

2H04SW8189 2.10946 ORBIT LAKE

GEOLOGICAL REPORT

ON THE

LAC DES ISLES PROPERTIES

THUNDER BAY MINING DISTRICT

FOR

IMPERIAL PLATINUM CORPORATION

bу

A.C.A. HOWE INTERNATIONAL LIMITED

RECEIVED

Petras Eitutis, Geologist and Ron Zinn, Project Geologist MAR 2.1 1988

MINING LANDS SECTION

N.T.S.: 54H/4 and 52A/13

Claim Maps: G-2508, G-739, G-748, G-758 and G-2512

Lat. 48°58'N to 49°12'N; Long. 89°32'W to 89°46'W

REPORT No. 557 January 18, 1988 Toronto, Ontario



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SUMMARY

Imperial Platinum Corporation holds a total of 192 claims consisting of five blocks of unpatented mining claims in the Lac Des Iles area. The property is located approximately 80 km NNW of Thunder Bay, Ontario in the Thunder Bay Mining District and is centered at 49°07'N and 89°39'W (NTS 54H/4, 52A/13). The 192 claims are divided into the following five blocks:

Demars Lake - 48 claims
Lac Des Iles East grid - 49 claims
Lac Des Iles West grid - 67 claims
Riviere Des Iles - 16 claims
South Angle Arm - 12 claims

The claims cover the periphery of the Lac des Iles mafic to ultramafic complex containing an orthomagnatic class platinum deposit. This complex is the largest of over 20 such mafic to ultramafic plutons, and contains the Boston Bay Mines deposit which is estimated to contain 22.5 million tonnes of palladium and platinum mineralization with an average grade of 6.25 grams per tonne Platinum Group Elements (PGE), with a platinum:palladium ratio of 1:7.

Geological mapping and geophysical surveys conducted by A.C.A. Howe International Limited, resulted in no significant mineralization on the areas mapped, however the Southeast Angle Bay property did show significant background values to justify a more detailed mapping of this claim group. Areas which were not mapped but do show magnetic anomalies should also be examined in more detail.

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1.0 INTRODUCTION

The following report summarizes the results of field work carried out on Imperial Platinum Corporation's Lac Des Iles properties from August 1987 to January 1988.

The authors of the report are Petras Eitutis and Ron Zinn, Geologists with A.C.A. Howe International Ltd., who assisted in the geological mapping surveys in the field, on behalf of Imperial Platinum Corporation. Mr. Ron Zinn was the Project Geologist for the Imperial Platinum Corporation programme. Assistance in the field work was provided by Mark Foerster, Wanda Neely and Kelly Parke. The geophysical surveys were conducted by Jeff Bisson, Brian Erickson, Gerry Lafortune and Peter Peschke.

The history and results of field work completed to date were obtained from assessment records filed with the Ontario Ministry of Northern Development and Mines, Toronto. A.C.A. Howe International Ltd. unpublished reports and research literature were also reviewed.

2.0 PROPERTY LOCATION, ACCESS AND TENURE

The five Lac des Iles properties are located approximately 80 km NNW of Thunder Bay, Ontario in the Thunder Bay Mining District centered at 49°07'N and 89°39'W (N.T.S. 54H/4 and 52°/13) (Fig. 1). Each of the five properties are wholly owned by Imperial Platinum Corporation and consist of a total of 192 non-patented mining claims. As summarized in table 1, these claims were recorded on May 28, 1986 and are presently under extension until January 29, 1988.

Access to the Lac des Iles West, Lac des Iles East, and the South Angle Arm properties are readily available by travelling on Highway 17 to Linko and then northeast on the Great Lakes Pulp and Paper Company logging roads in the Dog River area. The first property entered will be the Lake des Iles West grid. An alternate route from Thunder Bay is also possible by travelling 60 km north along Highway 527 and then commencing 10 km west along the new Madeline Mine road. This road enters the northwestern portion of the South Angle Arm grid.

The Demars Lake and the Riviere des Iles properties can be reached by helicopter from the Great Lakes Pulp and Paper Company logging road in the Dog River area.

General labour, food, fuel and supplies can be readily obtained in Thunder Bay, a city with a population of 120,000. As well, this city is an important railway centre, shipping port, and has a large airport.

TABLE 1
LIST OF LAC DES ILES PROPERTIES

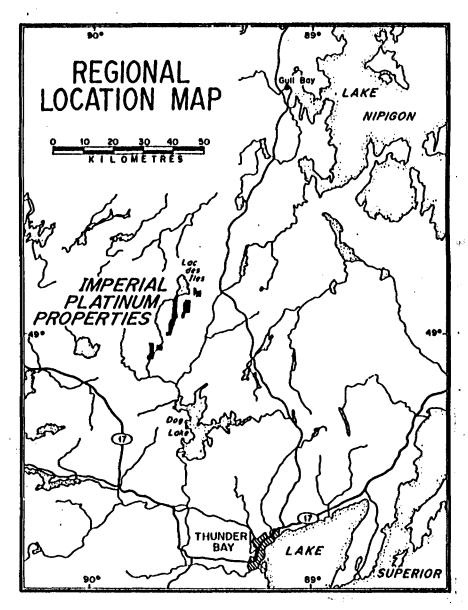
PROPERTY	CLAIM NUMBERS	NUMBER OF CLAIMS	RECORDING DATE
DEMARS LAKE	TB910004-910006		
	910022-910046		
	910167-910186	48	May 28,1986
LAC DES ILES EAST	TB909928-909943		
	910007-910021		
	910047-910064	49	May 28,1986
LAC DES ILES WEST	TB909887-909903		
	909927		
	909947-909958		
	909967-910003	67	May 28,1986
RIVIERE DES ILES	TB909959-909966		
	910127-910134	16	May 28,1986
SOUTH ANGLE ARM	TB909913-909916		
	909918-909925	12	May 28,1986

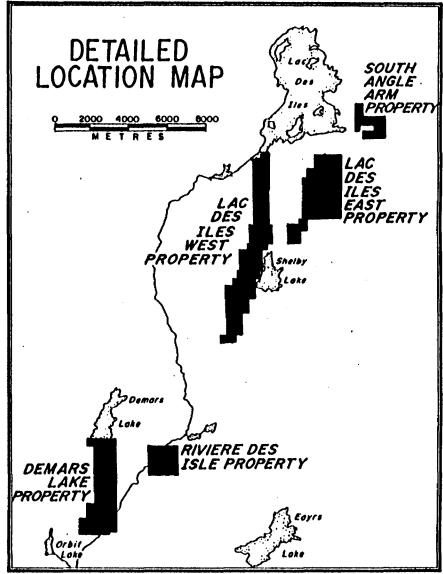
3.0 PHYSIOGRAPHY, CLIMATE AND RESOURCES

The topography of the Lac des Iles area varies from a fairly flat relief in some localities to a more rugged nature in other areas. The land surface as a whole slopes gradually toward the east (Pye, 1968). The Imperial Platinum Corporation group of claims are situated on gentle topography with an elevation ranging between 440 m and 520 m above sea level. Outcrops comprise about 5% of the properties area with the remainder of the area being covered by glacial deposits and lakes.

The climate is typical of Northern Ontario with long winters and short summers. The average mean daily temperature is usually in the range of 12°-14°c with winter temperatures as low as -40°c and summer temperatures as high as 30°c.

The area is well forested with a mixture of spruce, balsam, jackpine, poplar and birch. Good timber stands exist and at present are being harvested by Great Lakes Pulp and Paper Company. The lakes contain abundant pike and pickerel, and the area is populated by moose, bear, beaver, and partridge.





4.0 PREVIOUS WORK

The area was initially mapped in 1933 by F. Jolliffe of the Geological Survey of Canada. The first recorded exploration work was performed in 1958 by F.H. Jowsey Ltd. (Pye, 1968).

In 1963, copper-nickel sulphide mineralization was discovered south of Lac des Iles. Gunnex Ltd. acquired a large claim block over the area and conducted extensive surface exploration surveys and diamond drilling (Pye, 1968). Since that time the area has had sporadic exploration for base metals with most of the interest occurring on the Gunnex Ltd. property.

During 1966 Anaconda American Brass Ltd. conducted a diamond drilling program, and in 1967 the Canadian Nickel Company Ltd. drilled three holes in the northern part of Lac des Iles (Sutcliffe and Sweeny, 1985).

In 1970, an airborne electromagnetic survey was done over the area covering what now includes the Demars Lake, Riviere des Iles and the Lac des Iles West properties of Imperial Platinum Corporation (Poulsen, 1970). Also during that same year ground VLF and Magnetometer surveys were done over what is now part of the Lac des Iles West grid (Oja, 1970a, 1970b).

In 1973, the Gunnex property was restaked and in 1974 it was optioned to Boston Bay Mines Ltd.. This property contained what is known as the Roby zone.

In 1975 Texas Gulf Canada Ltd. optioned the property from Boston Bay Mines Ltd. and Barringer Research Ltd. conducted a combined magnetic and radiometric survey covering most of what is now the Lac des Iles East property, the central portion of the Lac des Iles West property, and the Northern portion of the Demars Lake property (Jagodits, 1975). A ground HEM survey was also conducted over what is now the central part of the Lac des Iles

West property (Sheridan, 1975). The Texas Gulf Canada Ltd. option lapsed in 1976 and no further work was done until Madeline Mines Limited optioned the property from Boston Bay Mines Ltd. in June 1986.

The Madeline Mines Roby zone is reported to have 22.5 million tonnes of platinum and palladium mineralization with an average grade of 6.25 grams per tonne PGE and a platinum:palladium ratio of 1:7. Recent geological mapping has indicated that the Pt and Pd mineralization is not restricted to the Roby zone suggesting that other intrusions in the vicinity have a potential for PGE mineralization (Goldie, 1987).

In late 1986 geological and geophysical surveys were completed by American Platinum Inc. on property joining the western boundary of the South Angle Arm grid. Values of 0.11 oz/ton (3.78 g/t) and 0.17 oz/ton (5.75 g/t) PGE from host rocks similar to those of the Roby zone and with the same Pt:Pd ratios were recorded (Saunders and Spencer, 1986).

5.0 PRESENT WORK

The 1987-88 exploration program on the five Lac des Iles claim groups consisted of linecutting, geological mapping, rock chip sampling, and geophysics (magnetometer and CRONE VLF). These properties were all mapped and prospected at a 1:2500 scale utilizing a cut and chained grid with a 100 meter line spacing and 25 meter stations. The lack of experienced line cutting crews resulted in delayed geophysical surveys and only a partial geological mapping of the claims. As well, uncertain ice conditions and the shutdown of the Annapolis VLF transmitter caused further delay in the completion of this program.

the grids and geophysical surveys were completed during January 1988. The geological mapping program is in various stages of completion, and was dependent on the amount of line cut before snowfall made mapping unfeasible. Of the geological mapping, all of the South Angle Arm group is complete. On the Demars Lake grid all claims except for the southeast and southwest claims of the southern boundary, TB910004, 910005, 910178, 910181, 910182, 910185, and 910186 have been geologically The geology on the Lac des Iles East grid is complete from the northern boundary to line 16 south. The Lac des Iles West grid also has geological mapping completed from the northern boundary of the claim group to line 36 south. The Riviere des Iles grid does not have complete coverage of claims TB910131, 910132, 910133, and 910134 due to an incomplete grid being cut.

A total of one hundred and six grab samples were assayed for platinum, palladium and gold throughout the grids.

6.0 GEOLOGY

6.1 General Geology

All five Imperial Platinum Corporation properties are within an east-north-east trending linear zone which extends for over 200 km from Atikokan Ontario, to Lake Nipigon (Fig. 2). This zone within the Wabigoon subprovince has over 20 mafic to ultramafic plutons and approximately parallels the boundary between the Quetico and Wabigoon subprovinces, two major subdivisions of the Superor province (Sutcliffe, 1986).

Iles complex is the largest of these mafic to des ultramafic plutons. This complex has an upright conical shape forming a circular structure approximately 30 km in diameter, and is composed of several mafic to ultramafic intrusions (Sutcliffe, 1986). The intrusions are late tectonic and intrude granitoid They are tholeiitic, and contain phases ranging from host rocks. ultramafic peridotitic and pyroxenitic cummulates to magnesian gabbronorite and iron-rich gabbro. Marginal zones rich in hornblendite occur around the perimeter of some intrusions and are interpreted to be due to contamination of mafic magma by a granitoid component (Sutcliffe, 1986).

Iles complex consists of an ultramafic intrusion The Lac des centered in Lac des Iles, and a gabbroic intrusion south of the lake. These rocks have not been significantly deformed or metamorphosed and intrude older gneissic tonalite. locally intrude the complex. The gabbroic rocks granitic phases of palladium-platinum, most important zones contain the mineralization found so far in the area, but, PGE occurrences have also been found in the ultramafic part of the complex (Sutcliffe and Sweeny, 1986).

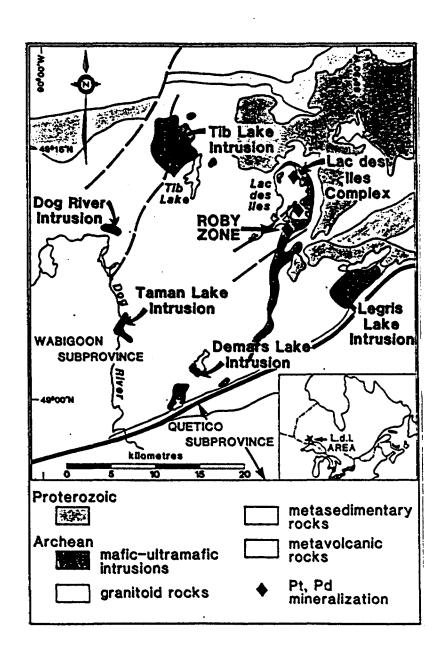


Figure 2: Lac des Iles Geology

Generalized Geological map of the Lac des Iles area showing the location and names of mafic to ultramafic intrusions from OGS MAP P.963 (after Sutcliffe, 1986).

The Demars Lake intrusion is a small elliptical plug, approximately 1 km wide, situated on the southwestern shore of Demars Lake. The body intrudes into a gneissic tonalite and consists of an ultramafic core of medium grained websterite, with a marginal zone of hornblende gabbro and hornblende pyroxenite (Sutcliffe, 1986).

The rocks between the Lac des Iles complex and the Demars Lake intrusion cause a pronounced aeromagnetic high extending southwest of Lac des Iles. Most of this magnetic anomaly is underlain by dioritic rocks. The hornblende gabbro phase of the Lac des Iles complex mapped by Sutcliffe and Sweeny (1986) grades, south of Hasson Lake, into hornblende diorite to quartz diorite with less than 35% ferromagnesian minerals. The dioritic rocks intrude gneissic biotite tonalite on the northwestern side of the structure and grade into biotite-hornblende quartz diorite and tonalite on the southeastern side (Sutcliffe, 1986).

6.2 Property Geology

The Demars Lake property is dominated by paragneiss to the northeastern section, grading to a biotite gneiss toward the western portion of the claim group. The gneiss is fine to medium grained and only shows a weak segregation of the mafic materials. Small areas of outcrop show a strong lineation of the biotites, but this is restricted to the northern portion of the property. The northwest boundary is composed of a large steep outcrop of medium grained pink granite. The central portion is composed of granitic gneiss to the west and swamps toward the east. south of the first swamp is a low ridge which is composed of granodiorite on the northern flank. The southern flank is composed of metasediments with areas of up to 5% sulphides. metasediments are striking in a northeasterly direction and dipping at approximately 60° to the south. The southern portion this property has two ridges of metasediments in the most southerly portion and a north-south diabase ridge. The remainder of the claim group is covered by swamps.

The Lac des Iles East property was only geologically mapped along the northern portion of the claim group. The northeastern section is predominantly a biotite rich granitic gneiss, grading to a pink granite toward the eastern shore of Mckenan Lake at the western boundary. The northwestern corner of this claim group was composed of a medium to coarse grained gabbro ridge. gabbro seemed to become finer grained at the base of the ridge, small areas of the dark green gabbro had blebs of disseminated sulphides. A number of diorite outcrops were also located at the southern portion of Mckenan Lake, and occurred eastward to the eastern claim boundary.

