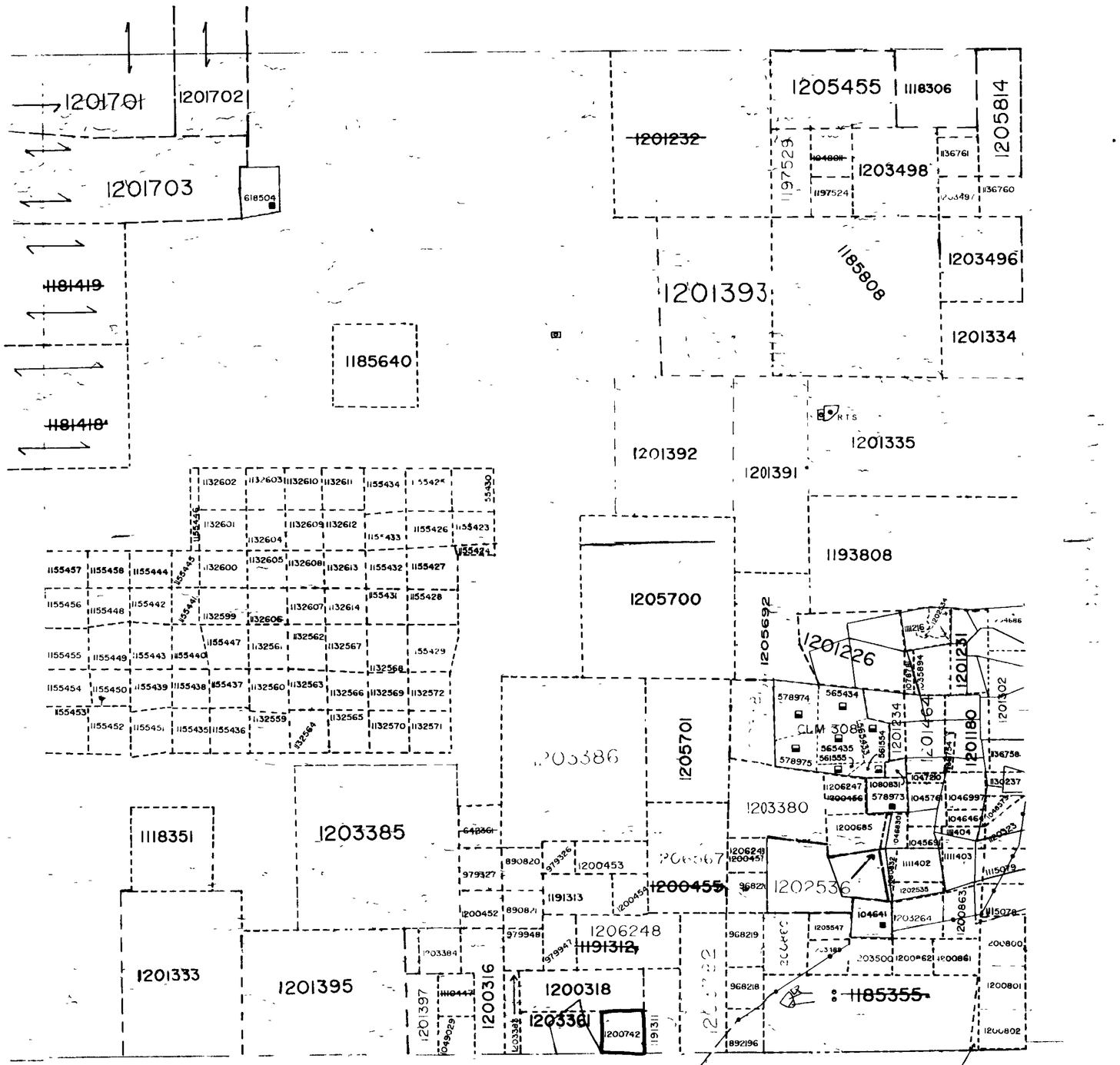
C-3210

REFERENCE

AREAS WITHDRAWN FROM DISPOSITION

MRO – MINING RIGHTS ONLY
SRO – SURFACE RIGHTS ONLY
M+S – MINING AND SURFACE RIGHTS

Description	Order No	Date	Disposition	File



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS, ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER IN COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	
REMOTE TOURIST SETUP	S

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 4, 1913 VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC.

SCALE: 1 INCH = 40 CHAINS

0 1000 2000 FEET

METRES

RECEIVED
DEC - 8 1995
MINING LANDS BRANCH

RECEIVED
DEC 8 1995
MINING LANDS BRANCH

400 FOOT RESERVATION ALONG THE SHORE OF ALL LAKES AND RIVERS

TOWNSHIP
CHURCHILL

DATE OF ISSUE
DEC 4 1995

M.N.R. ADMINISTRATIVE DISTRICT: LARDER LAKE
MINING RECORDER'S OFFICE

GOGAMA

MINING DIVISION
LARDER LAKE

LAND TITLES / REGISTRY DIVISION
SUDBURY

2.16292

Ministry of Natural Resources — Land Management Branch
Ontario

Date: FEBRUARY, 1985

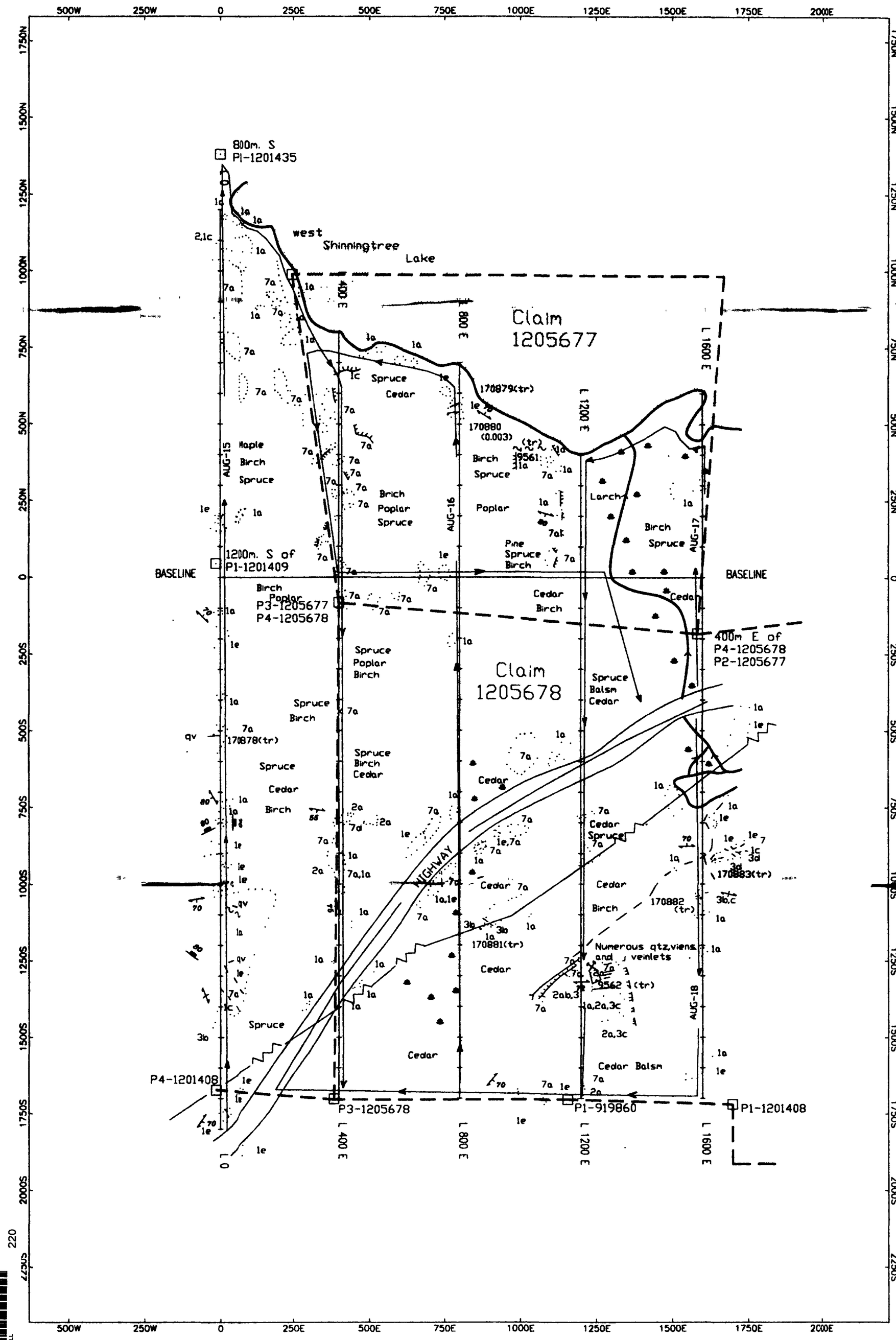
Number: G-3210

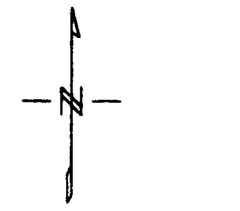
CIRCULATED
DEC. 1, 1995

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

2.16292
geol, prosp
mag, vlf

41P11SW0014 2.16292 CHURCHILL





LEGEND

7 Mafic Intrusive Rocks
- 7a Diabase
- 7d Diabase Glomerophyritic

3 Felsic Metavolcanic Rocks
- 3a Flows, Massive Lavas
- 3c Flows, Aphanitic, Foliated

2 Intermediate Metavolcanic Rocks
- 2a Flows, Massive, fine to medium grained
- 2b Flows Pillowed Lavas

1 Mafic Metavolcanic Rocks
- 1a Flows, Massive, fine to medium grained
- 1b Flows, Massive, coarse-grained
- 1c Flows, Pillowed Lavas
- 1d Flows, Porphyritic Lavas
- 1e Flows, Foliated Lavas