Only the northern portion of the Lac des Iles West grid was geologically mapped. The area is composed mostly of a pink to grey granite and granitic gneiss. A mafic dike cuts the central eastern portion of the mapped area. Numerous swamps are also observed throughout the central and southern portion of the mapped area.

The Riviere des Iles property is composed of a large medium to coarse grained green to black gabbro. The northwest boundary has a small outcrop of grey granitic gneiss to the west of a small lake. The central portion of the property is flat and extensively swamp covered with areas of mature pine forest. The southern portion is composed of metasediments and an east-west trending phyllite ridge. A small granitic ridge is encountered at the western boundary.

The South Angle Arm property is mostly composed of grey granite and biotite granite. The eastern portion is composed of a dark green gabbro. The central portion includes a granitic ridge. A sample from this ridge returned values of 338 ppb palladium and 29 ppb platinum.

6.3 ECONOMIC GEOLOGY

The main model used for platinum exploration in the Lac des Iles area is that of the Roby Zone. The gabbroic portion of the complex has been subdivided into an eastern gabbro and a western gabbro, interpreted as separate intrusive phases. The eastern gabbro consists of medium grained leucogabbro to gabbro with uralitic alteration to clinopyroxene. This phase is weakly layered due to the development of pyroxene rich horizons and locally has an igneous lamination. The western gabbro is predominantly a gabbronorite (Sweeny and Sutcliffe, 1986).

The mineralization occurs along the contact of the gabbronorite phase (western gabbro) and the evolved iron-and volatile-rich gabbro phases (eastern gabbro). This 60 m to 300 m wide magma mixing zone is heterogeneous and has units of coarse-grained to pegmatitic gabbro and gabbro breccia. The PGE are associated with disseminated and net-textured copper-nickel sulphides, as well as sulphide-bearing pegmatitic gabbro and gabbro breccias (Sweeny and Sutcliffe, 1986). However, the grade of PGE mineralization is relatively independent of the concentration of sulphide mineralization, which may be less than 1% of the rock (Sutcliffe, 1986).

The Demars Lake intrusion also has PGE associated with minor sulphide mineralization in websterite to gabbronorite (Sutcliffe, 1986).

In summary, the key geological features associated with the potential for PGE in this area are: The identification of zones of magma mixing, the presence of coarse-grained or pegmatitic rocks, and an association with disseminated and net-textured sulphides (Sutcliffe, 1986).

7.0 GEOPHYSICS (Magnetometer and VLF-EM Maps - back pocket)

7.1 Magnetics

In general, the results from the Barringer Proton Magnetometer survey can be related to the surface geology. An overall low of less than 1000 gammas corresponds to the granitic rocks. Metasediments and metavolcanics can vary greatly with higher magnetic trends corresponding to gabbroic intrusions.

Contacts between the gabbro and surrounding gneissic rocks or metavolcanics and metasediments were interpreted from the magnetic gradients between domains.

7.1.1 DEMARS LAKE GROUP

The Demars Lake group exhibits two distinct magnetic regimes reflecting the bedrock change from metasedimentary paragneiss to in the north, and a volcanosedimentary package in the The implied contact is at approximately line 28 south. The northern section shows a north trending pattern with a low trough from the north west corner to the south west shore of the Northeast of the trough are north lake at line 13 south. striking metasedimetary paragneisses whose magnetic pattern is probably due to segregation of ferromagnesian minerals. Southwest of the trough is the east flank of a hornblende diorite body whose magnetic pattern is probably due to magnetic iron sulphide and oxides zones within the intrusion.

This southern metasedimentary regime shows a northeast magnetic trend which is generally flat except for diabase dykes and an iron formation both of which are topographic highs. This location has some potential for gold mineralization, especially where the iron formation appears to be sheared at line 43 south along the baseline.

7.1.2 LAC DES ILES EAST GROUP

The magnetic survey indicates three distinct magnetic regimes in the Lac des Iles East group. These are generally north of line 10 south, from line 10 south to line 31 south, and south of line 31 south.

The northern regime is flat except for several spot anomalies of about 500 gammas. This is what one would expect from a granite to granite gneiss. The extreme north west corner of the claim group covers the edge of the main Lac des Iles intrusion and shows up as an isolated magnetic high on our map.

The central area is a zone of elevated and highly disturbed magnetic response. Two features stand out within this area. first is interpreted to be the contact between the gabbro and the It runs from line 32 south, 7+50 west to late stage diabase. line 17 south, 5+00 east. The second feature, a zone of relative quiet within the magnetic high runs from line 16 south, 13+00 west to line 18 south, 3+00 east, and is about 150 to 200 meters While no outcrop was mapped in this area it is considered to be a possible zone of late stage magma mixing where most of the magnetic minerals have already settled out. It could also be a pegmatitic gabbro. Both possibilities are for PGE targets exploration. The southern portion of the claim group is apparently underlain by granite and granite gneiss. The magnetic response of this area agrees with this interpretation.

7.1.3 LAC DES ILES WEST GROUP

The magnetic survey indicates one area of interest being the southern corner of sheet 2 and the east margin of the property on sheet 3. The magnetic high is interpreted to be the fringe of the serpentinized olivine gabbro. The strong magnetic high on line 47 south to 50 south may be due to pyrrhotite or magnetite formed during serpentinization.

The magnetic high on the north east corner of the first and second sheet is mapped as a diabase dyke.

The rest of the property exhibits the type of response expected from granite gneiss and metasedimentary paragneiss.

7.1.4 RIVIERE DES ILES GROUP

The magnetic survey was successful in delineating the various lithologies all of which trend northeast. From the northwest to the southeast of the claim group, the low magnetic readings corresponds to granite. The +1000 gamma high magnetometer reading corresponds to the gabbro intrusive, the following low reading to the granite. The extreme high corresponds to the volcanosedimentary package.

The +10,000 gamma relative high magnetometer reading probably represents magnetite in the volcanics, and the other magnetic high in the southeast corner may reflect a lean iron formation in the metasediments.

7.1.5 SOUTH ANGLE ARM GROUP

Here the magnetic survey was successful in delineating the underlying lithologies. The magnetic high on the west edge of the property represents the peridotite serpentine gabbro body whereas the broad low over the rest of the property represents

granite and granite gneiss. The rare spot highs may represent segregated mafic minerals or small gabbroic intrusions within the granitic rocks.

7.2 VLF-EM

The results of the Crone Radem VLF-EM survey seem to reflect conductive overburden and areas of swamp rather than specific contacts. In the Riviere des Iles group this could be due to poor coupling with the VLF station.

7.2.1. DEMARS LAKE GROUP

The Demars Lake group exhibited a relatively flat VLF reading. Flat crossovers were apparent along the centre of the large lake from line 9 south to line 13 south and then continued along to line 17 south at 4+00 east. This is probably due to conductive overburden and topographic features. Weak crossovers corresponding to swamp locations were also observed along the baseline from line 20 south to line 24 south, and from the baseline to 2+00 east on lines 45 south to 49 south.

7.2.2 LAC DES ILES EAST GROUP

In general the VLF response was again quite flat throughout the property. There seemed to be very little correlation with the magnetometer readings, and any observed crossovers seemed to correspond to the location of swamps and lake edges. Weak crossovers were recorded from lines 2 south to 4 south at approximately 3+00 west, lines 0 to 3 south at 45+00 east, and lines 14 south to 16 south at 1+00 east. These crossovers are interpreted to be due to conductive overburden. Lines 19 south to 20 south at 4+00 west, and lines 24 south to 26 south at 6+00 west seem to be related to magnetometer readings of approximately +1000 gamma, and could be related to the diabase.

7.2.3 LAC DES ILES WEST GROUP

The VLF was again observed to be relatively flat and seemed to follow topographic features. This is especially apparent from line 18 south to 31 south, and line 38 south to line 44 south. Both of these areas are along a lake shore. The second lake has a swampy area at the southeast shore. The VLF crossovers follow a swamp from lines 7 south to 10 south at 4+00 east to 6+00 east, and line 13 south to line 14 south at 5+00 east.

7.2.4 SOUTH ANGLE ARM GROUP

The VLF results show a slight crossover on line 11 north to 13 north at 1+00 west, and at the northern shore of the west lake located at lines 6 north to 7 north. Both locations are associated with swampy areas, and the readings are interpreted as being due to conductive overburden. A third area associated with swamp is also located on lines 3 north to 0, at the base line to 1+00 west.

7.2.5 RIVIERE DES ILES

This group also seemed to have no correlation between the magnetic readings and the VLF values recorded. The magnetometer results show that the rock units were heading in a northeasterly direction. Since the grid was cut in a northsouth direction, poor coupling with the VLF station could have resulted in the relatively flat readings observed.

8.0 CONCLUSIONS AND RECOMMENDATIONS

The geological and geophysical surveys were successful in outlining areas of interest on the five claim groups. While the VLF response was less than exciting, it must be remembered that the targets being explored for do not have a great VLF response, and that in this case the primary purpose of the VLF survey was to outline structural features. The magnetometer survey correlated well with the geology that was mapped during the field season and the geological maps published by the Ontario government.

The Demars Lake group showed one target of interest in the southern portion of the claim group. This area was interpreted as being an iron formation within the metasediments. From the magnetometer contours a possible shear could be associated with this area.

The Lac des Iles East group had an area of interest in the central region which was interpreted from the highly disturbed magnetometer readings to be a possible area of magma mixing. This could be an important environment for the PGE's to concentrate in.

The Lac des Iles West group also had one area of interest interpreted from the magnetometer survey. This magnetic high is in the southeast corner of sheet 2 covering the eastern margin of the property. It is interpreted to be a serpentinized olivine gabbro, and therefore a PGE target.

The Riviere des Iles group showed a magnetic high in the southeastern portion of the claim group. This was interpreted as being an iron formation in the metasediments and could be an important area for gold mineralization.

The South Angle Arm group seems to include part of the peridotite serpentine gabbro on the western portion. Just within the granitic gneiss contact the highest values of 338 ppb Pd and 29 ppb Pt were recorded. This could be of some interest since the adjoining property was recorded to have high values of PGE.

These areas of interest are to be investigated and mapped if only a geophysical survey was done. If the area has been mapped, then an extensive sampling program should be implemented.

CERTIFICATE

I, Petras Eitutis, of Toronto, in the Province of Ontario, certify as follows with respect to my report described below.

Geological Report
On The
Lac des Iles Properties
Thunder Bay Mining District
For
Imperial Platinum Corporation
by
A.C.A. Howe International Limited

- 1. I am a geologist residing at 26 Caroline Avenue, Toronto, Ontario, M4M 2X7.
- 2. I graduated from the University of Windsor, Windsor, Ontario in 1984 with a B.A.Sc. in Geological Engineering.
- 3. I have worked as a geologist since April, 1985.
- 4. The accompanying report is based on: field data compiled during 1987, published information available from the Ontario Ministry of Northern Development and Mines and an unpublished report by A.J. Willy for Imperial Platinum Corporation.
- 5. I have no interest, nor do I expect to receive any, either direct or indirect, in either the properties or securities of Imperial Platinum Corporation.

Petras Eitutis

CERTIFICATE

- I, Ronald Allan Zinn, of 715 Don Mills Road, Don Mills, Ontario hereby certify that:
- 1. I have been employed since March 1987 as a geologist at A.C.A. Howe International Ltd., Mining and Geological Consultants with offices at Suite 400, 199 Bay Street, Toronto, Ontario, M5J 1L4.
- 2. I am a graduate from the University of Waterloo, Waterloo, Ontario, with a Bachelor of Science (1978) degree in Earth Sciences.
- 3. I have practiced my profession since graduation in the field Mineral Exploration for base, precious and industrial minerals and precious gems in Canada, Alaska and Greenland.
- 4. This report is based on data observed in the field and consultation with other personnel involved, published information available from the Ontario Ministry of Northern Development and Mines and an unpublished report by A.J. Willy for Imperial Platinum Corporation.
- 5. I have no interest, nor do I expect to receive any, either direct or indirect, in either the properties or securities of Imperial Platinum Corporation.

Ron Zinn, B.Sc.
2ual 2.4971

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Trends In The Distribution Of The Precious and Watkinson, D.H. Metals In The Lac des Iles Complex, Northwestern Ontario. Canadian Mineralogist, Vol. 22, pp. 125-136

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Report of Work

DUCUMENT NO.

(Geophysical, Geological W8004. Geochemical and Expenditures)

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Report of Work

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I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true. Name and Postal Address of Person Certifying PETER G. EITUTIS, 26 CAROLINE AVE. TORONTO, ONT.

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SOUTHEAST ANGLE BAY - line cutting, geophysics, and geology

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Ministry of Northern Development and Mines

Report of Work

(Geophysical, Geological, W8804 Geochemical and Expenditures)

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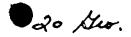
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Ministry of Northern Development and Mines

Report of Work

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Branch Director

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LAC DES ILES WEST - line cutting and geophysics

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LAC DES ILES WEST - geology

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	AKE G-2508		Mining Act	 -	in the "Expend. Days Do not use shaded areas	Cr." co imns.
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and enter total(s) here	- Magnetometer				Ġ.	
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credits do not apply to Airporne Surveys	Magneton ete-		The last			
to A roome surveys	Raciometric				MH (8) . 1888 X	
Expenditures (excludes pow		1.				
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Total Expenditures		s Credits			PASS	
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Instructions Total Days Credits may be a	pportioned at the claim f	nolder's			report of work.	
choice. Enter number of day in columns at right.	s credits per clain: selecti	eđ	For Office Use C		Minima Recorder	
			Recorded Ocens	42118	Catherine	Ollan
Dare Jan 18/88 Recorded Holder of Agent 'Signature' Jan 18/88 Lets State Oct Resided Branch Director Oct Resided Branch Director						
Certification Verifying Report of Work						
I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.						
Phanie and Postal Andress of Per	son Certifying			DUTED:	6	
I PEIER G. EITT	us, Z6 CAK	OLINE	AVE., TORONTO,		Certified by (Signature)	
			Jan 18/	88	Lets Ette	
1362 (65-12)						

DEMARS LAKE - geology

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<u>DEMARS LAKE</u> - line cutting and geophysics

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INFERIAL PLATIE	NUN CORPORATION				T-4745	
	SUITE 4-00, TORC	ATTO, OTA		114		•
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Enter 20 days (for each)	- Other		`			
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Instructions					claims covered by this report of work.	48
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<u></u>		100				
Certification Verifying Repo	·	edge of the facts set	forth in the Report	of Work appea	ed hereto havino performe	d the work
or witnessed same during and	i/or after its completion and t			or THUIK BILLIER	nereto, naving periorne	- 1 1701 K
Name and Postal Address of Per-	son Certifying TS. 21 CARAL	ING AVE	TORONTO,	ONTARI	o	
12.00	NS, 26 CAROL		Date Certified		Certified by (Signature)	
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<u>DEMARS LAKE</u> - geology

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DEMARS LAKE - line cutting and geophysics

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Ministry of Northarn Development and Mines

Report of Work

(Geophysical, Geological, Geochemical and Expendit res 8804.

DOCUMENT No.

Instructions. Please type or print. If number of mining claims traversed exceeds space on this form, attach a list.

Only days credits calculated in the columns.

.DI. EAST		Mining Act 2 · 109	7.6	"Expenditures" in the "Expe — Do not use shad	nd. Days Cr."
GEOLOGICAL, GEOPHYSIC	CAL CHAGO	vLF-En)		NES ILES	6 739

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GEOLOGICAL, GEO	OPHYSICAL (1	TAG +	VLF -	En)		LAC K	PES ILES	67	39
Claim Holder(s) Prospector's Licence No. T-4745									
199 BAY STREE	T , SUITE 400	, TORG	י מומים				÷		
Survey Company A.C.A. HOWE INTE	_	_)	Da	te of Survey 06 8	from & to) 7 /r. Qay	01 88 T	otal Miles of lin	re Cut Km
Name and Address of Author (o PETER G. EITU	TIS, - 26 CA	ROLINE	AVE	., TU	conto,	ONTAR	10 M	411 2	
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	Geochemical							:::: ₹	ER VE
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Type of Work Performed								建 基本	ris Ho 教 ri
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Calculation of Expenditure Days Credits									
Total Expanditures		Total Credits			•			Assert F. S	
\$	+ 15 =						claims cove		49
Instructions]		and the second second second		report of w	ork.	