SYMBOLS

- Claim Post
- Claim Line
- Highway
- Gravel Road
- Trail
- Creek
- Hydro Line
- Cliff
- Pond, Lake
- Swamp
- Trench
- Out Crop
- Contact
- Quartz Vein
- Shear
- Lineation
- Direction and Plunge of Pillows
- Jointing
- Fracture
- Sample (Outcrop) With Number and Assay
- Prospecting Traverse With, date, direction

2.15592

RECEIVED
DEC 8 1995
MINING LANDS BRANCH

Scale 1:2400
100 0 100 200 300 400 500 600
(feet)

GEOLOGUE ✦ GEOLOGUE
APGGQ
PETER J. HAWLEY
Nº 843
QUÉBEC ✦ CANADA

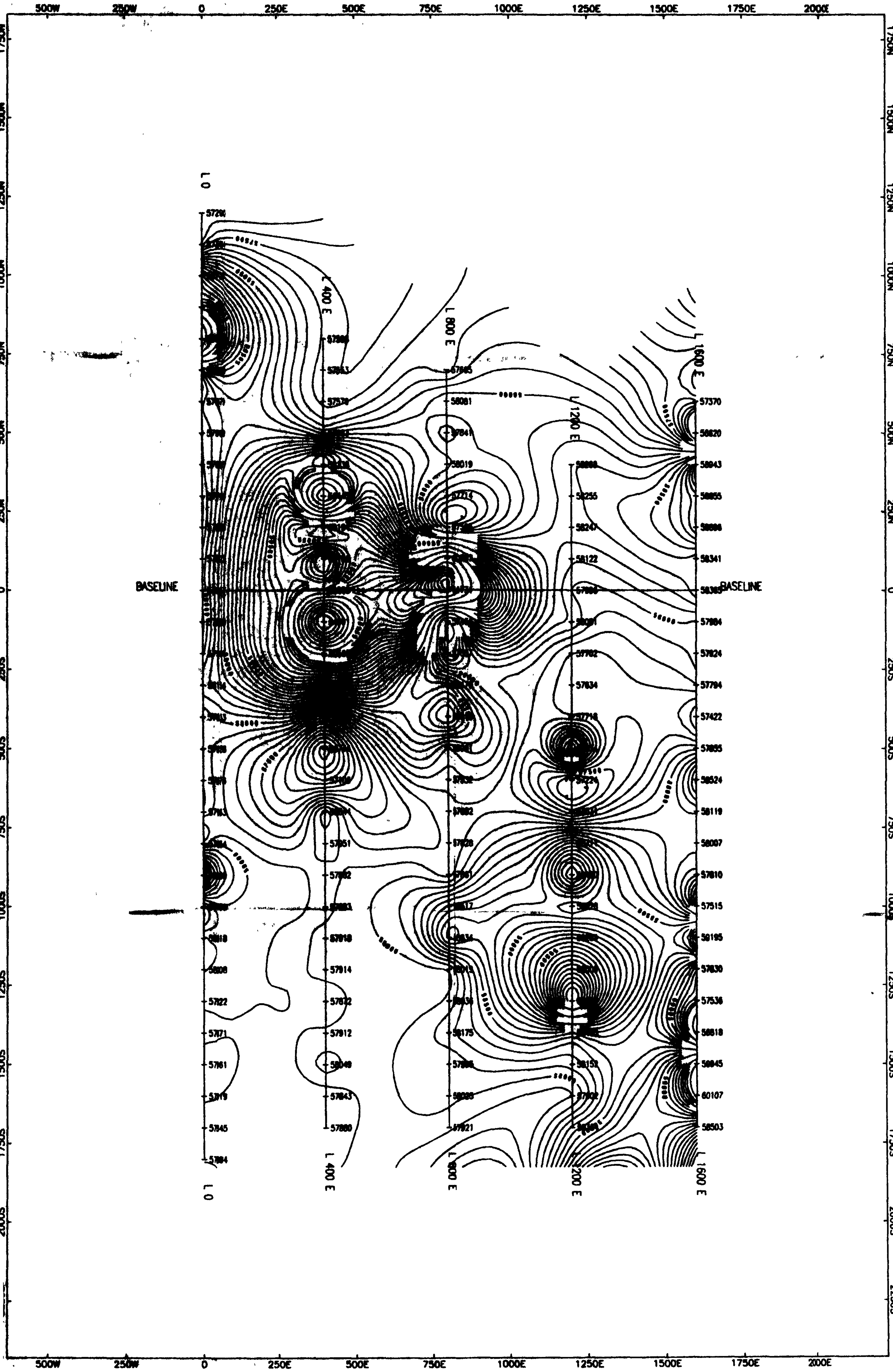
Peter J. Hawley Permit K22207

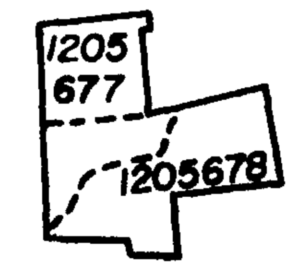
TRINITY EXPLORATIONS PROPERTY

PROSPECTING and GEOLOGY MAP PG-1
BLOCK 1

ASQUITH TWP
SHINING TREE
ONTARIO, OCT. 1995

PETER J. HAWLEY





ASQUITH TWP.
1" = 0.5 MI

2.16292

LEGEND

Equiptment used GEM
GSM 8
▲ Base station location
all readings are in gammas
and are corrected for diurnal variations

Magnetic Low

GÉOLOGUE ✦ GEOLOGIST
APGGQ
PETER J. HAWLEY
Nº 843
QUÉBEC ✦ CANADA

Scale 1:2400
100 0 100 200 300 400 500 600
(feet)

MAP: GROUP I – M

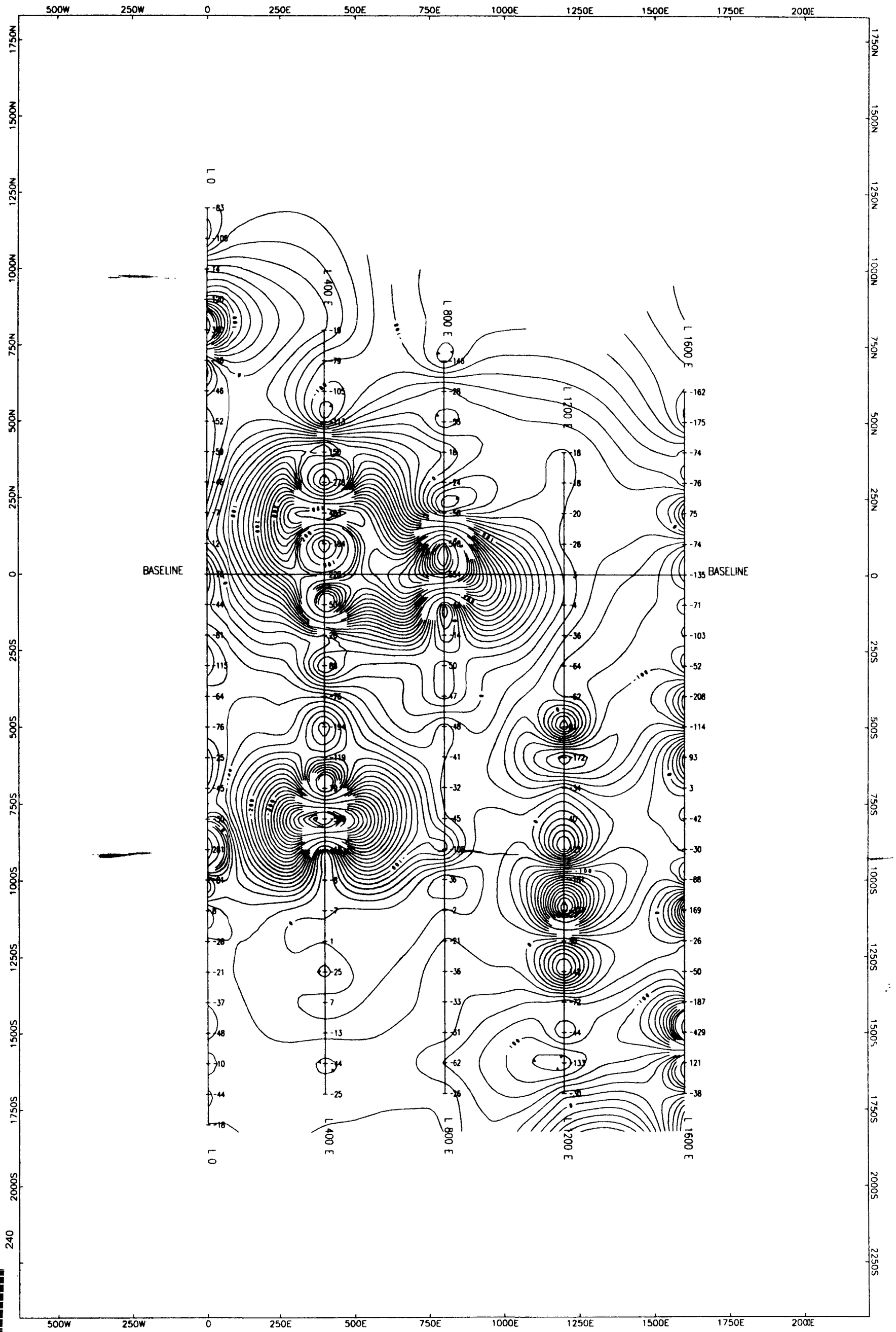
Peter J. Hawley Permit K22209

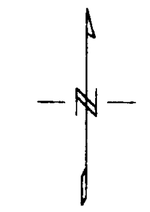
TRINITY EXPLORATIONS PROPERTY

MAGNETIC TOTAL FIELD, TF-1
GEOPHYSICAL SURVEY
BLOCK 1

ASQUITH TWP.
SHINING TREE
ONTARIO, OCT, 1995

PETER J. HAWLEY





ASQUITH TWP.
1" = 0.5 Mi

LEGEND

Equiptment used 2 GEM
GSM 8's
Reading are in gammas/ft

Low

Contour interval 10 gammas/ft

2.16292

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DEC 8 1995
MINING LANDS BRANCH