Total Days Credits may be apportioned at the claim holder's For Office Use Only choice. Enter number of days credits per claim selected Total Days Cr. Date Recorded in columns at right. Recorded Holder or Agent (Signature) Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying 114M ONT. TURONTO CAROLINE AVE. EITUTIS

Date Certified 88

LAC DES ILES EAST - line cutting and geophysics

TB909928	TB910007	TB910047
909929	910008	910048
909930	910009	910049
909931	910010	910050
909932	910011	910051
909933	910012	910052
908934	910013	910053
909935	910014	910054
900936	910015	910055
90 937	910016	910056
900938	910017	910057
909939	910018	910058
909940	910019	910059
909941	910020	910060
909942	910021	910061
909943		910062
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HUNDER BAY

LAC DES ILES EAST - geology

Ministry of	Report of Work		structions: Please type or print.
Northern Developme and Mines	ent	DUCUMENT No.	 If number of mining claims traversed exceeds space on this form, attach a list.
Ontario	Geochemical and Exp	endit rev8804	Note: - Only days credits calculated in the "Expenditures" section may be entered
. O.T. El	AST- William & Out	Mining Act 2 - 1094-	6 - Do not use shaded areas below.
GEOLOGICAL, GE	EOPHYSICAL CHAG		LAC DES ILES G 739
Claim Holder(s) INFERIAL PLATIN	NUM CORPORATION		Prospector's Licence No. T - 4745
Address		RONTU, ONTARIO 115.	
Survey Company	A CAMP CONTRACT OF A CAMP CONTRA	Date of Survey	Ifrom & to) Total Miles of line Cut
	RNATIONAL LIMITE	Day Mo.]	of St. Day Mo. Yr. 80.5 Km
Name and Address of Author (of Geo-Technical report) UTTS - 21-CAROUI	VE AVE., TURONTO,	ONTARIO MAM 2X7
		Mining Claims Traversed (I	List in numerical sequence)
Special Provisions	Geophysical Days i		Expend. Mining Claim Expend. Days Co. Prefix Number Days Cr.
For first survey:	Electromagnètic 20		
Enter 40 days. (This includes line cutting)	- Magnetometer 40	0.50 80.30	
For each additional survey:	- Radiometric	455	
using the same grid:	Other		
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MINING LANDS	SECTION Geological		12 8 8 C
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credits do not apply			C3
to Airborne Surveys.			
Expenditures (excludes pow	Radiometric	J	
Type of Work Performed	rei stripping).	7	
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Performed on Claim(s)			
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Instructions			claims covered by this report of work.
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in columns at right.		Fotal Days Cr. Date Recorded	121/28 Catherine J. alland
Date / Re	ecogded Holder or Agent (Signatur	- 1 2920 San	T Recorded Branch Director
Jan 18/88 "	Pete Editi	8	The state of the s
Certification Verifying Repo			
	a personal and intimate knowledged ad/or after its completion and the		of Work annexed hereto, having performed the work
Name and Postal Address of Pe	rson Certifying	WE AUE TORONTO	ONT. 114M 2X7
JEICK G. EIII	VII) 1 Zb CAROLI	Date Certified	ONT. M4M 2X7 S/88 Certified by (Signature) Pete Chris
		Jan 18	1/88 Pete Etito
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LAC DES ILES EAST - Time cutting and geophysics

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900933	910012	<i>_</i> 910052~
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√900935°	v910014	910054
√900936 [√]	√910015°	910055
<i>अपू</i> 900937/	910016	910056
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RECEIVED
THUNDER BAY
MIRING DIVISION

LAC DES ILES EAST - geology

Ontario

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

		
Type of Survey(s) Man Township or Area Thora Claim Holder(s) Infe	PLATINUM CORP.	MINING CLAIMS TRAVERSED List numerically
Author of Report PETR	AUGUST 87 - FEB 88 (linecutting to office)	(prefix) (number)
	Geophysical Electromagnetic 20 Magnetometer 40 Radiometric	
Res. Geol. Previous Surveys File No. Type	Qualifications M this file Date Claim Holder	
		···· TOTAL CLAIMS 192

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS - If more than one survey, specify data for each type of survey

St Pr	aumber of Stations NAG VLF Number of Readings NAG VLP ation interval 25 heter Line spacing 100 meter ofile scale VLF 1cm = 20%
C	ontour interval NAGNETICS: 100 NT and 1000 NT
MAGNETIC	Instrument EPA MAG Accuracy – Scale constant ± hT Diurnal correction method BASELINE CHECK - IN Base Station check-in interval (hours) hr Base Station location and value N/A
ELECTROMAGNETIC	Instrument CRONE RADEM VLF-EN RECEIVER Coil configuration ONE COIL Coil separation N/A
MAC	Accuracy DIP ANGLE = 1 120 FIELD CTRENCTH = \$\frac{1}{2}\frac{1}{6}\frac{1}{6}
CTRO	Method: Fixed transmitter Shoot back In line Parallel line
ELE	Frequency ANAPOLIS, THRY LAND (21.4 KHZ) (specify V.L.F. station) Parameters measured DIP ANGLE and FIELD STRENGTH
	Instrument
	Scale constant
AVITY	Corrections made
GRA	Base station value and location
	Elevation accuracy
	Instrument
	Method
	Parameters - On time Frequency
Ħ	- Off time Range
IVI	- Delay time
RESISTIVITY	- Integration time
RE	Power
	Electrode array
	Type of electrode

INDUCED POLARIZATION



SELF POTENTIAL Instrument_____ Range _____ Survey Method _____ Corrections made RADIOMETRIC Instrument Values measured Energy windows (levels) Height of instrument ______Background Count _____ Size of detector_____ Overburden____ (type, depth - include outcrop map) OTHERS (SEISMIC, DRILL WELL LOGGING ETC.) Type of survey_____ Instrument _____ Accuracy____ Parameters measured_____ Additional information (for understanding results) AIRBORNE SURVEYS Type of survey(s) Instrument(s) _____ (specify for each type of survey) Accuracy____ (specify for each type of survey) Aircraft used_____ Sensor altitude_____ Navigation and flight path recovery method _____ Aircraft altitude_____Line Spacing______ Miles flown over total area_____Over claims only_____

GEOCHEMICAL SURVEY - PROCEDURE RECORD



Numbers of claims from which samples taken	
Total Number of Samples	ANALITICAL METHODS
Type of Sample(Nature of Material) Average Sample Weight	p. p. m. □ p. p. b. □
Method of Collection	Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle)
Soil Horizon Sampled	Others
Horizon Development	Field Analysis (tests)
Sample Depth	Extraction Method
Terrain	
	Reagents Used
Drainage Development	Field Laboratory Analysis
Estimated Range of Overburden Thickness	No. (tests
	Extraction Method
	Analytical Method
	Reagents Used
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (tests
Mesh size of fraction used for analysis	Name of Laboratory
,	Extraction Method
	Analytical Method
	Reagents Used
General	General

RIVIERE DES ILES - line cutting, geophysics, and geology

TB909959	TB910127
909960	910128
909961	910129
909962	910130
909963	910131
909964	910132
909965	910133
909966	910134

SOUTHEAST ANGLE BAY - line cutting, geophysics, and geology

<u>DEMARS LAKE</u> - geology

TB910022	TB910167
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910024	910169
910025	910070
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<u>DEMARS LAKE</u> - line cutting and geophysics

TB910004	TB910022	TB910167
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<u>LAC DES ILES EAST</u> - line cutting and geophysics

TB909928	TB910007	TB910047
909929	910008	910048
909930	910009	910049
909931	910010	910050
900932	910011	910051
900933	910012	910052
900934	910013	910053
900935	910014	910054
900936	910015	910055
900937	910016	910056
900938	910017	910057
900939	910018	910058
900940	910019	910059
900941	910020	910060
900942	910021	910061
900943		910062
		910063
		910064

LAC DES ILES EAST - geology

LAC DES ILES WEST - line cutting and geophysics

TB909887	TB909927	TB909967
909888	18909921	909968
909889	TB909947	909969
909890	909948	909970
909891	909949	909971
909892	909950	909972
909893	909951	909973
909894	909952	909974
909895	909953	909975
909896	909954	909976
909897	909955	909977
909898	909956	909978
909899	909957	909979
909900	909958	909980
909901		909981
909902		909982
909903		909983
		909984
		909985
		909986
		909987
		909988
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	* .	909990
	•	909991
	•	909993
		909994
		909995
		909996
		909997
	•	909998
	•	909999
		910000
		910001
		910002
	·	910003

LAC DES ILES WEST - geology



Technical Assessment Work Credits

Date

April 8, 1988

2.10946 Mining Recorder's Report of Work No.

W8804-23

Recorded Holder		
	Imperial Platinum Corporation	
To XXXXXX Area		
	Shelby Lake	

Тожжжжж Area Shelby Lake	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic days	TB 909960 to 965 inclusive
Magnetometer days	
Radiometric days	
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geologicaldays	
Geochemicaldays	
Man days Airborne	
Special provision X Ground X	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following	ng mining claims
15 days	5 days
TB 909959-66 910127	TB 910133
No avadite have been allowed for the following with	a daima
No credits have been allowed for the following mining not sufficiently covered by the survey	insufficient technical data filed
_	
TB 910134	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



Technical Assessment Work Credits

	2.10946
Date	Mining Recorder's Report of Work No.
April 8, 1988	W8804-23

File

ecorded Holder	Imporial	Platinum	Cannana	tion		
KXXXXXX Area			corpora	LION		
	Shelby L	<u>ake</u>				The state of the s
Type of surv Assessment da	y and number of ys credit per claim				Min	ning Claims Assessed
Geophysical	20					
Electromagnetic	20	days	TB	909960 to	965 i	inclusive
Magnetometer	40	days		910128 to	130 i	inclusive
Radiometric		days				
Induced polarization		days				
Other		days				
Section 77 (19) See "Mil	ning Claims Assessed	d" column				
Geological		days				
Geochemical		days				
Man days	А	irborne 🔲				
Special provision X	ı	Ground 🔀				
Credits have been recoverage of claims.	luced because of pa	rtial				
Credits have been red to work dates and fig		rrections				
	or of oppriount			•		
ecial credits under sect	on 77 (16) for th	e following m	ining claims	}		
15 days Ele 30 days Mag	ctromagneti netometer	c		Electroma Magnetome		ic 5 days Electromagnetic 10 days Magnetometer
TB 90999			ТВ	910131-32		TB 910133-34
91017	.,					
andita have been street	and fam the felter	uina mainten -t				
credits have been allow				technical data fil	ed	
		L			_	

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



Technical Assessment Work Credits

	2.10946
Date	Mining Recorder's Report of
April 8, 1988	Work No. W8804-25

File

	·
Recorded Holder Imperial Platinum Corporation	
ተራኤኤኤኤኤኤኤor Area Lac Des Iles Lake	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical 20	10 303313-14-10
Magnetometerd	909918 to 925 inclusive
Radiometricd	
Induced polarization d	
Other d	
Section 77 (19) See "Mining Claims Assessed" colun	
Geological d	
Geochemical	
Man days Airborne	
Special provision 🔀 Ground	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of correction to work dates and figures of applicant.	
Special credits under section 77 (16) for the following mining claims	
30 da,	ys Electromagnetic ys Magnetometer ys geological
	ΓB 909915
No credits have been allowed for the following mining claims	
not sufficiently covered by the survey	insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



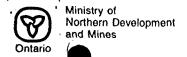
File	
2.	10946

Date April 8, 1988 Mining Recorder's Report of Work No. W8804-28

Type of	survey and number of	Mining Claims Assessed	
Tomitsiap Di Ai da	Lac Des Iles Lake a	and Shelby Lake	
POKINIKAXX Area	Imperial Platinum (Corporation	

Lac Des Iles Lai	e and Shelby Lake	
Type of survey and number of Assessment days credit per claim	Mining Claims	Assessed
Geophysical		
Electromagnetic days	TB 909887 to 889 inclus	ive
40	909891 to 903 inclus	
Magnetometer days	909927	,,,,,,
Radiometric days	909947 to 958 inclus 909968 to 979 inclus	
	000001_82	
Induced polarization days	909984 to 997 inclus	si ve
Other days	909999 to 910003 inc	clusive
Section 77 (19) See "Mining Claims Assessed" column		
Geological days		
Geochemical days		
Man days Airborne Airborne		
Special provision X Ground X		
Credits have been reduced because of partial coverage of claims.		
Credits have been reduced because of corrections to work dates and figures of applicant.		
•		
		į
Special credits under section 77 (16) for the followin	g mining claims	
5 days Electromagnetic	10 days Electromagnetic	15 days Electromagnetic
10 days Magnetometer	20 days Magnetometer	30 days Magnetometer
TB 909980	TB 909967-83	TB 909998
No credits have been allowed for the following minin	g claims	
not sufficiently covered by the survey	insufficient technical data filed	
	TB 909890	
		ļ

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



File

2.10946

Date

April 8, 1988

Mining Recorder's Report of Work No. W8804-28

Imperial Platinum Corporation			
TOXXXXXXXXX Area Lac Des Iles Lake and Shelby Lake			
Tupo of surviva and number of			
Assessment days credit per claim	Mining Claims Assessed		
Geophysical			
Electromagnetic day	TB 909968 to 978 inclusive		
Magnetometer day	909981-82-84-85		
Radiometric day	s		
Induced polarization day			
Other day	S		
Section 77 (19) See "Mining Claims Assessed" column			
Geological 20 day			
Geochemicalday	·		
Man days Airborne			
Special provision K Ground [X			
Credits have been reduced because of partial coverage of claims.			
Credits have been reduced because of corrections to work dates and figures of applicant.			
Special credits under section 77 (16) for the followi	ng mining claims		
10 days	5 days		
TB 909967-83	TB 909980		
No credits have been allowed for the following mini			
not sufficiently covered by the survey	insufficient technical data filed		



2.10946

April 8, 1988

Mining Recorder's Report of Work No. W8804-31

Imperial Platinum Corporation		
ፕሬአአኤአአን Area Shelby, Sénga, Orbit and Eayrs Lakes		
Type of survey and number of Assessment days credit per claim Mining Claims Assessed		
Geophysical 20		
Electromagneticdays TB 910004-05		
Magnetometer 40 910023 to 046 inclusive 910167 to 186 inclusive		
Radiometricdays		
Induced polarizationdays		
Other days		
Section 77 (19) See "Mining Claims Assessed" column		
Geologicaldays		
Geochemicaldays		
Man days [Airborne [
Special provision Ground Ground		
Credits have been reduced because of partial coverage of claims.		
Credits have been reduced because of corrections to work dates and figures of applicant.		
Special credits under section 77 (16) for the following mining claims		
5 days Electromagnetic 10 days Magnetometer		
TB 910022		
No credits have been allowed for the following mining claims		
not sufficiently covered by the survey [X] insufficient technical data filed		
TB 910006		



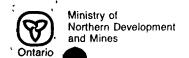
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Date

April 8, 1988

Mining Recorder's Report of Work No. W8804-31

pration
nd Eayrs Lakes
Mining Claims Assessed
TB 910023 to 029 inclusive 910034 to 036 inclusive
910034 to 030 inclusive 910039 to 045 inclusive 910167 to 177 inclusive
910179
ng mining claims
30 days
TB 910032-33-46 910184
ng claims
X insufficient technical data filed
TB 910186



File

2.10946

Date

. April 8, 1988 Mining Recorder's Report of Work No. W8804-32

Recorded Holder Imperial Platinum Corporation Area XXXXXXX Area Lac Des Iles Type of survey and number of Assessment days credit per claim Mining Claims Assessed Geophysical Electromagnetic ____ TB 909928 to 936 inclusive 909939 to 942 inclusive Magnetometer _____ Radiometric ... Induced polarization ______ days Section 77 (19) See "Mining Claims Assessed" column 20 Geological _____ Geochemical _____ Airborne 🗌 Man days 🔲 Special provision X Ground X Credits have been reduced because of partial coverage of claims. Credits have been reduced because of corrections to work dates and figures of applicant. Special credits under section 77 (16) for the following mining claims 10 days 5 days TB 909937 TB 909938

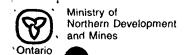
No credits have been allowed for the following mining claims

not sufficiently covered by the survey

X insufficient technical data filed

TB 909943

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



2.10946

Date

April 8, 1988

Mining Recorder's Report of Work No. W8804-32

Recorded Holder Imperial Platinum Co	pypovation
THIPETTAL PLACTION CO	οι μοι α στοιι
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic 20 days	TB 909928 to 937 inclusive
Magnetometer days	909939 to 943 inclusive 910007 to 021 inclusive 910047 to 060 inclusive
Radiometric days	910062 to 064 inclusive
Induced polarization days	
Other days	
Section 77 (19) See "Mining Claims Assessed" column	
Geologicaldays	
Geochemical days	
Man days Airborne	
Special provision (X)	
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of corrections to work dates and figures of applicant.	
Special credits under section 77 (16) for the following	mining claims
special credits under section 77 (10) for the following	Titining Claims
10 days	15 days
TB 900938	TB 910061
No credits have been allowed for the following mining	claims
not sufficiently covered by the survey	insufficient technical data filed
	,

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geologocal - 40; Geochemical - 40; Section 77(19) - 60.