GÉOLOGUE ✦ GEOLOGIST
APGGQ
PETER J. HAWLEY
Nº 843
QUÉBEC ✱ CANADA

Scale 1:2400

100 0 100 200 300 400 500 600
(feet)

MAP: GROUP I - M G

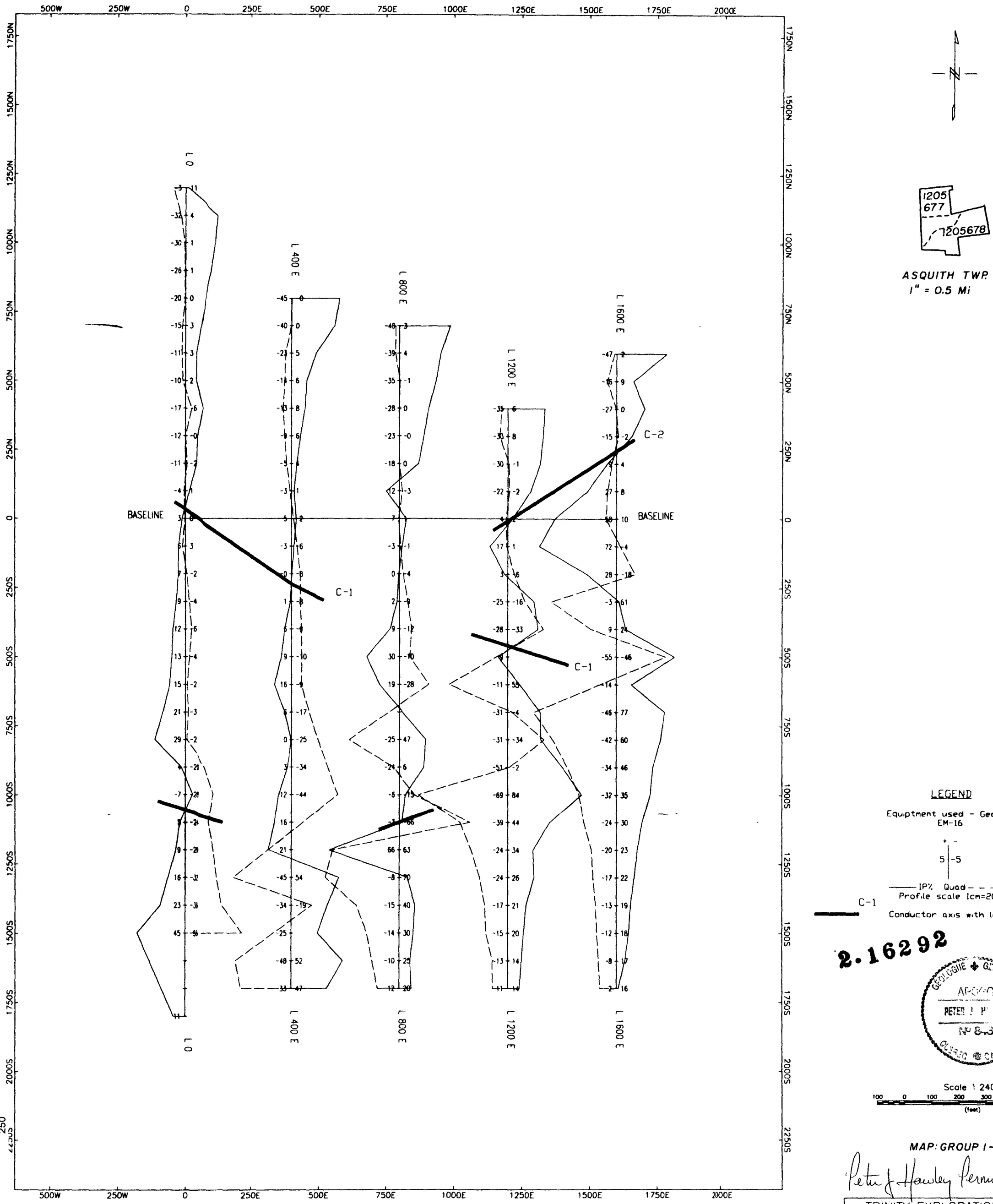
Peter J Hawley Permit K22209

TRINITY EXPLORATIONS PROPERTY

VERTICAL GRADIENT, VG-1
GEOPHYSICAL SURVEY
BLOCK 1

ASQUITH TWP
SHINING TREE
ONTARIO, OCT, 1995

PETER J. HAWLEY



ASQUITH TWP.
1" = 0.5 Mi

LEGEND

Equiptment used - Geonics EM-16

+ 5 | - 5

——— IP% Quad - - - %

Profile scale 1cm=20%

C-1 ——— Conductor axis with label

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MINING LANDS BRANCH

2.16292

GÉOLOGUE ✦ GEOLOGIST
PETER J. HAWLEY
№ 843
QUÉBEC ✦ CANADA

Scale 1 2400

100 0 100 200 300 400 500 600
(feet)

MAP: GROUP I-C

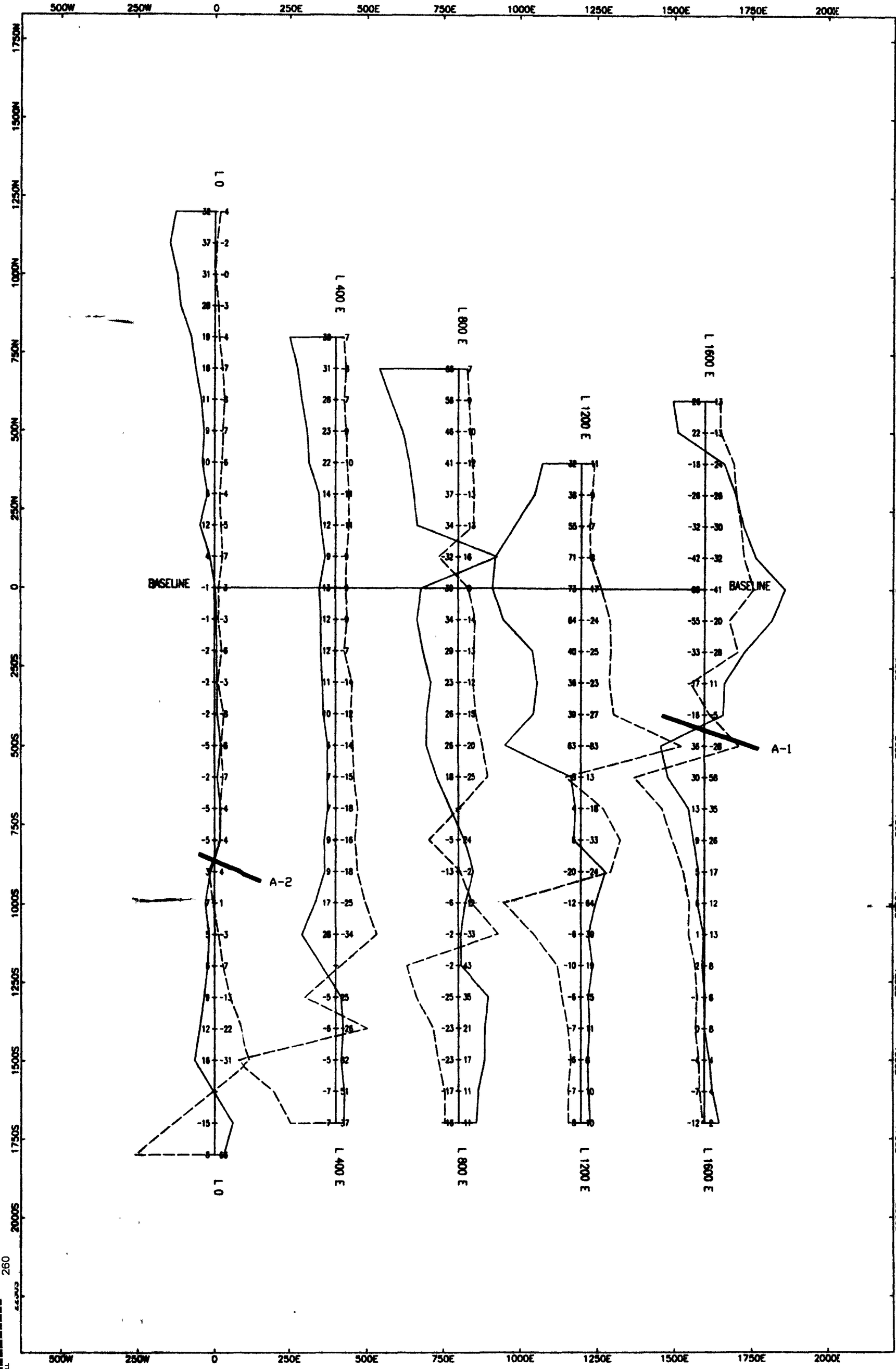
Peter J. Hawley Permit K22209

TRINITY EXPLORATIONS PROPERTY

VLF ELECTROMAGNETIC SURVEY
Freq. 24 0kHz Cutler, USA, VLF-1a
BLOCK 1

ASQUITH TWP
SHINING TREE
ONTARIO, OCT, 1995

PETER J. HAWLEY



ASQUITH TWP.
1" = 0.5 Mi

LEGEND

Equiptment used - Geonics EM-16

+ -
5 -5

IP% Quad - - -%
Profile scale 1cm=20%

A-1 Conductor axis with label

2.16292

RECEIVED
DEC 8 1995
MINING LANDS BRANCH

GÉOLOGUE ✦ GÉOLOGUE
APGGQ
PETER J. HAWLEY
Nº 843
QUÉBEC ✱ CANADA

Scale 1:2400

100 0 100 200 300 400 500 600
(Feet)