2.10946

April 8, 1988

Mining Recorder's Report of Work No. W8804-32

Recorded Holder Imperial Platinum Co	rporation *	
T&&XXX እን Area Lac Des Iles		
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed	
Geophysical		
Electromagnetic days		
40	TB 909928 to 936 inclusive	
Magnetometer days	909939 to 943 inclusive	
Radiometricdays	910007 to 021 inclusive	
nationieti it uays	910047 to 060 inclusive	
Induced polarization days	910062 to 064 inclusive	
Other days		
Section 77 (19) See "Mining Claims Assessed" column		
Geologicaldays		
Geochemical days		
Man days Airborne		
Special provision X Ground X		
Credits have been reduced because of partial coverage of claims.		
Credits have been reduced because of corrections to work dates and figures of applicant,		
		į
Special credits under section 77 (16) for the following	mining claims	
<u>10 days</u>	20 days 30 days	
TB 909937	TB 909938 TB 910061	
No credits have been allowed for the following mining	claims	
not sufficiently covered by the survey	insufficient technical data filed	
	<u> </u>	
		-



Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

April 25, 1988

Your File: W8804-23,25,28,

31,32

Our File: 2.10946

Mining Recorder
Ministry of Northern Development and Mines
435 James Street South
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Notice of Intent dated April 8, 1988
Geophysical (Electromagnetic and Magnetometer) and
Geological Survey submitted on

Mining Claims TB 909887 et al in the Area of Shelby Lake

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager Mining Lands Section

Mines and Minerals Division

Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3

Telephone: (416) 965-4888

fg:H2

Enclosure: Technical Assessment Work Credits

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist Thunder Bay, Ontario

Imperial Platinum Corporation 199 Bay Street, Suite 400 Toronto, Ontario M5J 1L4



2.10946

Date

April 29, 1988

Mining Recorder's Report of Work No. W8804-31

Imperial Platinum Corpora	tion	
Shelby, Senga, Orbit and	Eayrs Lakes	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed	
Geophysical		
Electromagnetic days	TB 910023 to 029 inclusive 910034 to 036 inclusive	
Magnetometer days	910039 to 045 inclusive 910167 to 177 inclusive	
Radiometric days	910179	
Induced polarization days		
Other days		
Section 77 (19) See "Mining Claims Assessed" column		
Geological 20 days		
Geochemical days		
Man days Airborne		
Special provision [X] Ground [X]		
Credits have been reduced because of partial coverage of claims.		
Credits have been reduced because of corrections to work dates and figures of applicant.		
Special credits under section 77 (16) for the following m	ining claims	
10 days	15 days	
TB 910022-31-37-38 910183	TB 910032-33-46 910184	
No seedies have been allowed for the following minimal	aime	
No credits have been allowed for the following mining cl		
(X) not sufficiently covered by the survey	Insufficient technical data filed	
TB 910030	TB 910186	
•		İ
		i



Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

April 29, 1988

Your file: W8804-31 Our file: 2.10946

Mining Recorder
Ministry of Northern Development and Mines
435 James Street South
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

Re: Notice of Intent dated April 8, 1988 Geological Survey submitted on Mining Claims TB 910023 et al in the Areas of Shelby, Senga, Orbit and Eayrs Lakes

The assessment work credits, as listed on the attached statement, have been approved as of the above date.

This approval replaces the statement dated April 8, 1988 as there was a typographical error in this one technical data statement.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

W.R. Cowan, Manager Mining Lands Section Mines & Minerals Division

Whitney Block, Room 6610 Queen's Park Toronto, Ontario M7A 1W3 ONTARIO GEOLOGICAL SURVEY ASSESSMENT FILES OFFICE

MAY 6 1988

RECEIVED

SH:pl Enclosure

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Resident Geologist Thunder Bay, Ontario

Imperial Platinum Corporation 199 Bay Street, Suite 400 Toronto, Ontario M5J 1L4

REFERENCES

G.T.P. BLOCK Nº 3 PATENTED TO THE GRAND TRUNK RAILWAY Co. MARCH 31, 1909
REFERENCE 13929 AA WAS AMENDED BY O.C. 2403/51 (REFERENCE 105392) AND GRANTED BY QUIT CLAIM DEED DATED AUGUST 2, 1961 TO THE ABITIBL POWER AND PAPER Co. LTD. REFERENCE 115819 PARCELS PREVIOUSLY SOLD BY THE GRAND TRUNK PACIFIC RAILWAY Co. ARE UNDER THE ORIGINAL PATENT 13929 AA.

HIGHWAY

TRANS-CANADA HIGHWAY Nº.17 FROM D.H.O PLAN Nº. P-2564 (Through Robson Twp.)

RAILWAYS

CANADIAN NATIONAL RAILWAY (100'R/W) SURVEYED By E.R. BINGHAM O.L.S. JAN. 11, 1931 PLAN M3-1.

CANADIAN PACIFIC RAILWAY (132 R/W) SURVEYED BY J.W. CADDY O.L.S. MARCH 5, 1897 PLAN R16-26.

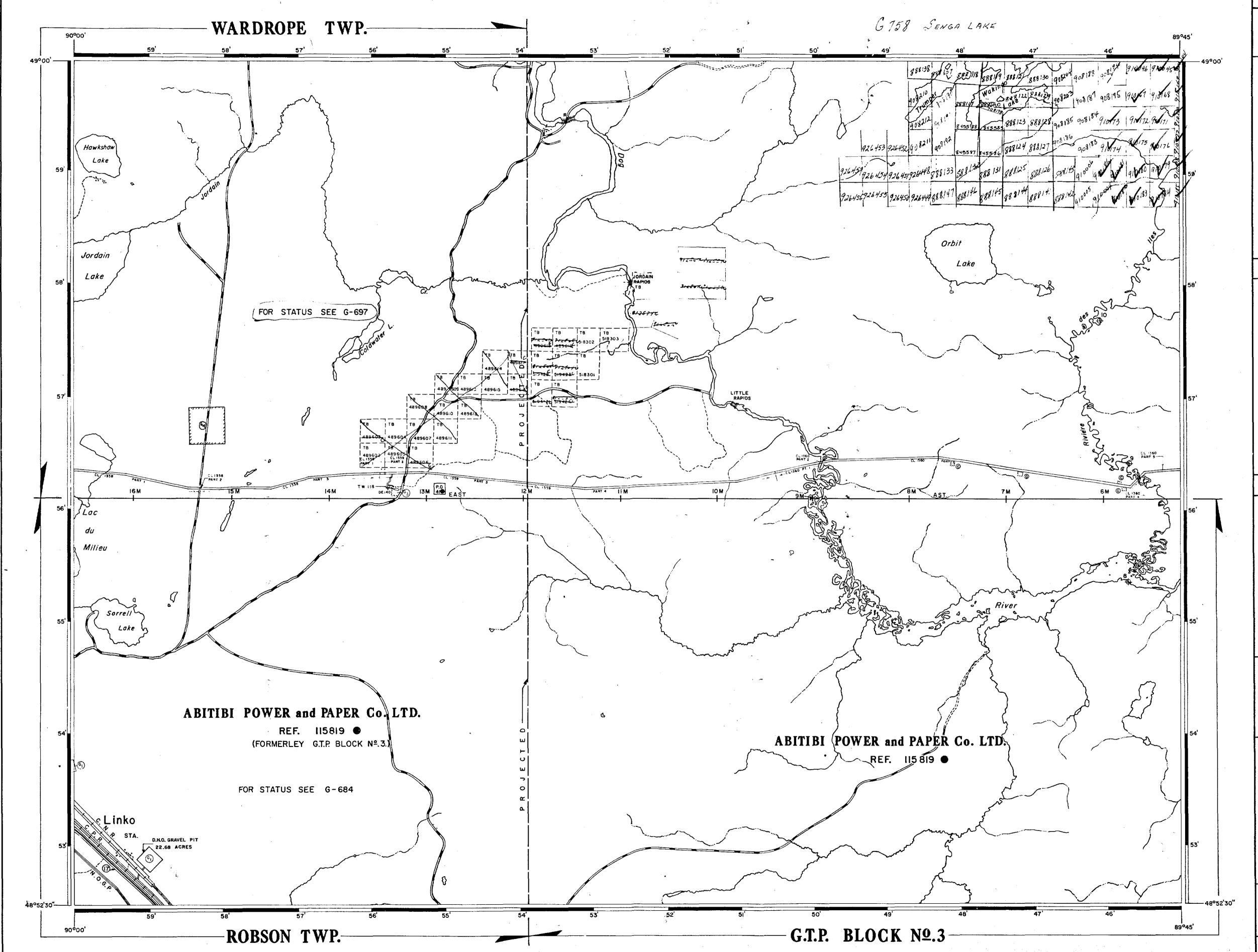
NORTHERN ONTARIO GAS PIPE LINE, CROWN CORP. Robson Twp. 65'r/w Surveyed by Phillips And Gavin O.L.S. 1958 (Plan Filed)

SAND & GRAVEL

- GRAVEL FILE 167153

M.T.C. GRAVEL PIT

- M.TC GRAVEL PIT Nº 678 FILE: 167153
- 3 QUARRY PERMIT



REFERENCES

TOPOGRAPHY

LAKES, RIVERS, ETC., FROM FOREST RESOURCES INVENTORY SHEET Nº. 488894

SURVEYS

ORIGINAL SURVEY OF G.T.P. BLOCK Nº 3 BY
T. FAWCETT O.L.S. 1907. FIELD NOTE BOOK Nº 2346.