MAP: GROUP I - A

Peter J. Hawley Permit K22209

TRINITY EXPLORATIONS PROPERTY

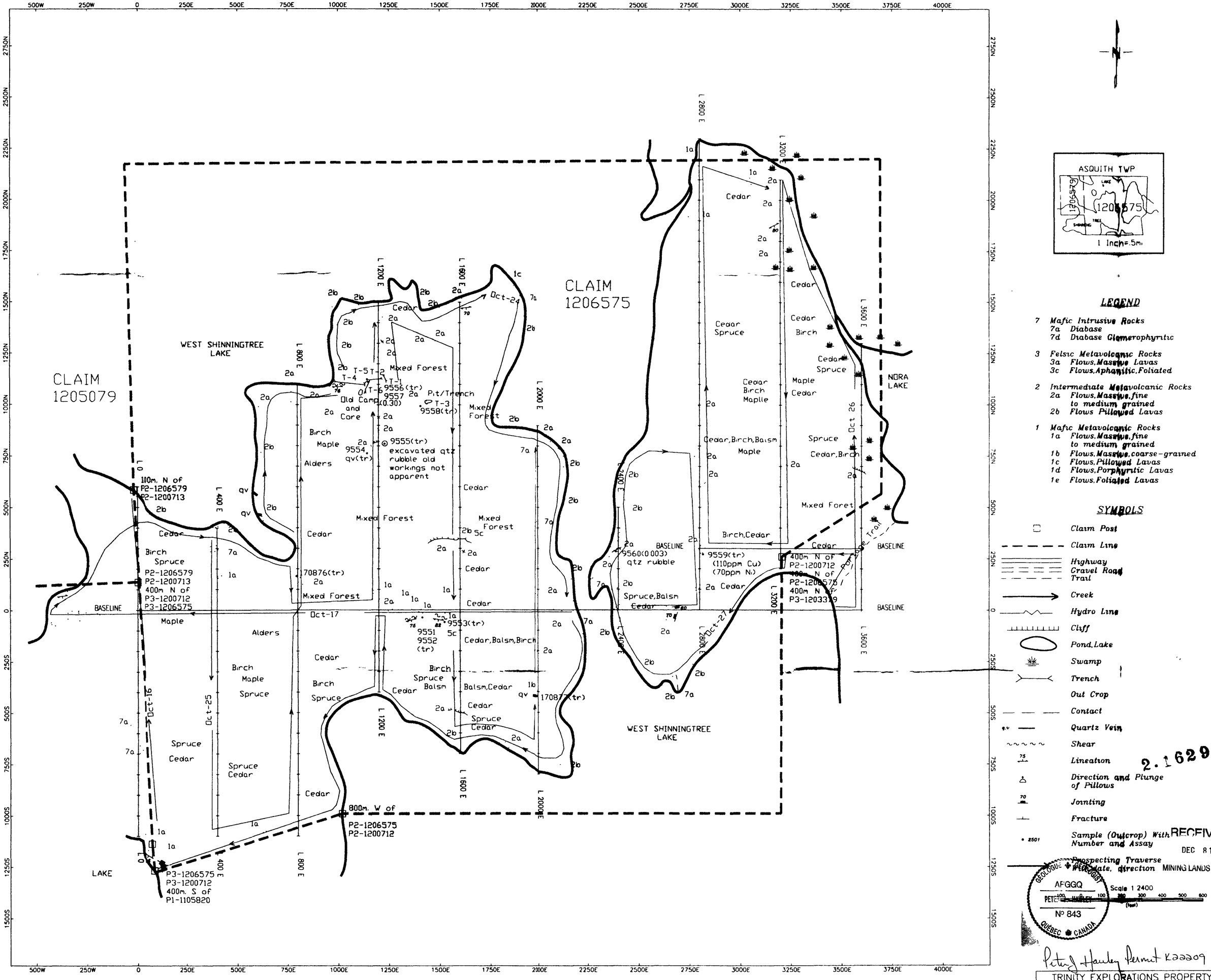
VLF ELECTROMAGNETIC SURVEY
Freq: 21.4kHz Annapolis, USA, VLF-1b
BLOCK 1

ASQUITH TWP.
SHINING TREE
ONTARIO, OCT. 1995

PETER J. HAWLEY

260

41P11SW0014 2.16292 CHURCHILL



LEGEND

7 *Mafic Intrusive Rocks*
- 7a *Diabase*
- 7d *Diabase Glomerophyritic*

3 *Felsic Metavolcanic Rocks*
- 3a *Flows, Massive Lavas*
- 3c *Flows, Aphanitic, Foliated*

2 *Intermediate Metavolcanic Rocks*
- 2a *Flows, Massive, fine to medium grained*
- 2b *Flows Pillowed Lavas*

1 *Mafic Metavolcanic Rocks*
- 1a *Flows, Massive, fine to medium grained*
- 1b *Flows, Massive, coarse-grained*
- 1c *Flows, Pillowed Lavas*
- 1d *Flows, Porphyritic Lavas*
- 1e *Flows, Foliated Lavas*

SYMBOLS

- *Claim Post*
- *Claim Line*
- *Highway*
- *Gravel Road*
- *Trail*
- *Creek*
- *Hydro Line*
- *Cliff*
- *Pond, Lake*
- *Swamp*
- *Trench*
- *Out Crop*
- *Contact*
- *Quartz Vein*
- *Shear*
- *Lineation*
- *Direction and Plunge of Pillows*
- *Jointing*
- *Fracture*
- *Sample (Outcrop) With Number and Assay*
- *Prospecting Traverse With date, direction*

2.16292

RECEIVED
DEC 8 1995
MINING LANDS BRANCH

GEOLOGUE ✱ GEOLOGIST
AFGGQ
PETER HAWLEY
Nº 843
QUÉBEC ✱ CANADA

Scale 1 2400
100 0 100 200 300 400 500 600
(feet)

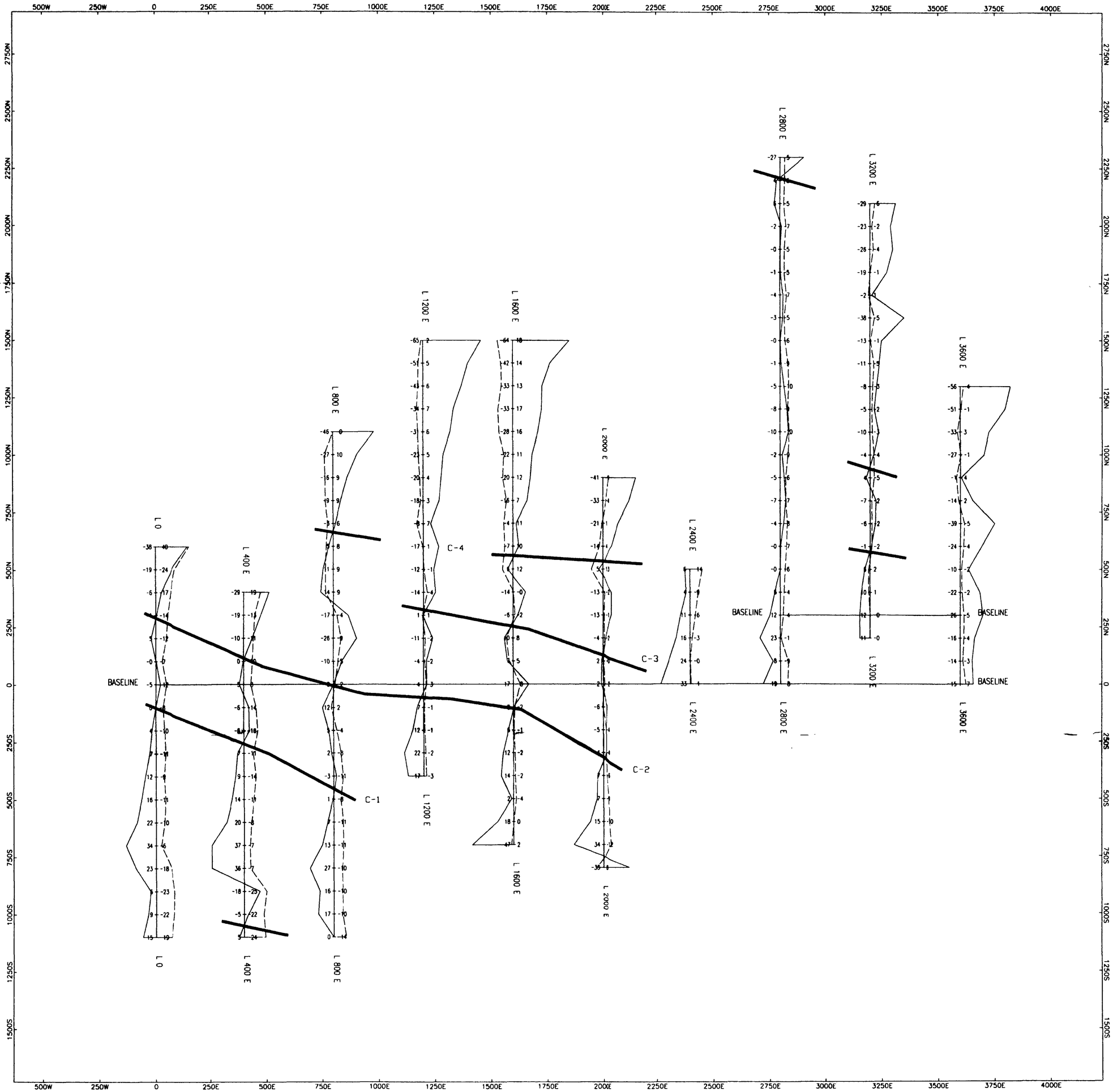
Peter J. Hawley Permit #22209

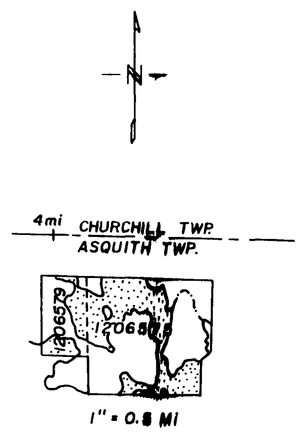
TRINITY EXPLORATIONS PROPERTY

PROSPECTING and GEOLOGY MAP PG-2
BLOCK 2

ASQUITH TWP
SHINING TREE
ONTARIO, OCT. 1995

PETER J. HAWLEY





LEGEND

Equipment used - Geonics EM-16

IP% Quad - - -%
Profile scale 1cm=20%

C-1 Conductor axis with label

2.16292

GEOLOGUE ♦ GEOLOGIST
ARGQ
PETER J. HAWLEY
№ 843
QUÉBEC ♦ CANADA

RECEIVED
DEC 8 1995
MINING LANDS BRANCH

Scale 1:2
100 0 100 200 300 400 500 600
(m)