TRAVERSE OF DOG RIVER AND RIVIERE DES ILES BY R.S. KIRKUP O.L.S. 1931 PLAN Nº. R.19-2

THUNDER BAY

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

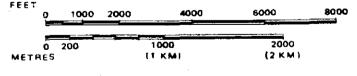
DISPOSITION OF CROWN LANDS

MARSH OR MUSKEG

TRAVERSE MONUMENT

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	

SCALE: 1 INCH = 40 CHAINS



ORBIT LAKE

M.N.R. ADMINISTRATIVE DISTRICT THUNDER BAY

MINING DIVISION
THUNDER BAY

LAND TITLES / REGISTRY DIVISION THUNDER BAY

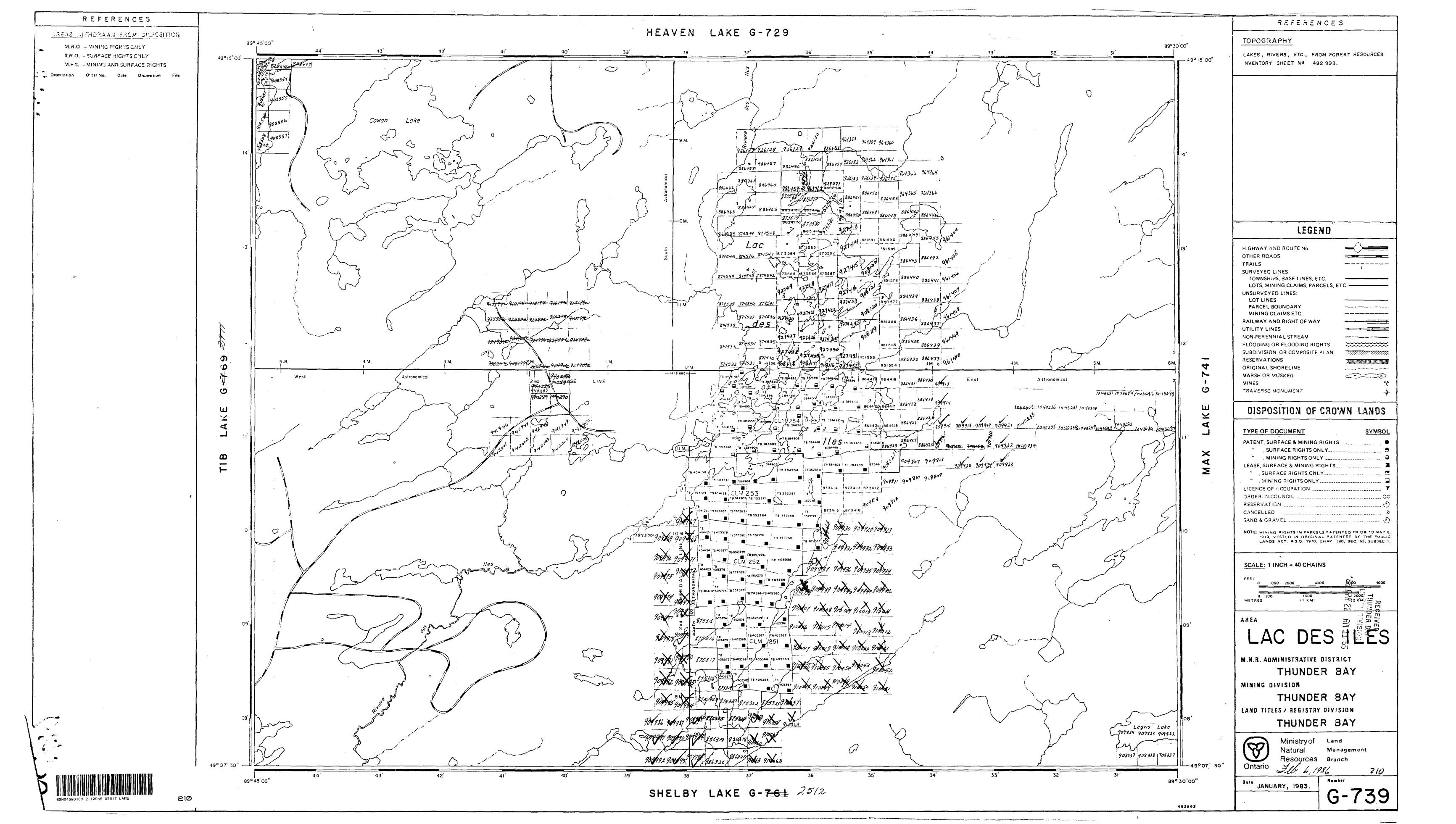


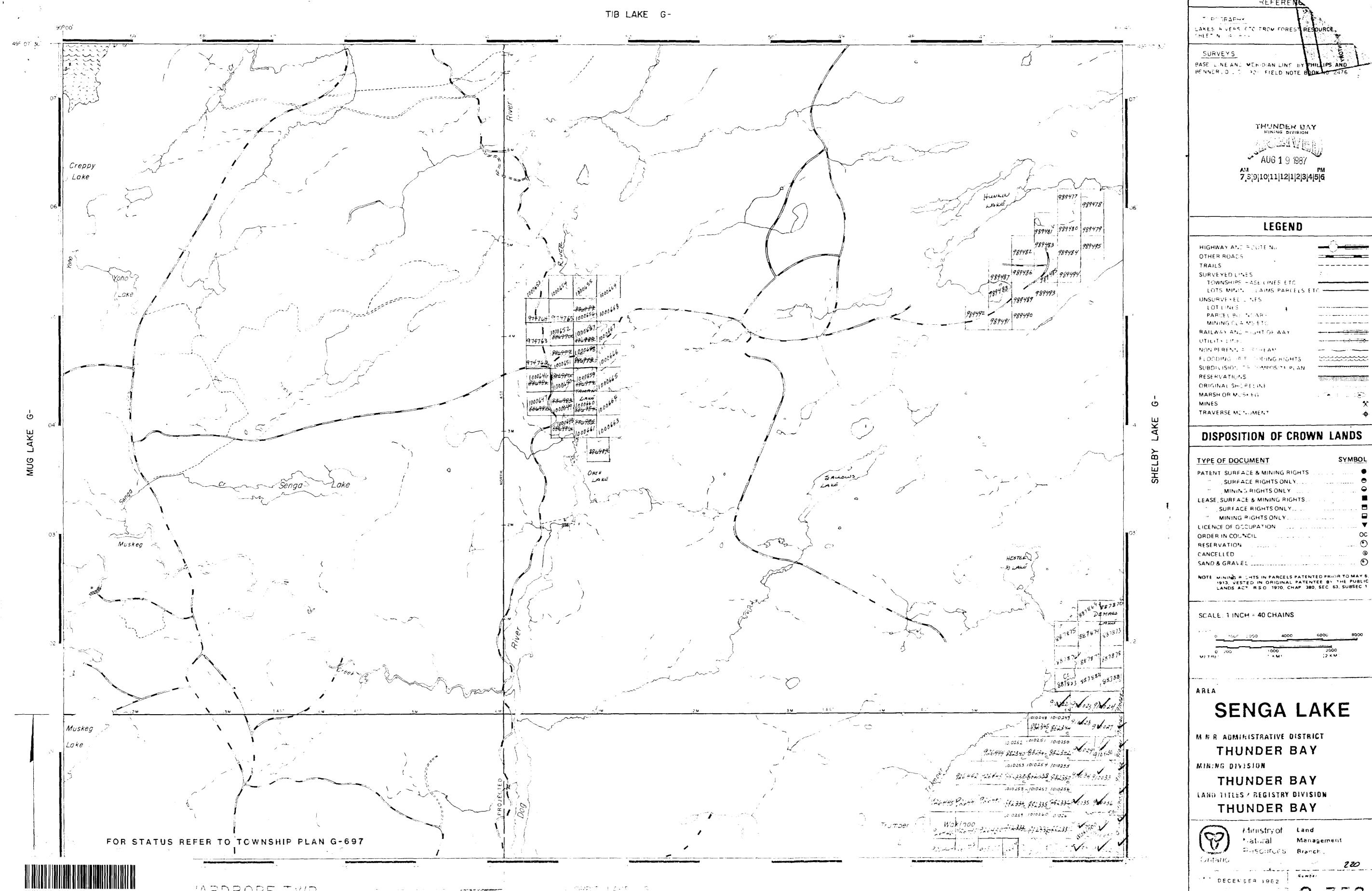
Ministry of Land

Natural Management Resources Branch

Sate NOVEMBER 1902

G-748 June 7, 1983

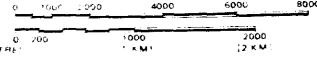




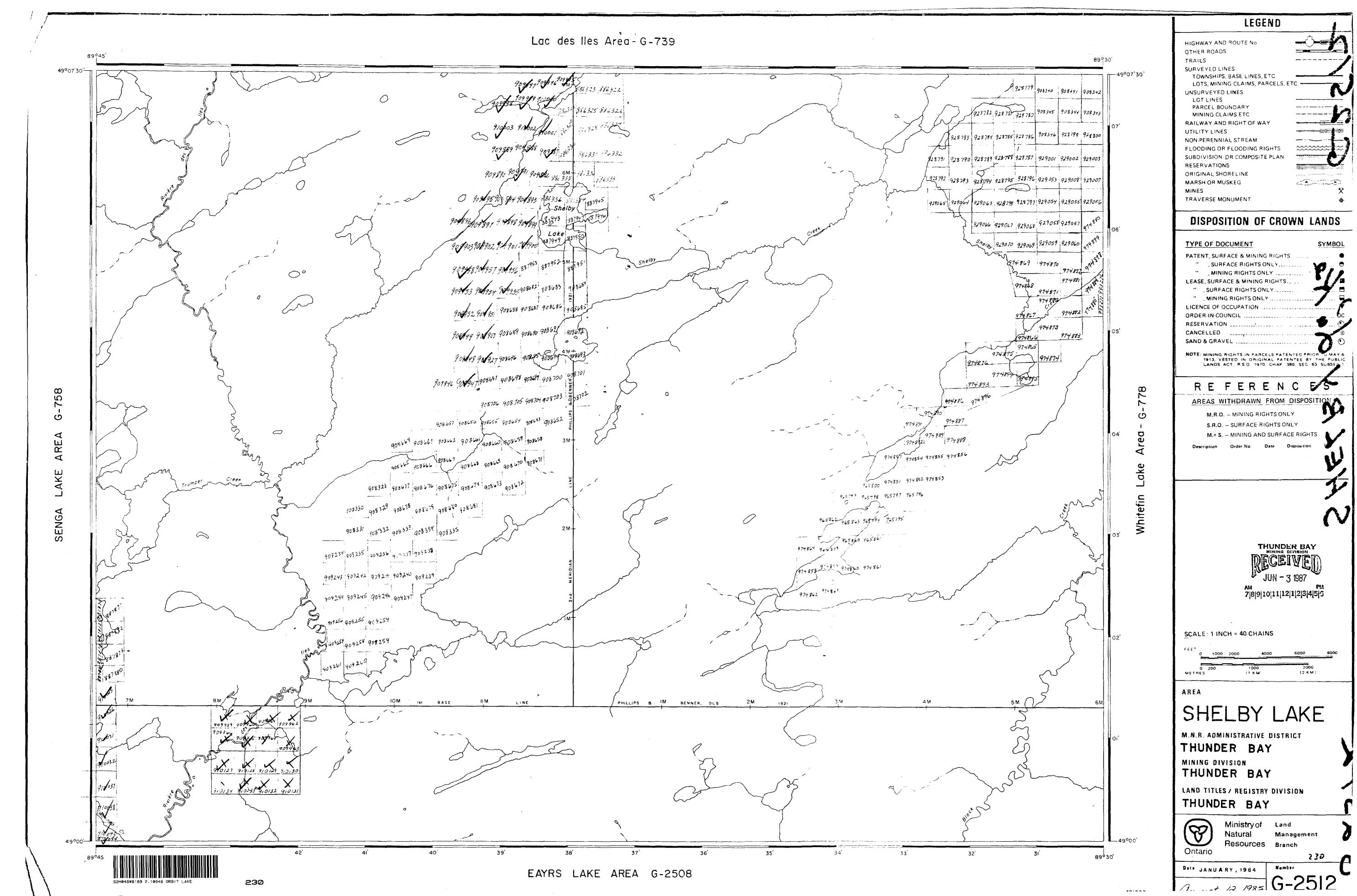
REFERENT

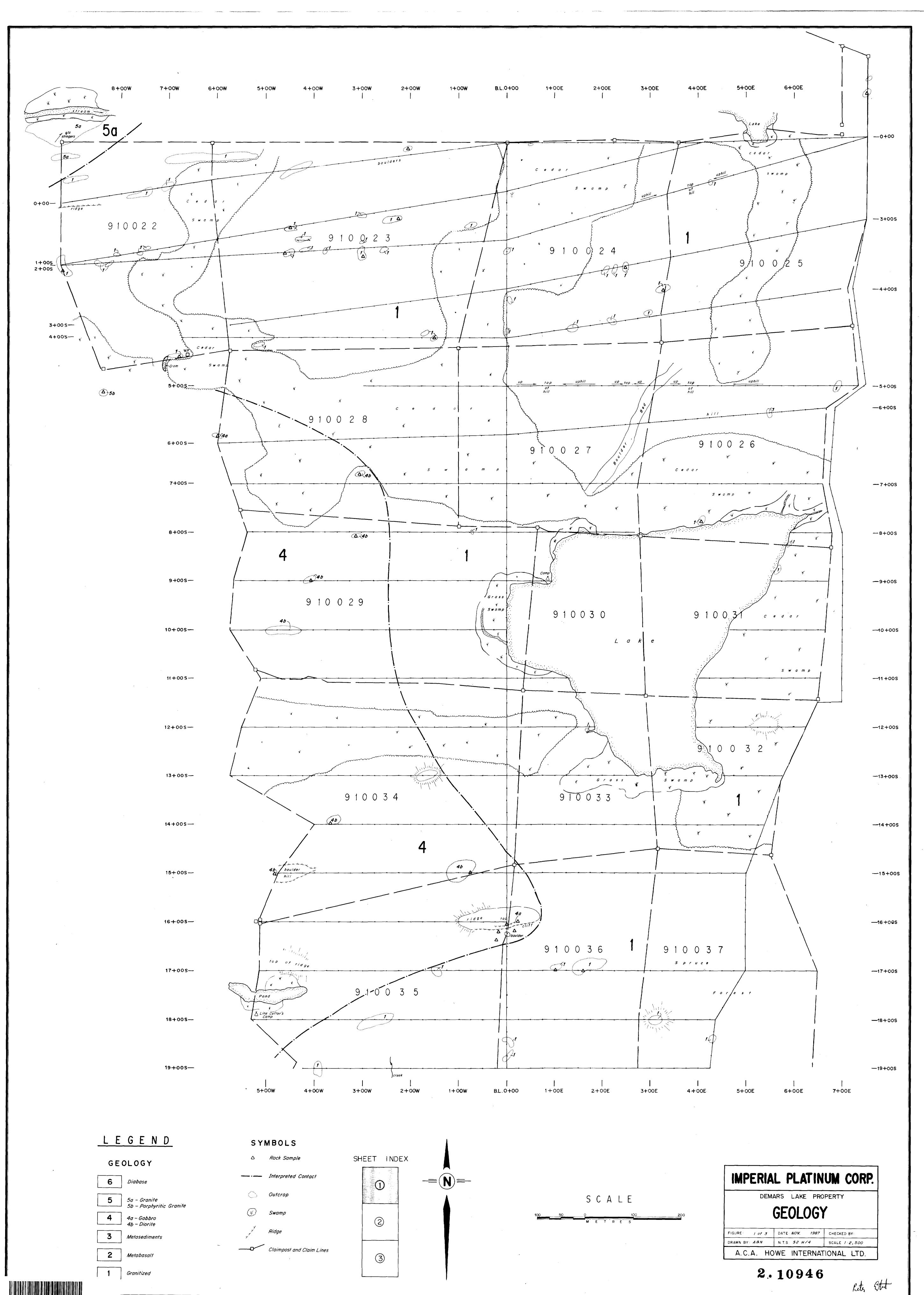
HIGHWAY AND FOUTE NO	
OTHER ROADS	
TRAILS	
SURVEYED LINES	1 -
TOWNSHIPS -ASE CINES ETC	
LOTS MINDS CLAIMS PARCELS E	TC
UNSURVEYEE _ NES	
LOTINES	
PARCEL BU NOAR	
MINING CLAMS ETC	
RAILWAY AND FIGHT OF WAY	
UTILITY (19.6)	
NON PERENT. # STREAM	
FLOODING OF FLOODING HIGHTS	
SUBDIVISION THE COMPOSITE PEAN	
RESERVATIONS	
ORIGINAL SHOPELINE	
MARSH OR MCS+ EG	
MINES	•
TRAVERSE MC*-UMENT	

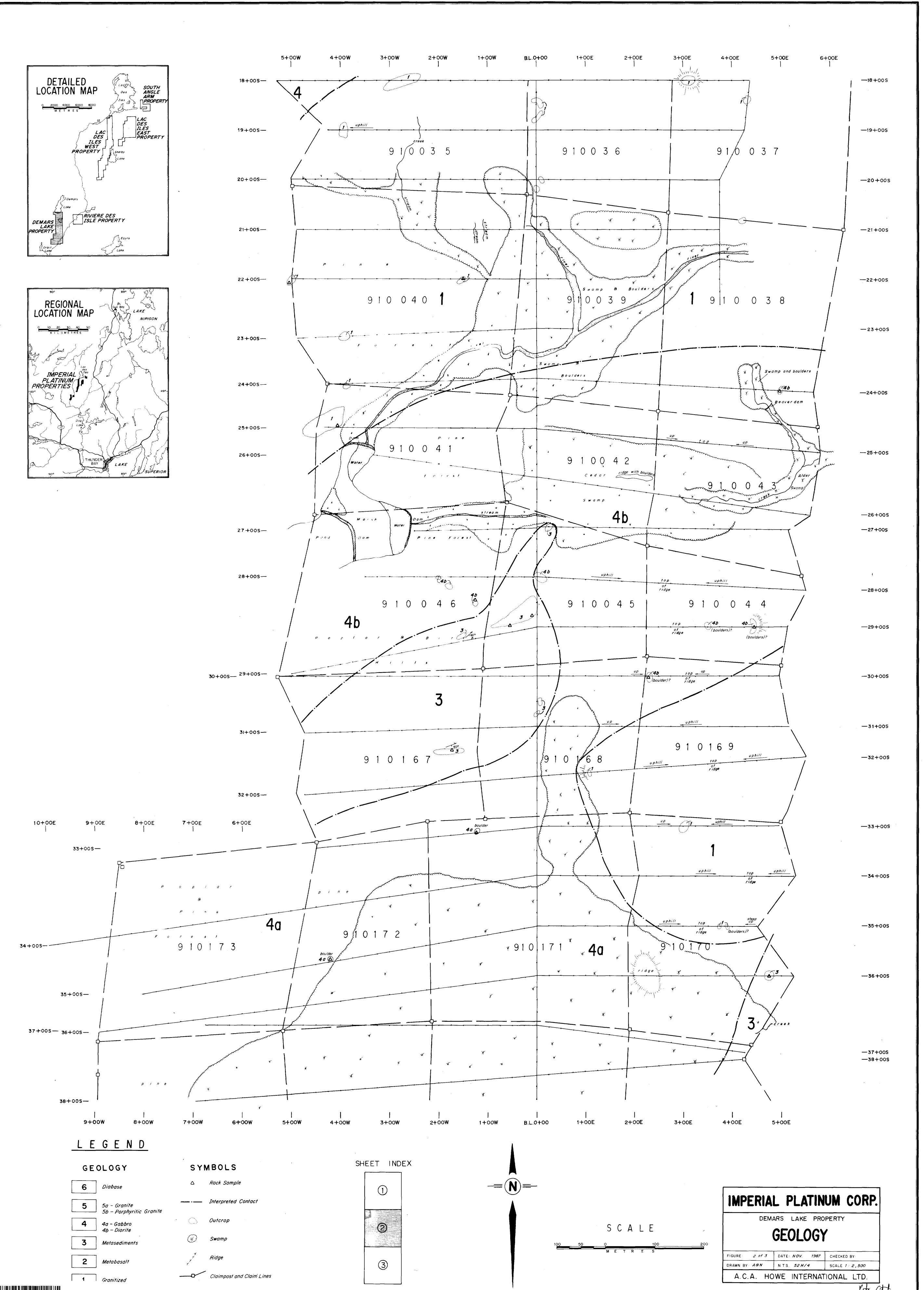
TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	•
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	, , <u>, , , </u>
LEASE, SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY.	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	🔻
ORDER IN COUNCIL	. 00
RESERVATION	
CANCELLED	_
SAND & GRAVEL	<u>©</u>



220 VARDROPE TWR

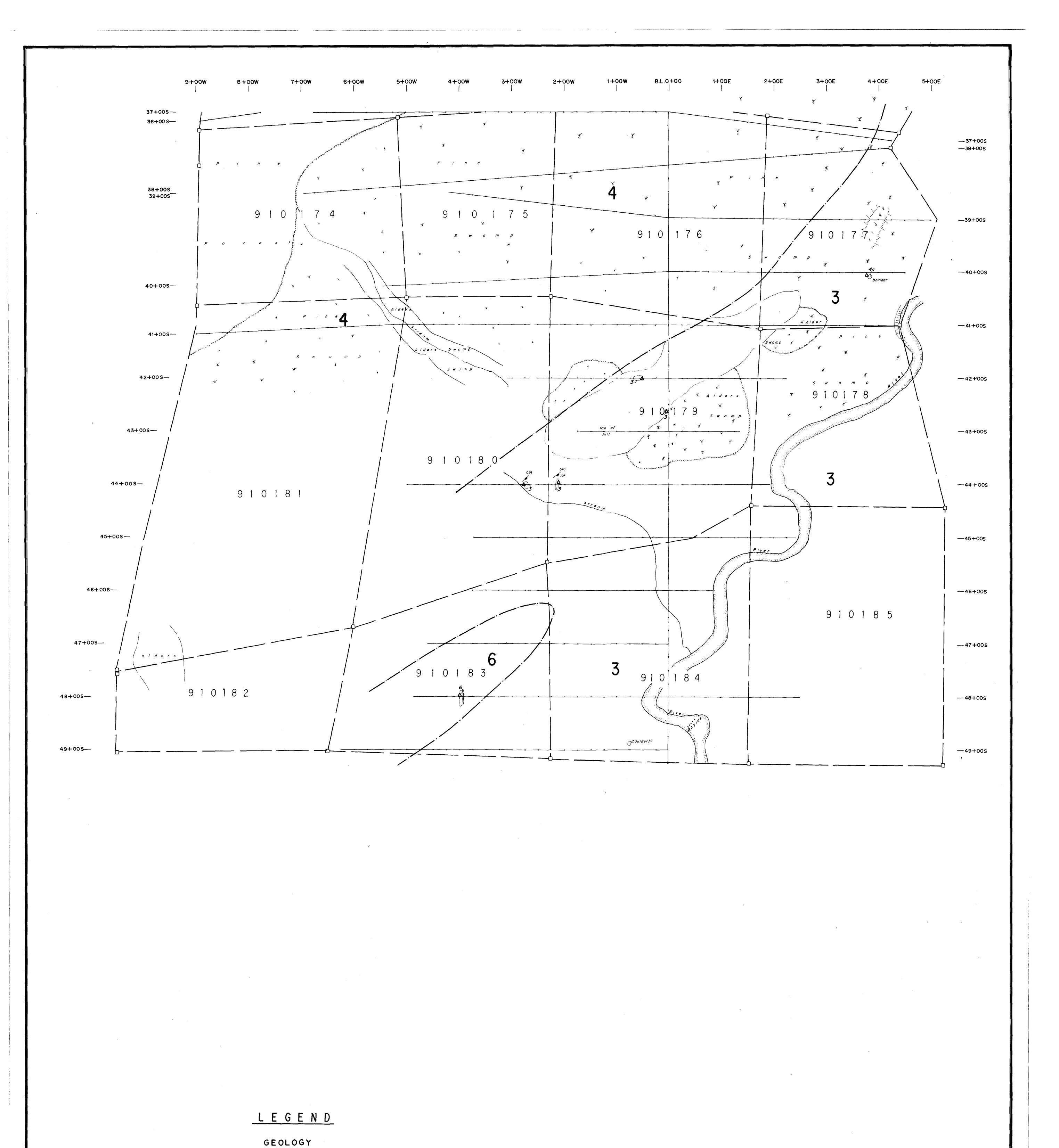


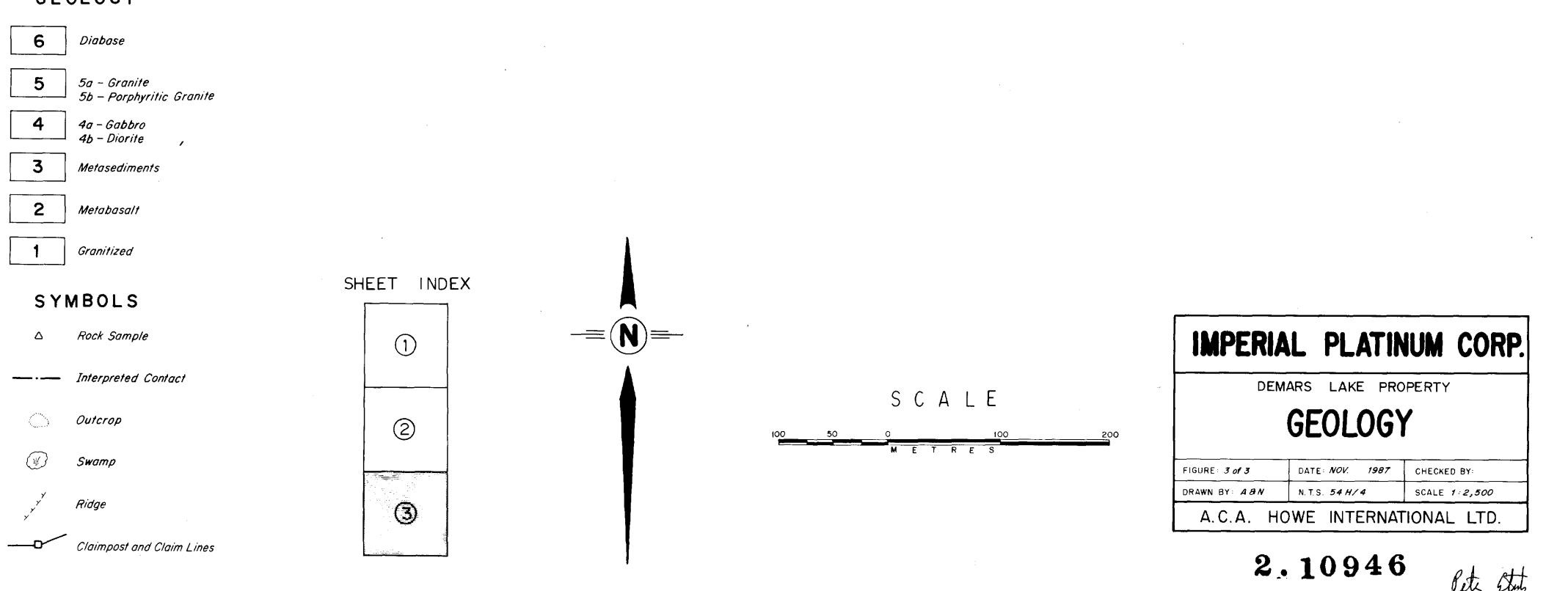




52H04SW8189 2.10946 ORBIT LAKE

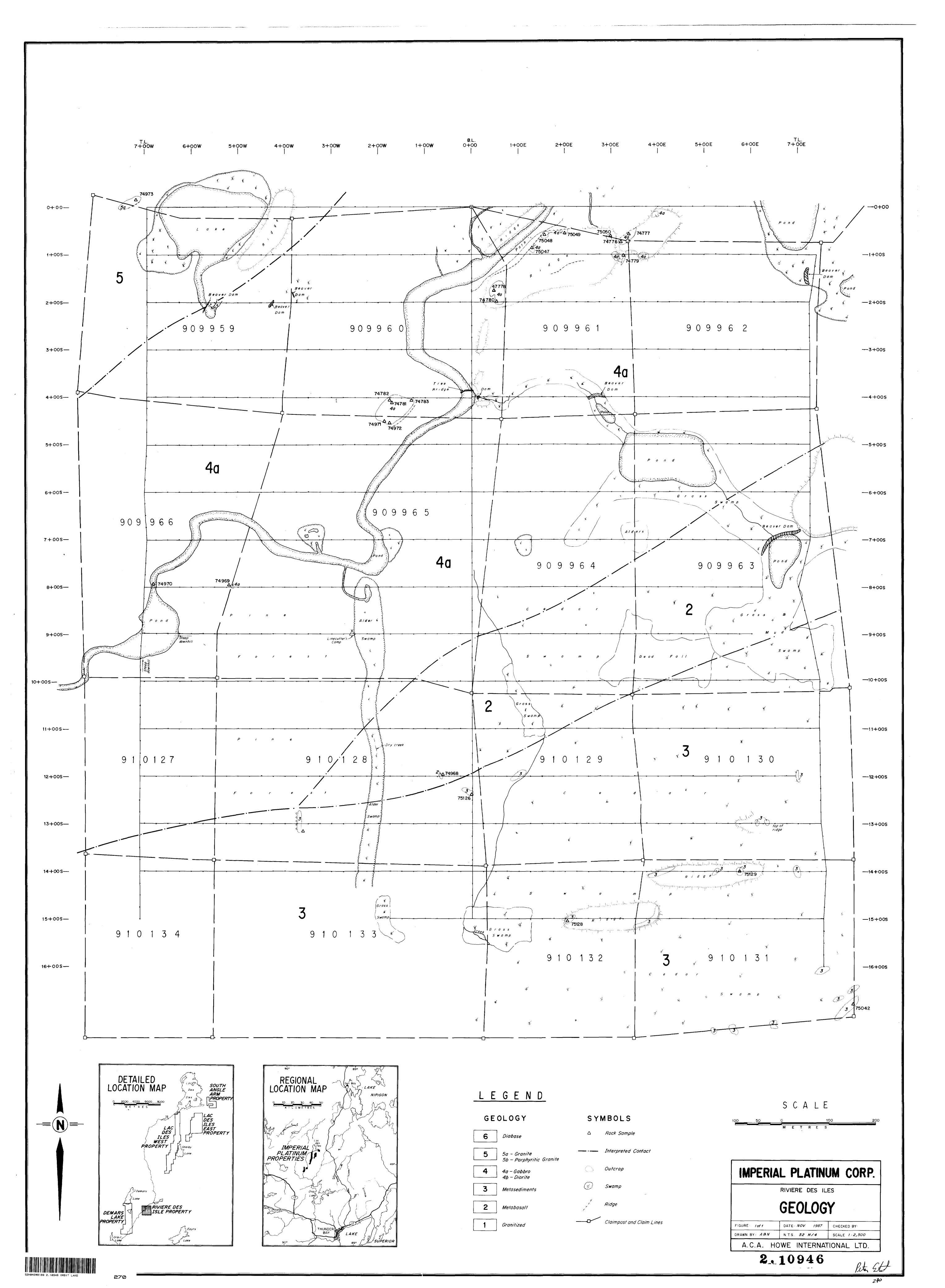
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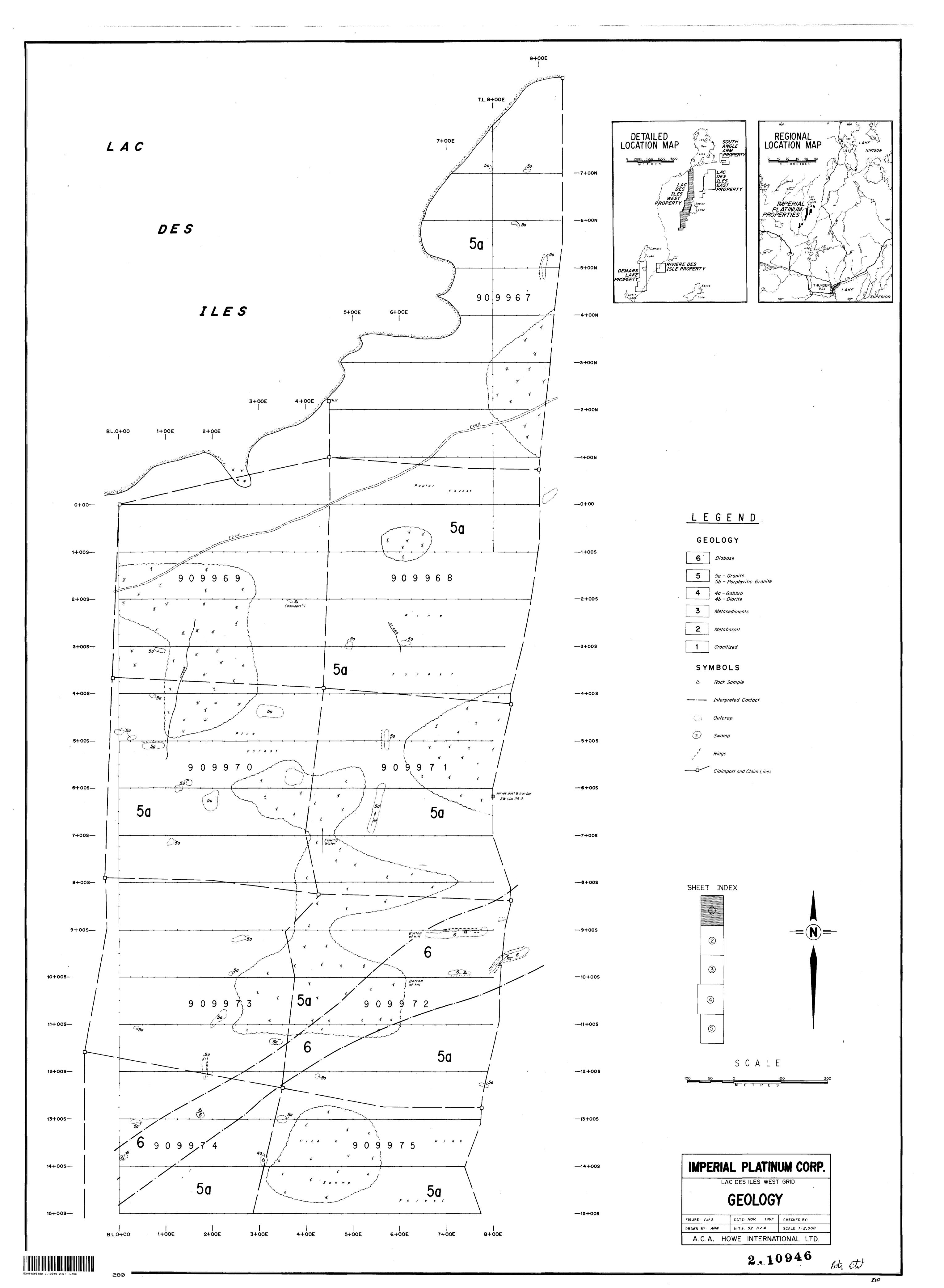