MAP: GROUP 2-C

Peter J Hawley Permit K22209

TRINITY EXPLORATIONS PROPERTY

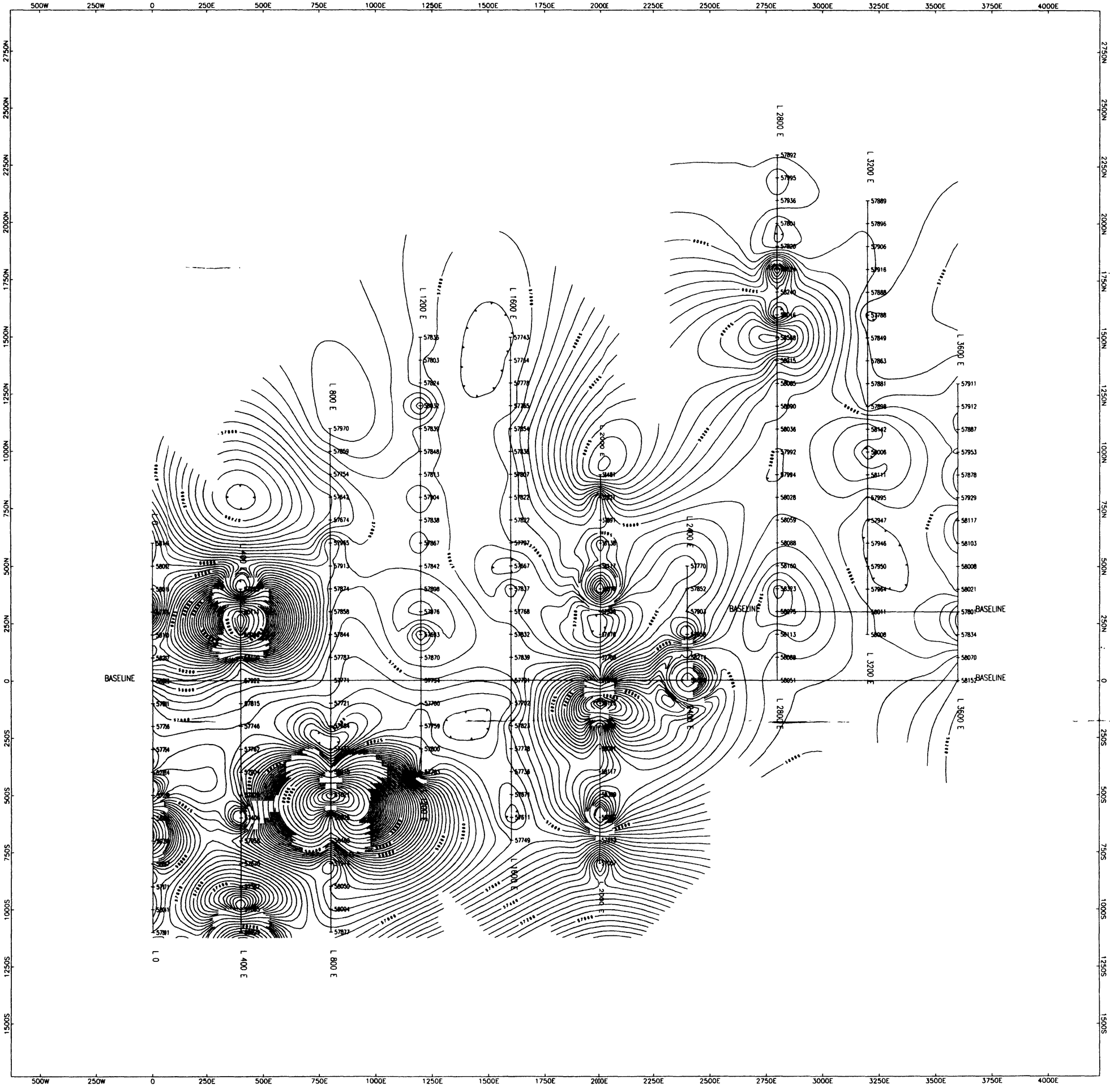
VLF ELECTROMAGNETIC SURVEY
Freq. 24.0kHz Cutler, USA, VLF-2a
BLOCK 2

ASQUITH TWP
SHINING TREE
ONTARIO, OCT. 1995

PETER J. HAWLEY

41P11SW0014 2.16292 CHURCHILL

280



4mi
CHURCHILL TWP.
ASQUITH TWP.

1" = 0.5 MI

LEGEND

Equiptment used GEM GSM 8
▲ Base station location
all readings are in gammas
and are corrected for diurnal variations
Magnetic Low

RECEIVED
DEC 8 1995
MINING LANDS BRANCH

2.16292

GEOLOGIST ◆ GEOLOGIST
APGGQ
PETER J. HAWLEY
Nº 843
QUEBEC ◆ CANADA

Scale 1:2400
100 0 100 200 300 400 500 600
(feet)

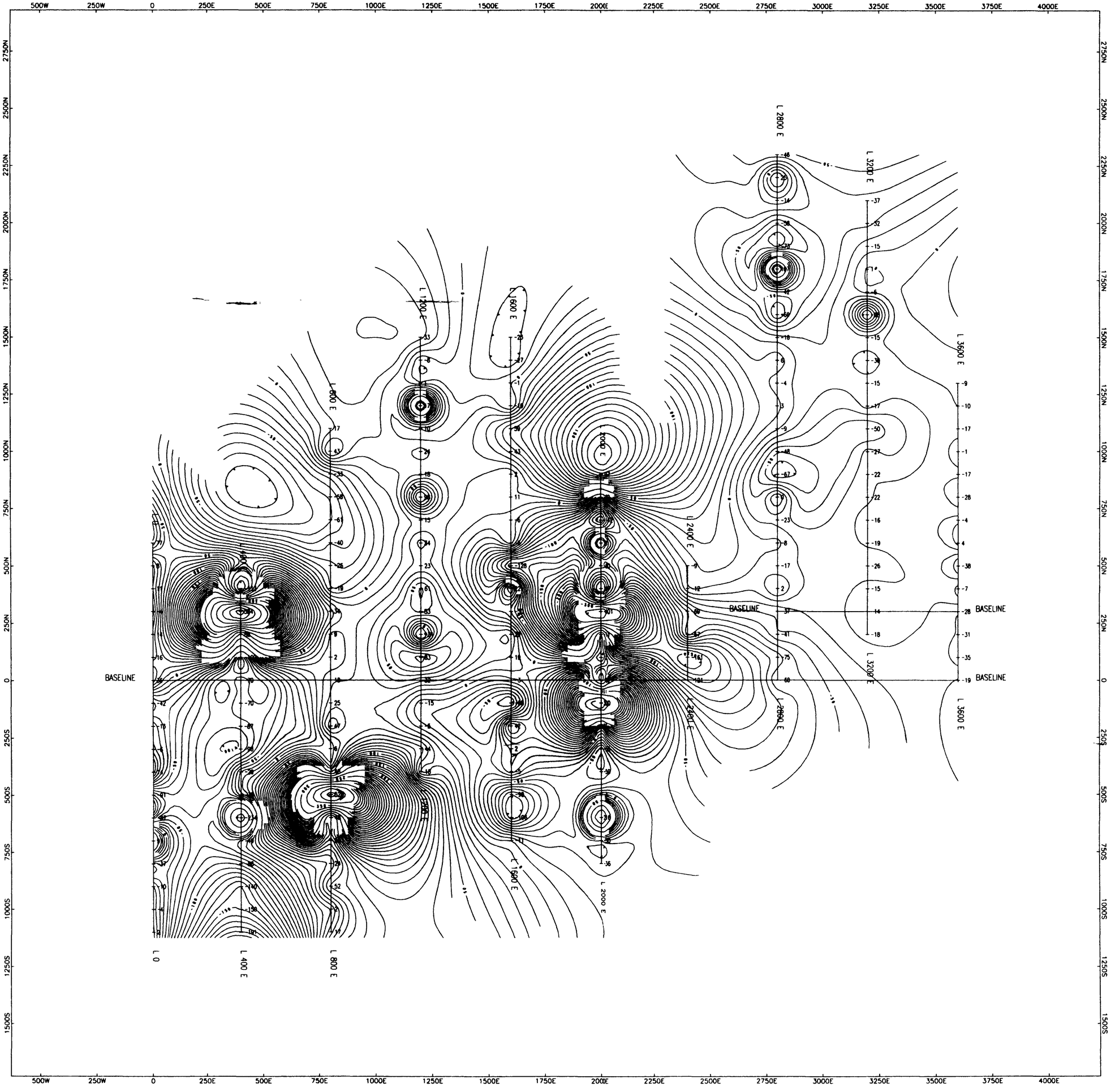
MAP: GROUP 2-M

Peter J. Hawley Permit K22209

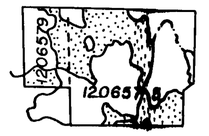
TRINITY EXPLORATIONS PROPERTY
MAGNETIC TOTAL FIELD, TF-2 GEOPHYSICAL SURVEY BLOCK 2
ASQUITH TWP SHINING TREE ONTARIO, OCT. 1995
PETER J. HAWLEY

41P11SW0014 2 16292 CHURCHILL

290



4mi CHURCHILL TWP.
ASQUITH TWP.



1" = 0.5 MI

LEGEND

Equiptment used 2 GEM GSM 8's
Reading are in gammas/ft

Low

Contour interval 10 gammas/ft

16292

RECEIVED
DEC 8 1995
MINING LANDS BRANCH

GEOLOGUE GEOLOGIST
APGGQ
PETER J. HAWLEY
Nº 843
QUEBEC CANADA

Scale 1:2400
100 0 100 200 300 400 500 800
(feet)

Peter J. Hawley Permit K22209

MAP GROUP 2 - G

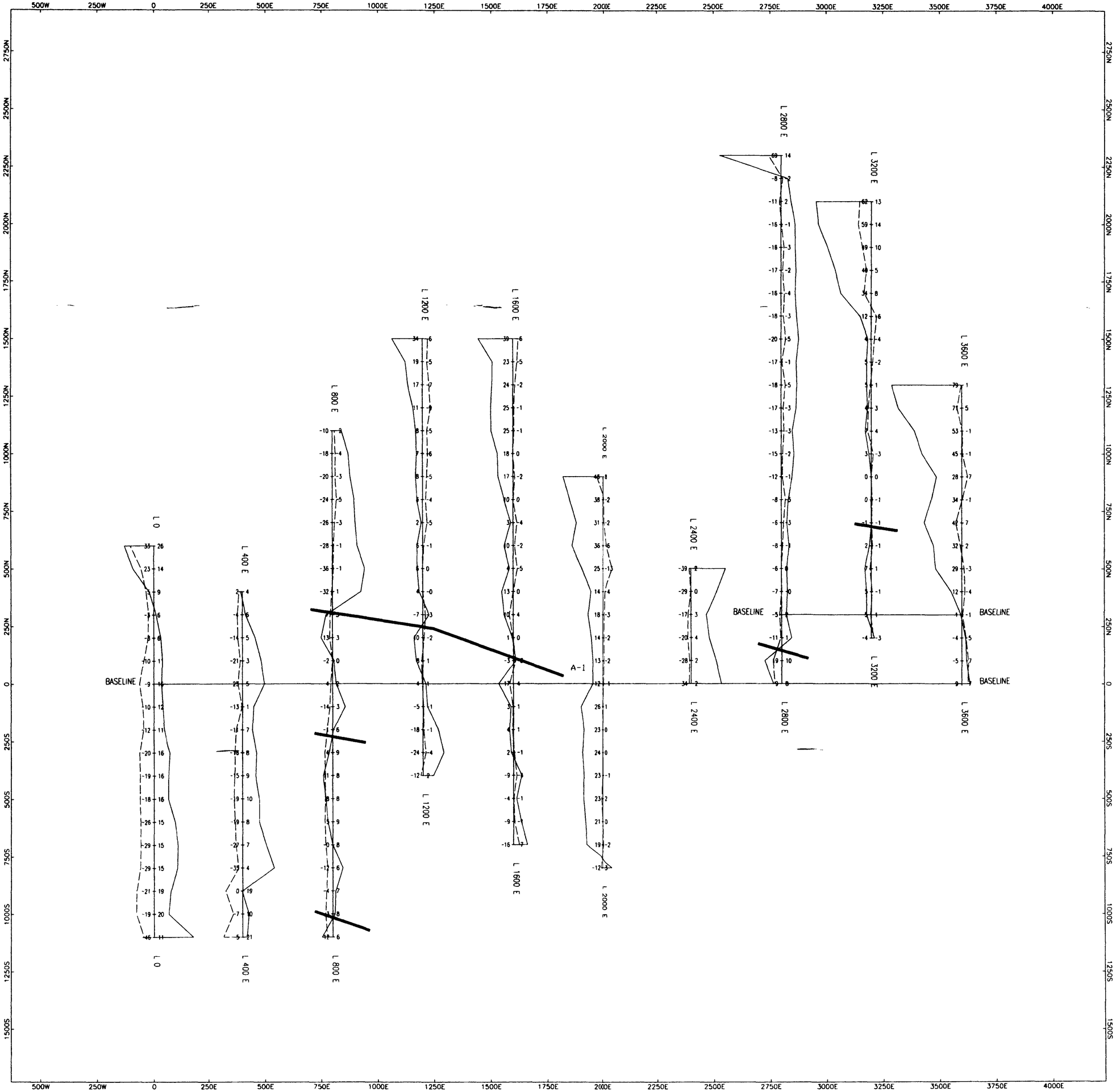
TRINITY EXPLORATIONS PROPERTY

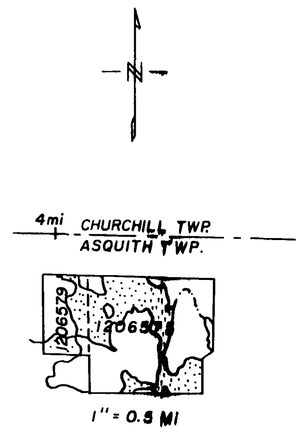
VERTICAL GRADIENT, VG-2
GEOPHYSICAL SURVEY
BLOCK 2

ASQUITH TWP.
SHINING TREE
ONTARIO, OCT. 1995

PETER J. HAWLEY

41P15SW0014 2 16292 CHURCHILL





LEGEND

Equiptment used - Geonics EM-16

IP% Quad - - -%

Profile scale 1cm=20%

A-1 Conductor axis with label

2.16292

GEOLOGIST
PETER J. HAWLEY
No 843
ONTARIO, CANADA

RECEIVED
DEC 8 1995
MINING LANDS BRANCH

Scale 1:5000
100 0 100 200 300 400 500 600 (feet)

Peter J Hawley Permit K22209

MAP: GROUP2 - A

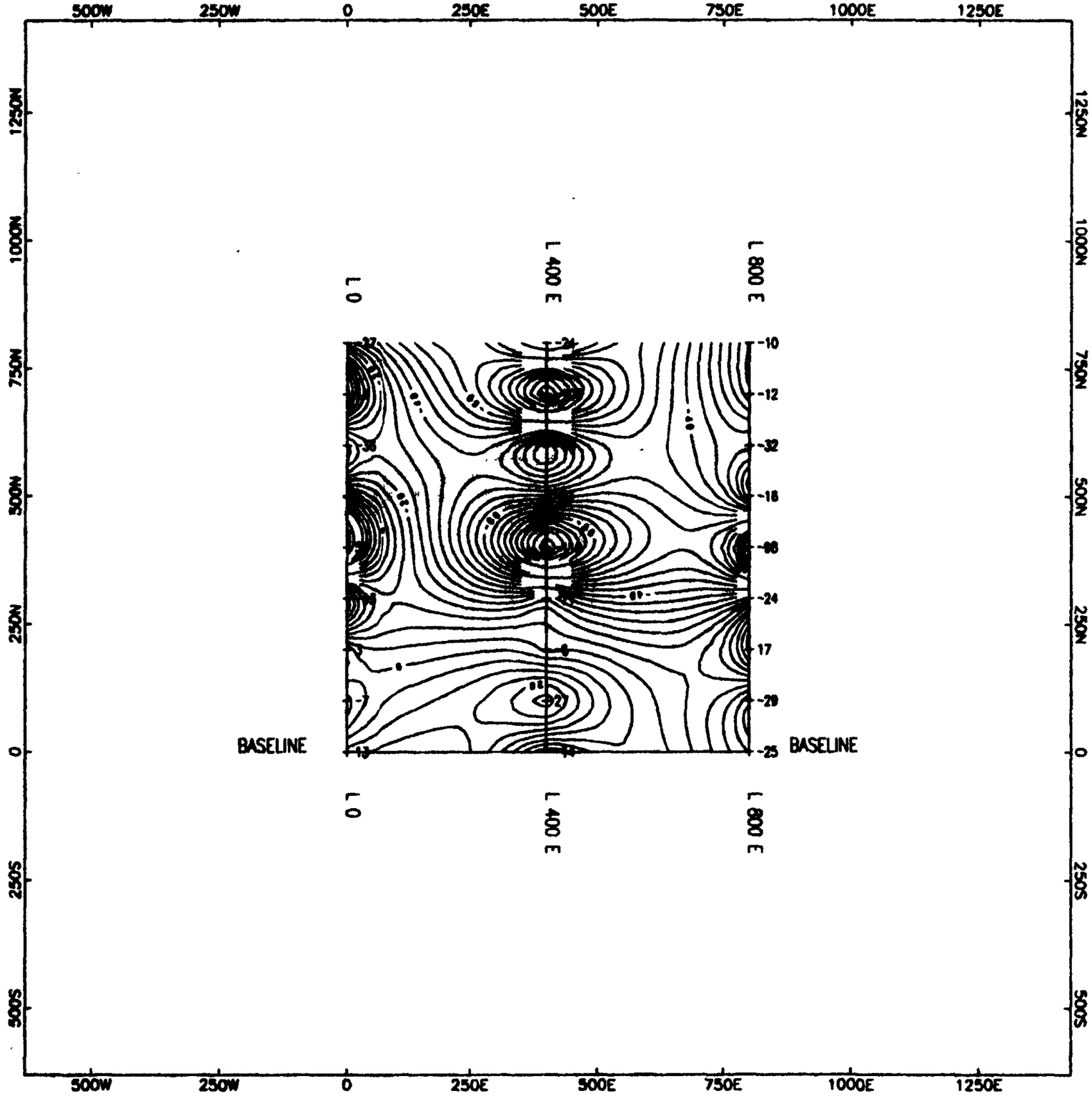
TRINITY EXPLORATIONS PROPERTY

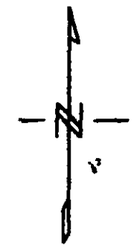
VLF ELECTROMAGNETIC SURVEY
Freq: 21 4kHz Annapolis, USA, VLF-2b
BLOCK 2

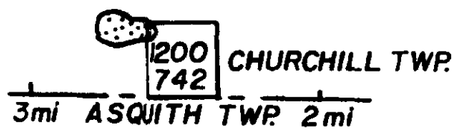
ASQUITH TWP
SHINING TREE
ONTARIO, OCT. 1995