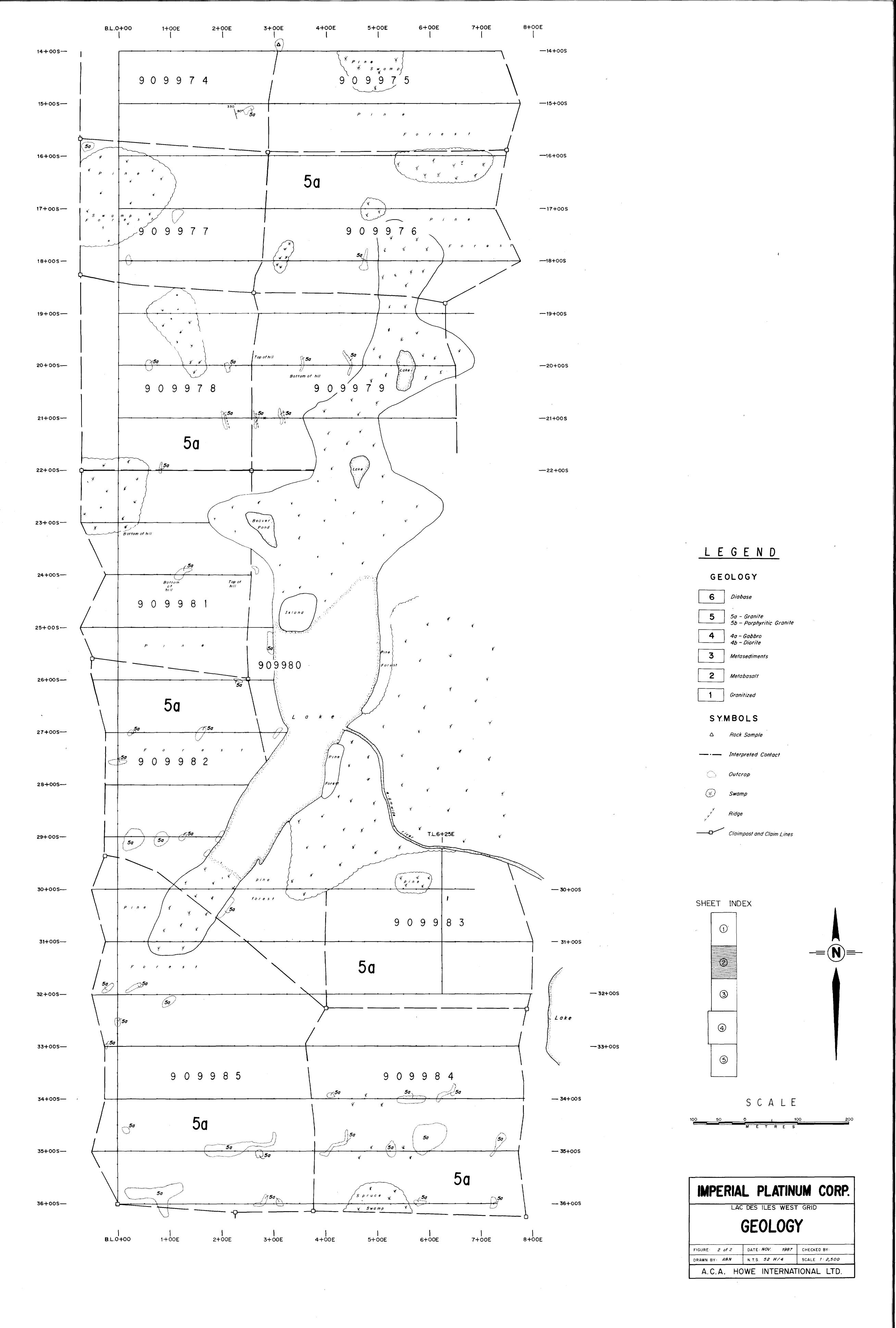


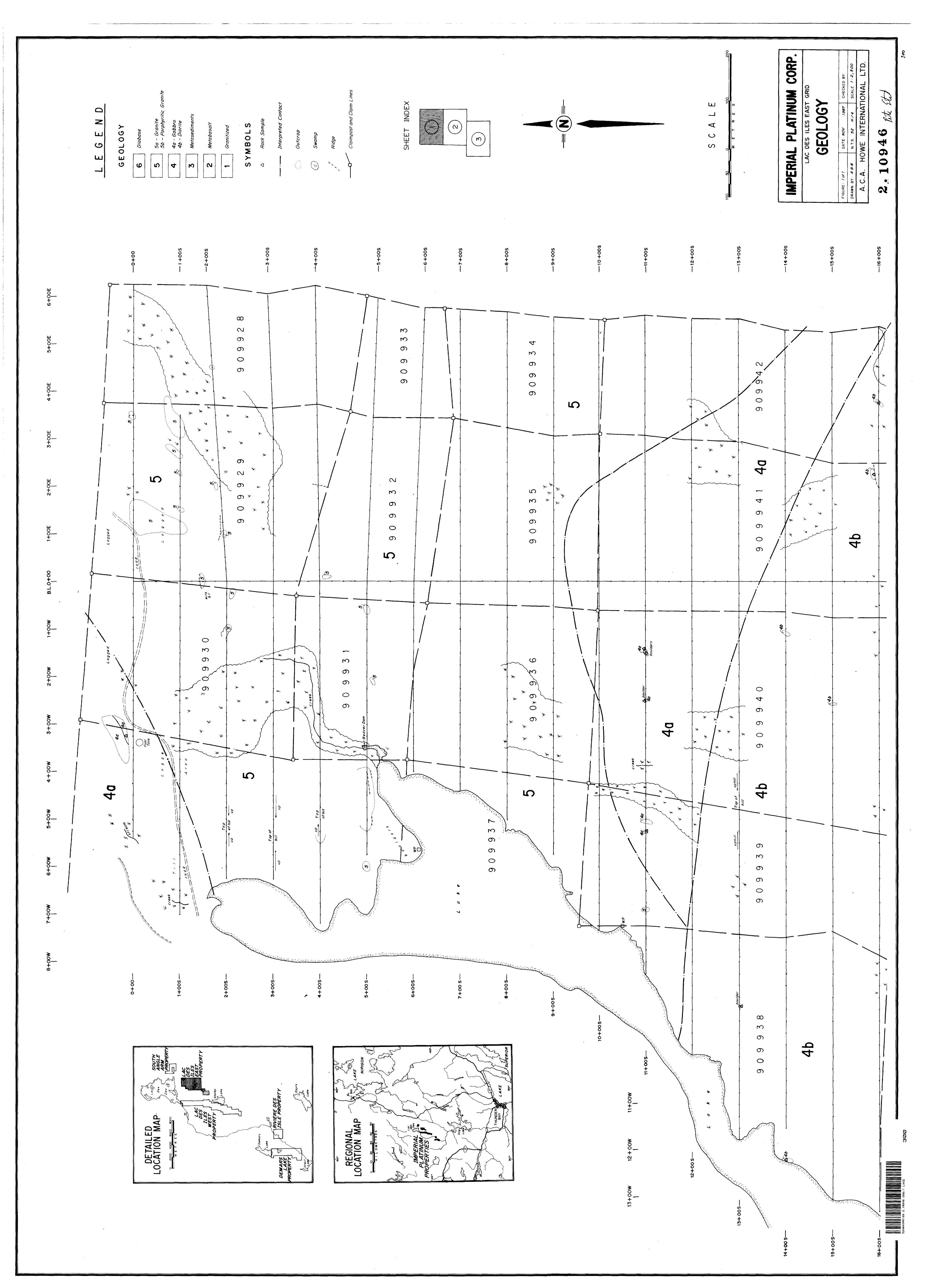
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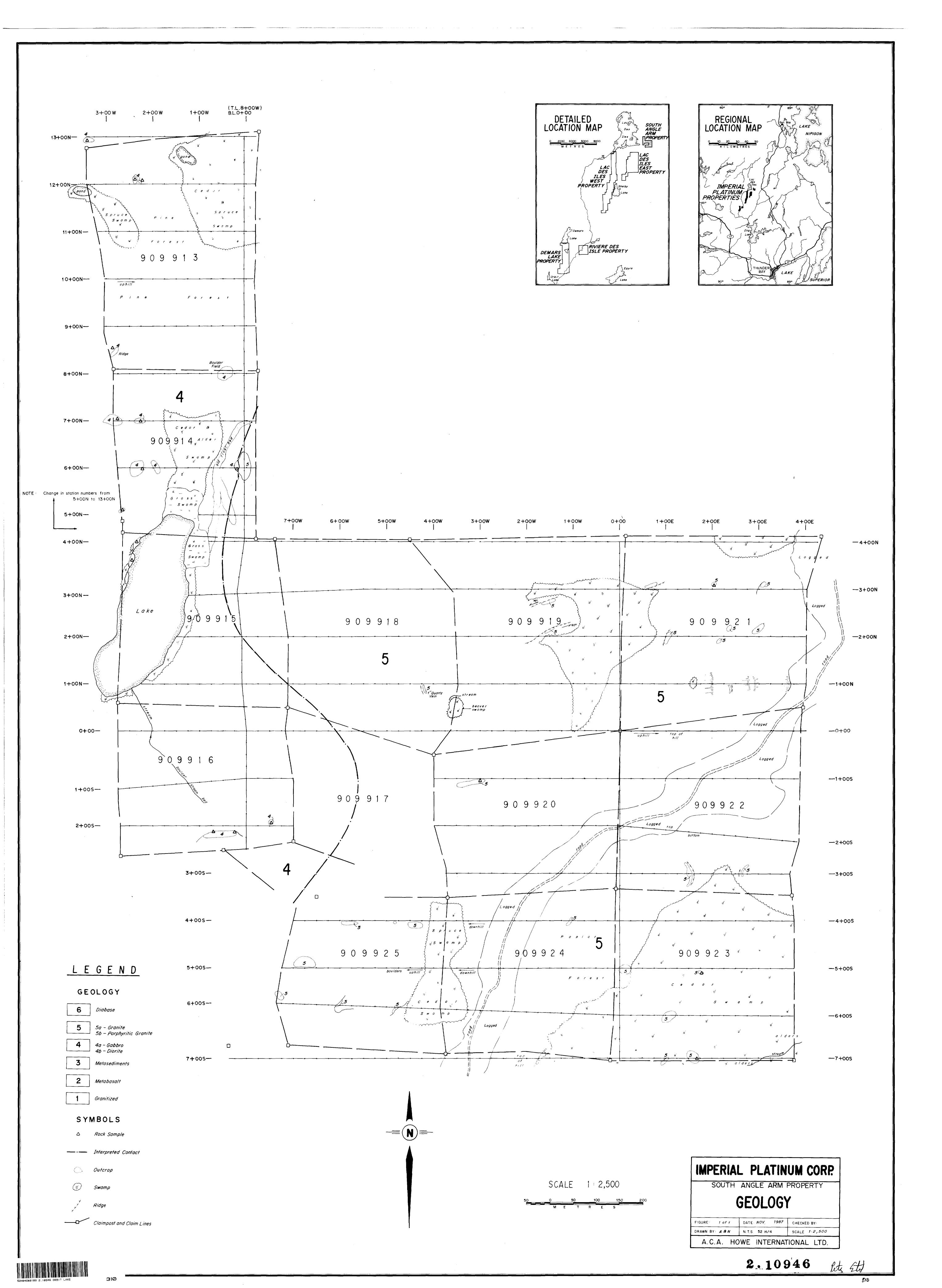
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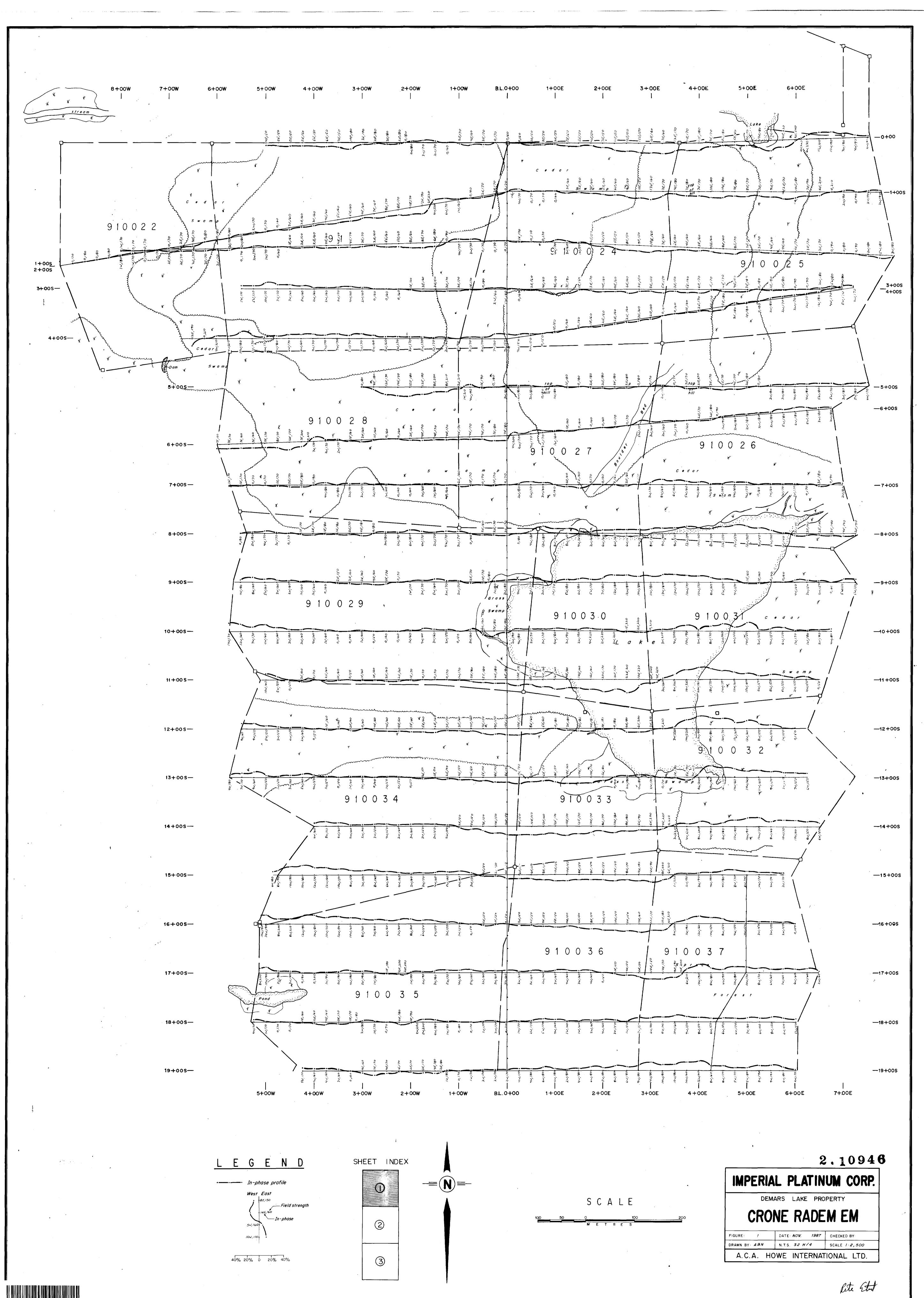