PETER J HAWLEY

41P11SW0014 2 16292 CHURCHILL







CHURCHILL TWP
1" = 0.5 MI

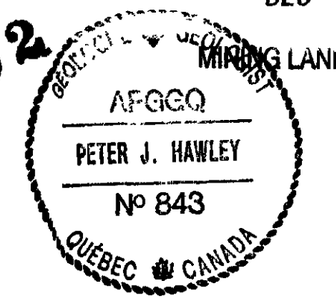
LEGEND

Equiptment used 2 GEM
GSM 8's
Reading are in gammas/ft

Low

Contour interval 5 gammas/ft

2.16292



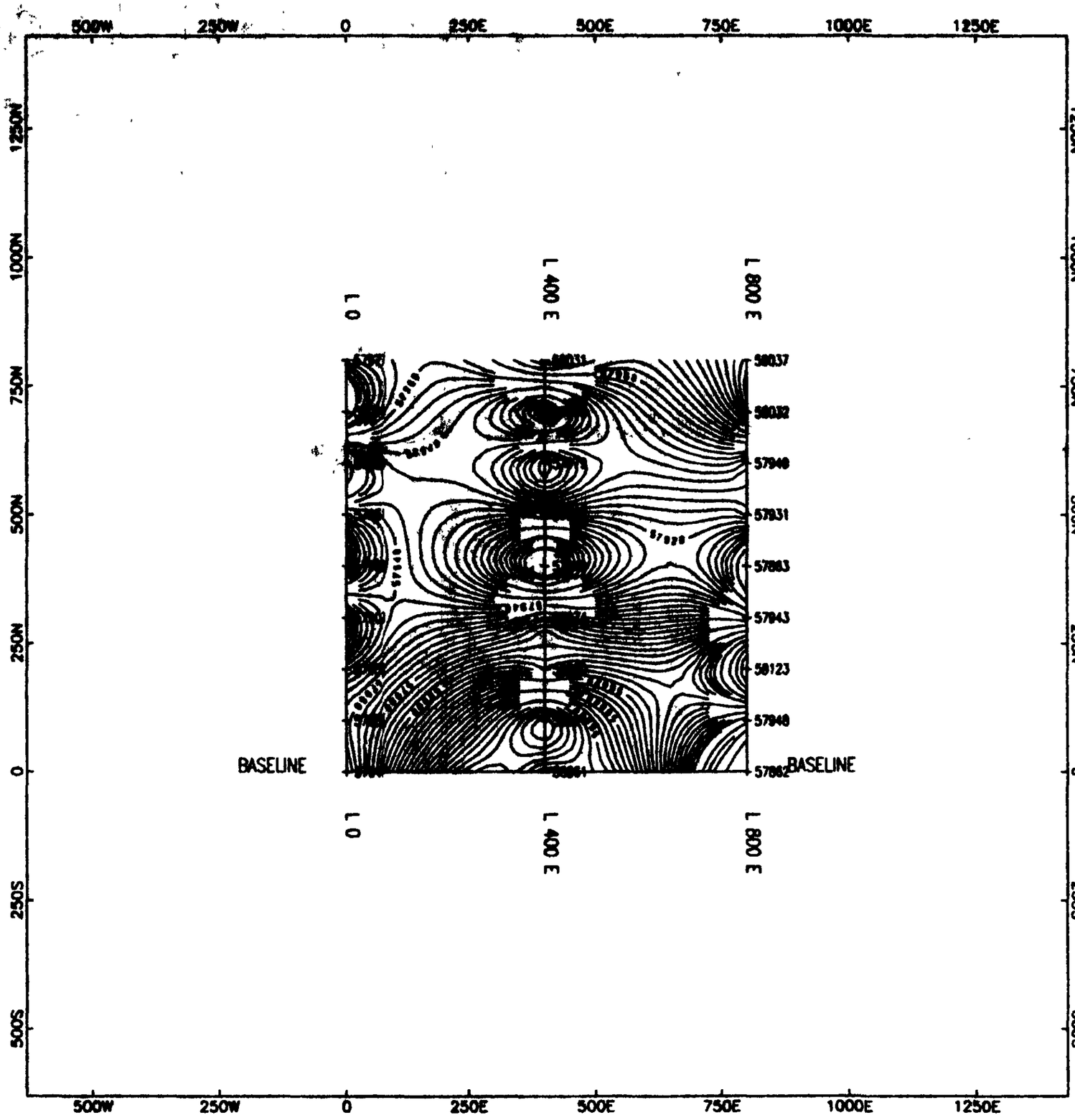
Scale 1:2400

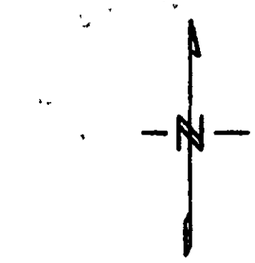
100 0 100 200 300 400 500
(feet)

MAP: GROUP 3-G

Peter J Hawley Permit K22209

TRINITY EXPLORATIONS PROPERTY
VERTICAL GRADIENT, VG-3 GEOPHYSICAL SURVEY BLOCK 3
ASQUITH TWP. CHURCHILL TWP. ONTARIO. OCT, 1995
PETER J. HAWLEY





CHURCHILL TWP.
1" = 0.5 Mi

LEGEND

2.16292

Equipment used GEM GSM 8

▲ Base station location

all readings are in gammas and are corrected for diurnal variations

Magnetic Low

Scale 1:2400

100 0 100 200 300 400 800 (feet)

MAP: GROUP 3 - M

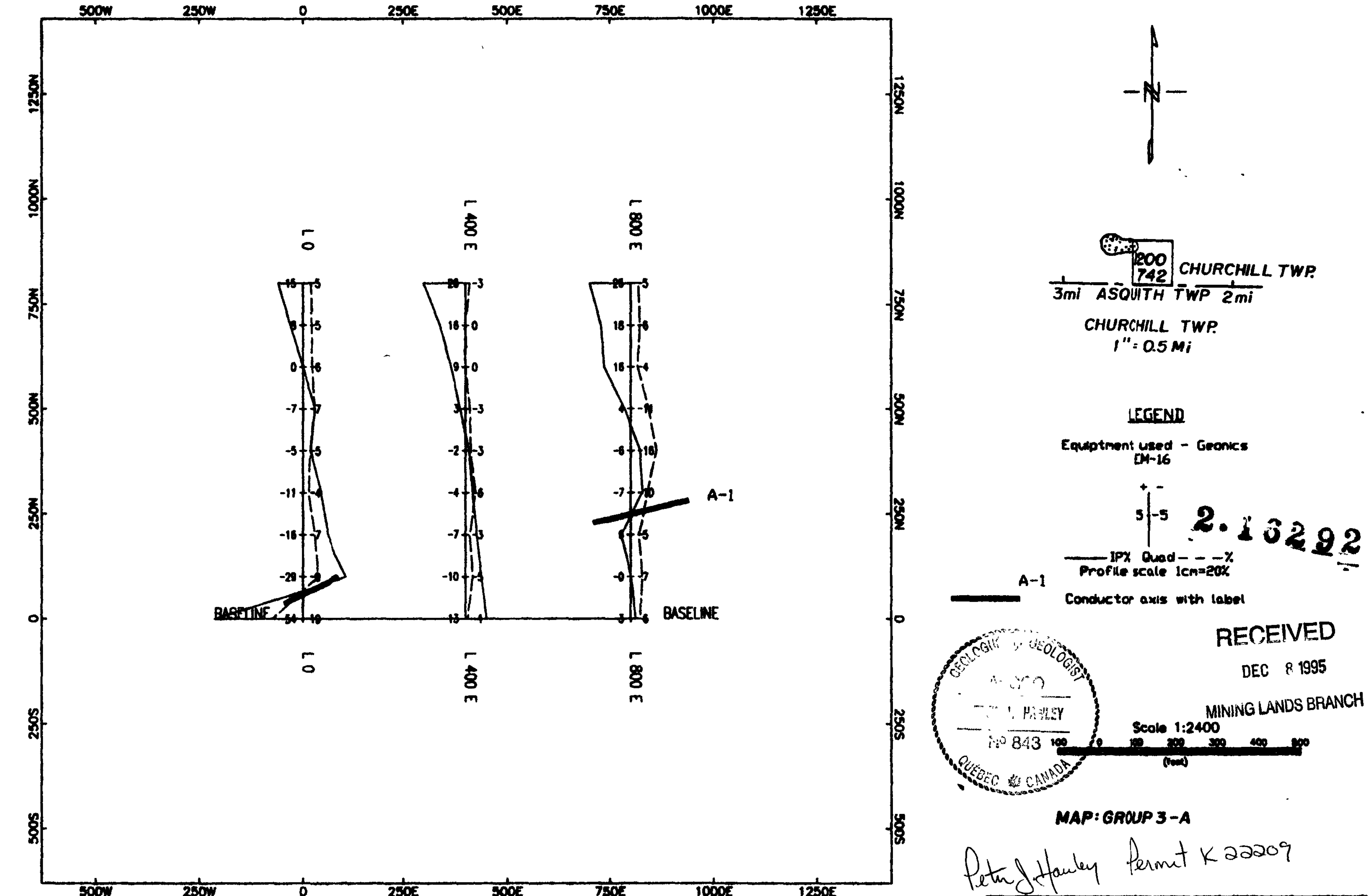
Peter J. Hawley Permit K 22209

TRINITY EXPLORATIONS PROPERTY

MAGNETIC TOTAL FIELD, TF-3
GEOPHYSICAL SURVEY
BLOCK 3

ASQUITH TWP.
CHURCHILL TWP.
ONTARIO, OCT. 1995

PETER J. HAWLEY



TRINITY EXPLORATIONS PROPERTY

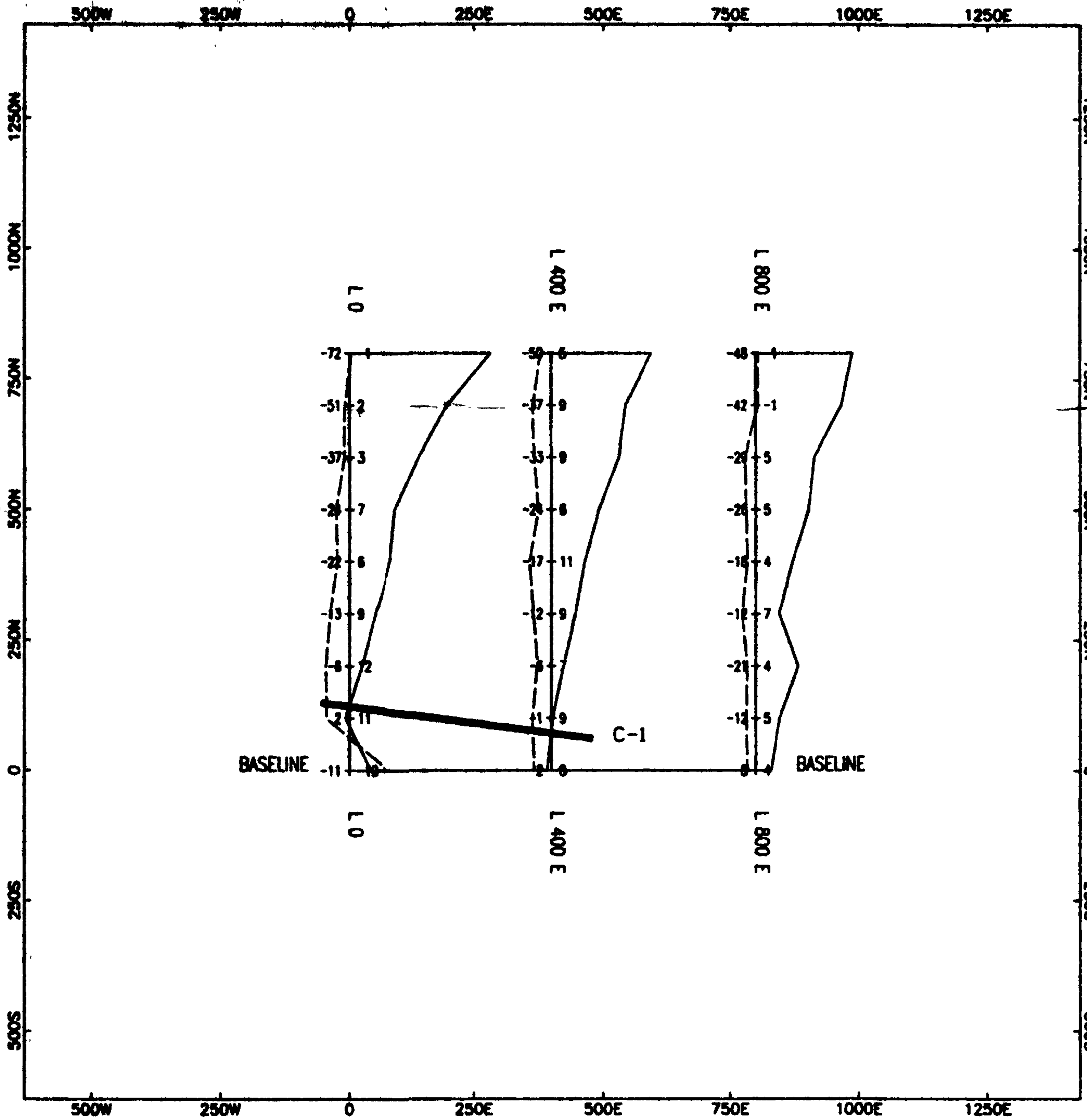
VLF ELECTROMAGNETIC SURVEY
Freq: 21.4 kHz Annapolis, USA, VLF-3b
BLOCK 3

ASQUITH TWP.
CHURCHILL TWP.
ONTARIO, OCT. 1995

PETER J. HAWLEY

41P11SW0014 2 16292 CHURCHILL

340



200 742 CHURCHILL TWP.
3mi ASQUITH TWP. 2mi
CHURCHILL TWP.
1" = 0.5 Mi

LEGEND

Equiptment used - Geonics EM-16

IPX Quad - - - %
Profile scale 1cm=20%

C-1 Conductor axis with label

2.16292

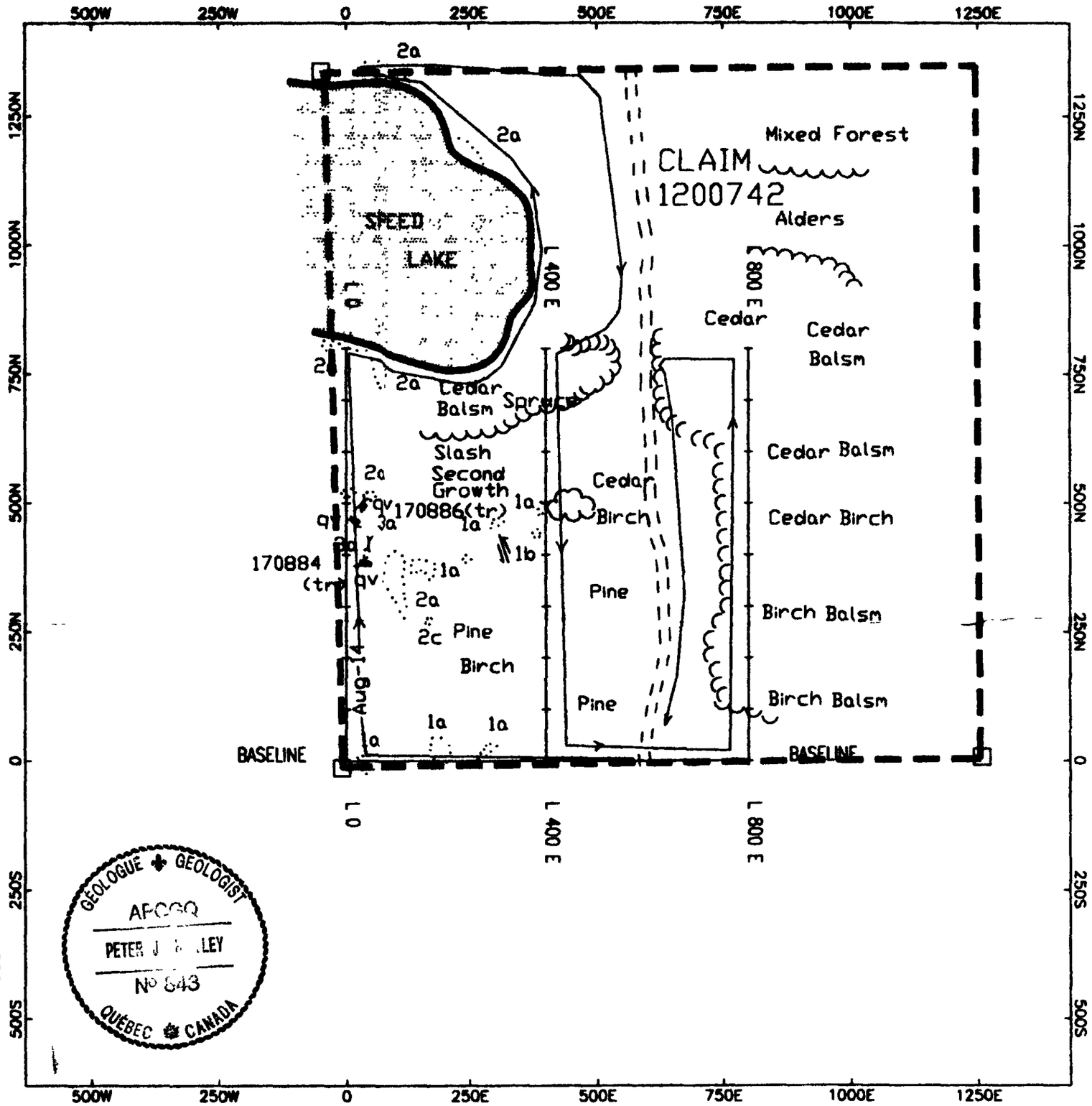
RECEIVED
DEC 8 1995
MINING LANDS BRANCH

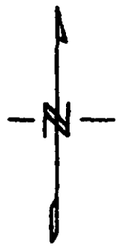
Scale 1:2400
100 0 100 200 300 400 500
(feet)

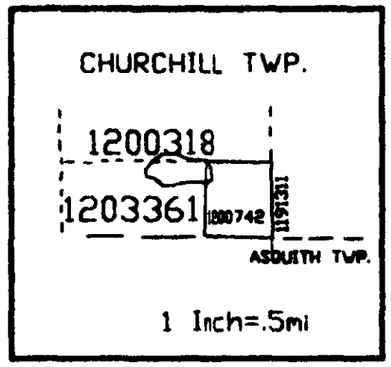
MAP: GROUP 3-C

Peter J. Hawley Permit K 22209

TRINITY EXPLORATIONS PROPERTY
VLF ELECTROMAGNETIC SURVEY Freq: 24.0 kHz Cutler, USA, VLF-3a BLOCK 3
ASQUITH TWP. CHURCHILL TWP. ONTARIO, OCT, 1995
PETER J. HAWLEY







LEGEND

7 Mafic Intrusive Rocks
- 7a Diabase
- 7d Diabase Glomerophyritic

3 Felsic Metavolcanic Rocks
- 3a Flows,Massive Lavas
- 3c Flows,Aphanitic,Foliated

2 Intermediate Metavolcanic Rocks
- 2a Flows,Massive,fine to medium grained
- 2b Flows Pillowed Lavas

1 Mafic Metavolcanic Rocks
- 1a Flows,Massive,fine to medium grained
- 1b Flows,Massive,coarse-grained
- 1c Flows,Pillowed Lavas
- 1d Flows,Porphyritic Lavas
- 1e Flows,Foliated Lavas

Observed displacement

TRINITY EXPLORATIONS PROPERTY

PROSPECTING and GEOLOGY PG-3
BLOCK 3

CHURCHILL TWP.
ONTARIO. OCT, 1995

PETER J. HAWLEY

Peter J. Hawley Permit K22209