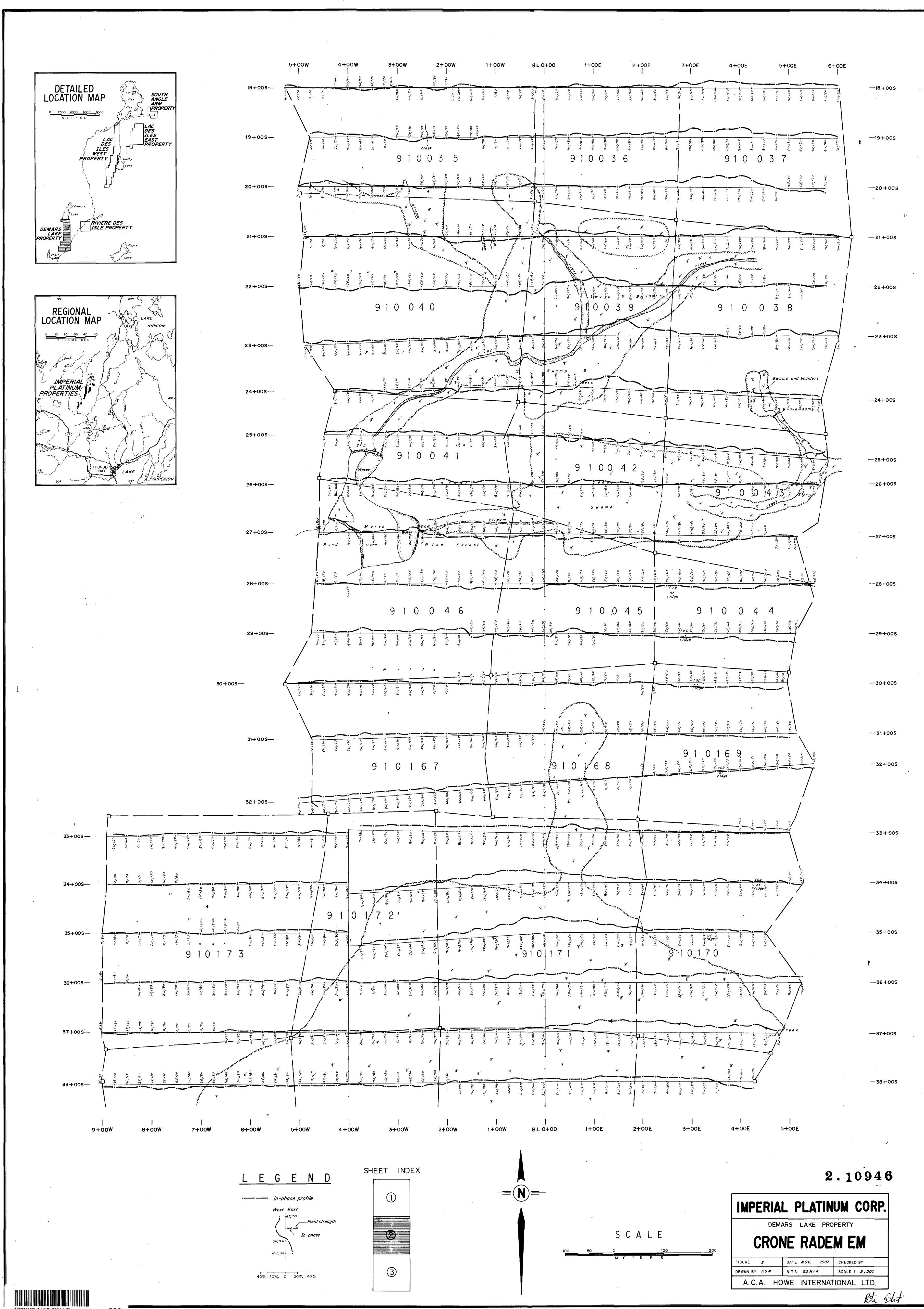


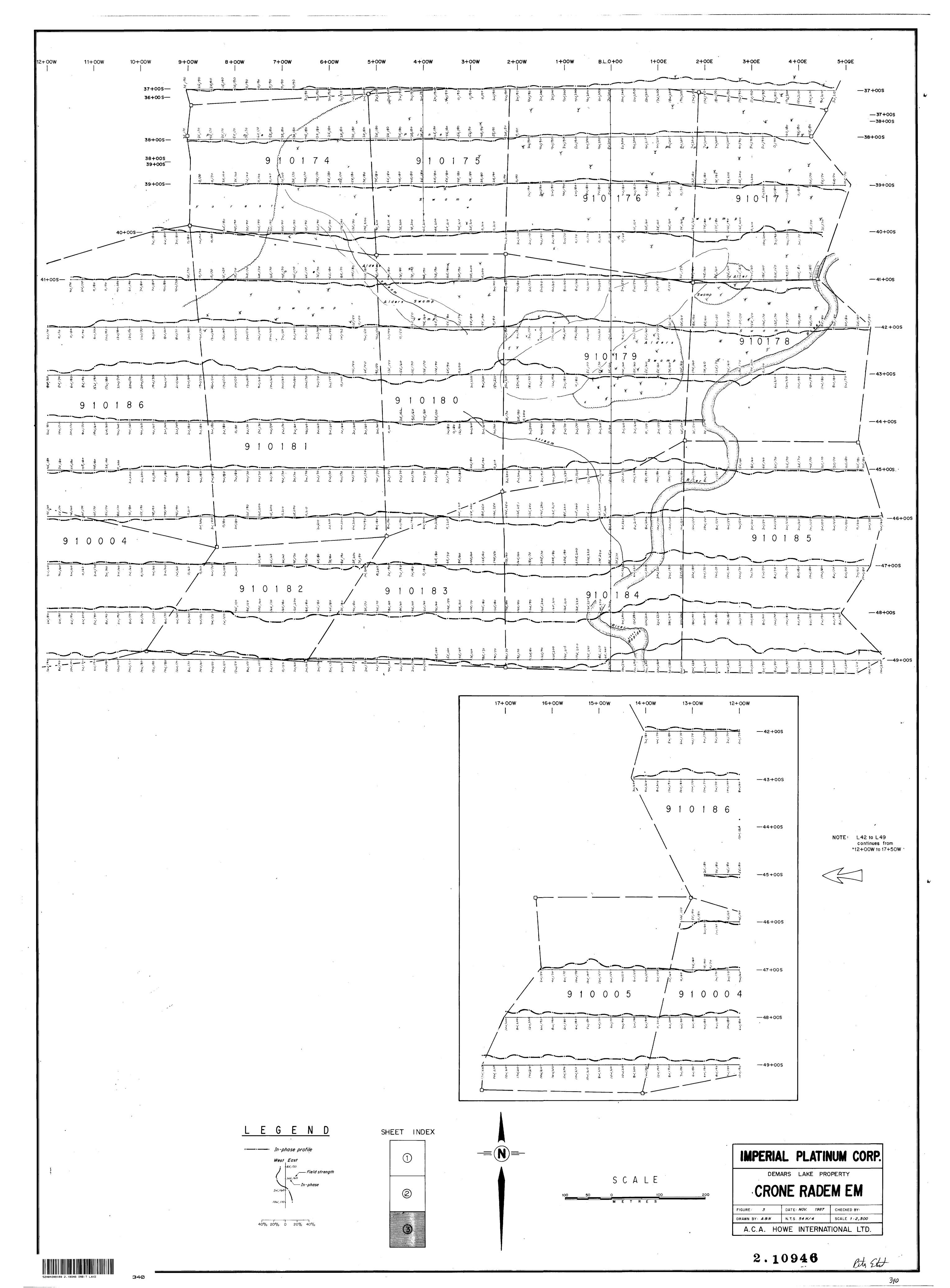


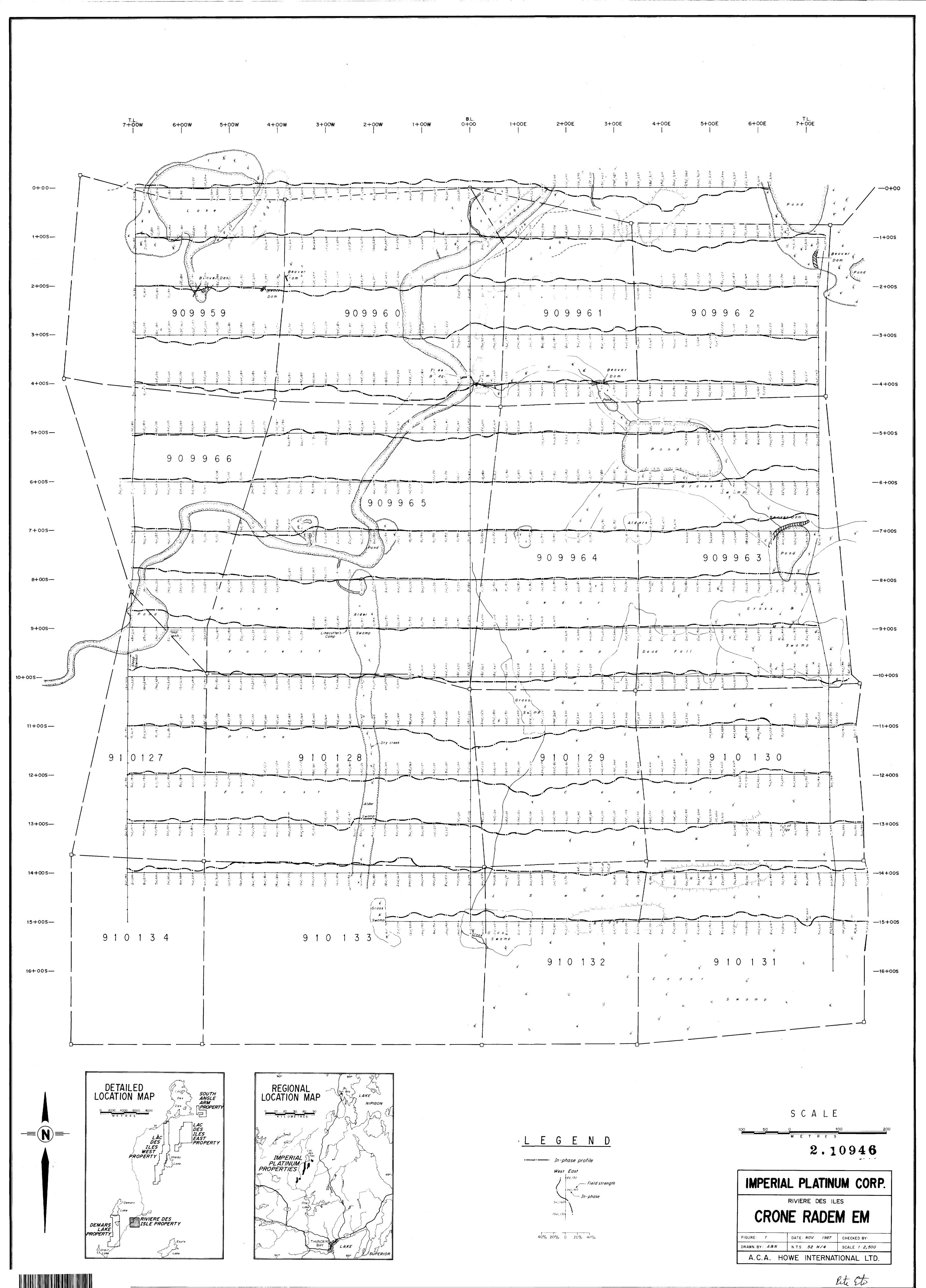




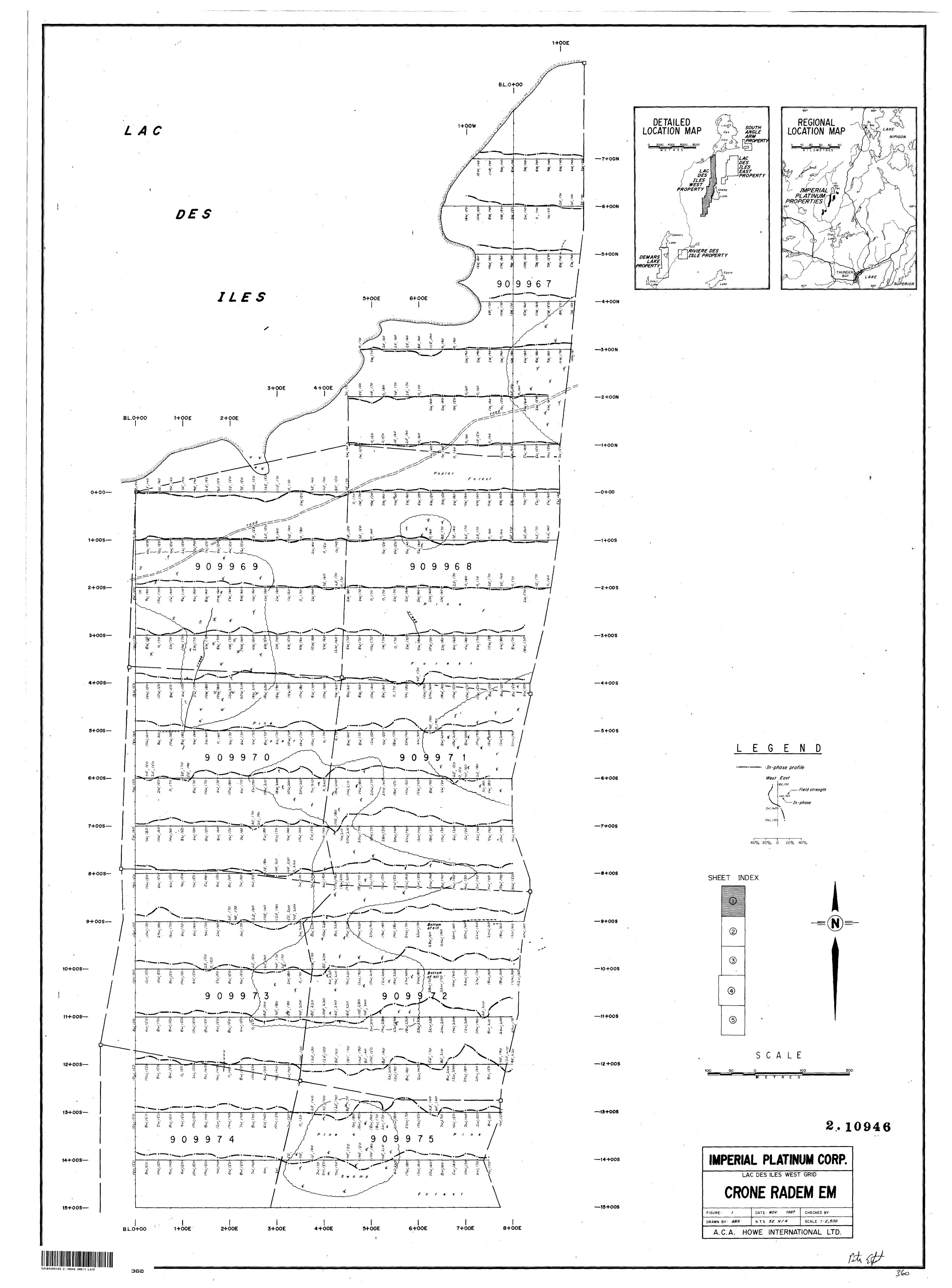


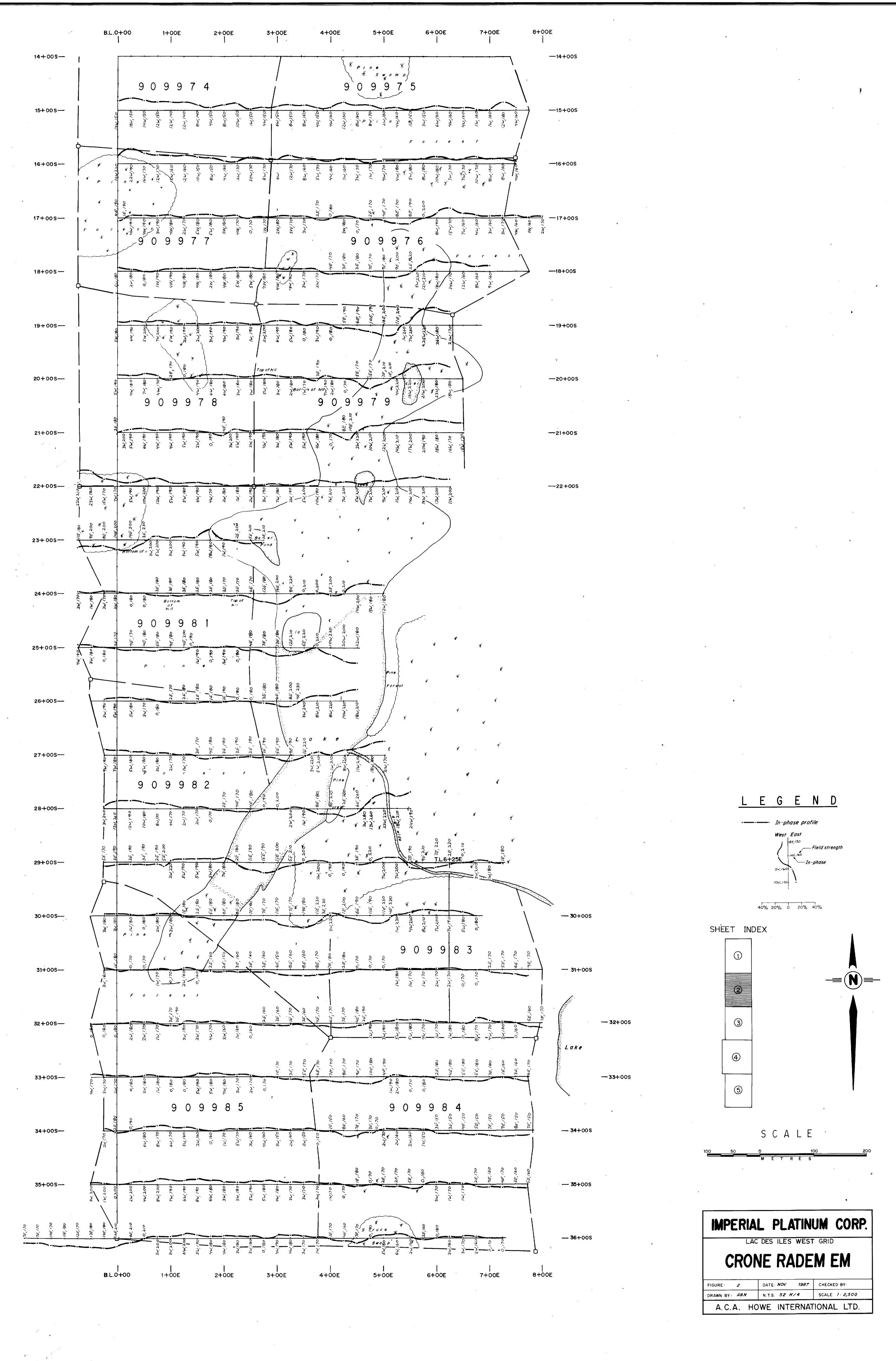






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