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# NUINSCO RESOURCES LIMITED

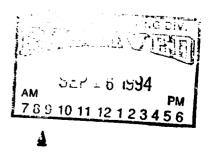
**Richardson Township Project** Geological Mapping Preogram

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Rainy River District Kenora Mining Division N.T.S. 52 C/13 and 52D/16

August 30, 1994.

Paul Jones Project Geologist





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# **1.**• Introduction

In late June, 1993, Nuinsco Resources Ltd., of Toronto, began the initial phase of an exploration program to assess the mineral potential of claims and options it had acquired over the two previous years in the Rainy River region of northwestern Ontario. Fieldwork has been conducted discontinuously to the time of writing and has consisted of reconaisance mapping and associated sampling, LANDSAT image interpretation, diamond drilling (3 holes), reverse circulation and rotosonic drilling (69 holes combined to date), geophysical surveys (I.P., magnetometer, Horizontal Loop E.M.), enzyme leach soil sampling, and detailed grid mapping in Richardson Township. The purpose of this report is to present the results obtained from the detailed mapping program.

The Nuinsco program followed the release of a Canada - Ontario Mineral Development Agreement (COMDA) sponsored overburden sampling program (Bajc, 1991a) which identified a number of till sample sites with elevated gold grain accumulations in the Rainy River region as a whole. Of particular note were samples obtained from Richardson Township which included 202 gold grains from sonic drill hole 88-11 and 54 gold grains from 88-10. The delicate nature of many of these grains indicates that they have been subject to minimal transport from bedrock source.

A number of factors gave Nuinsco cause to acquire claims and option mineral rights from landowners in Richardson, and adjacent, townships. These include: i) the presence of the anomalous number of gold grains in the tills and their apparent proximity to a bedrock source, ii) the discovery during 1991 in nearby Menary Township of gold bearing quartz veins, iii) the nearby presence of the Quetico Fault a major regional structure with which gold mineralization is associated (i.e. Mine Centre, Ontario), iv) the limited prior exploration in the Richardson Township area, particularly to bedrock level, v) areally extensive, and locally thick, deposits of glacial drift which have limited the understanding of the bedrock geology, and hence hindered exploration.

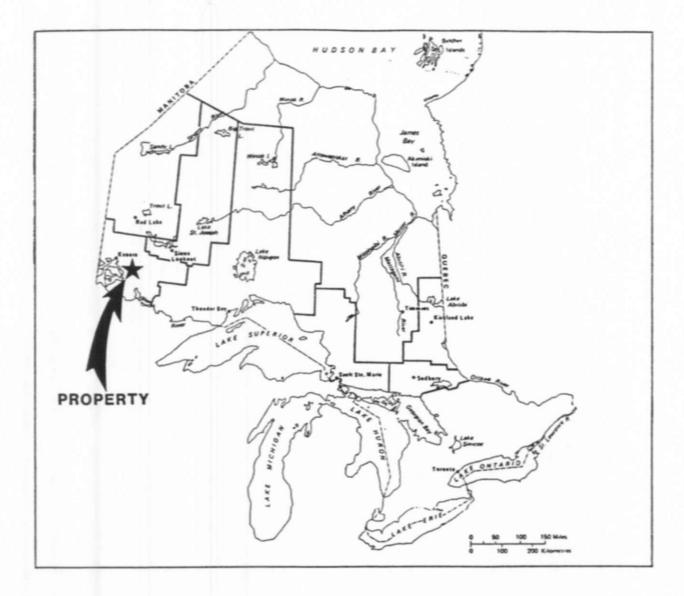
The purpose of the geological mapping, conducted in May and June of 1994, was to provide a more accurate stratigraphic framework, to which the information obtained from other programs can be added, and to act as a basis for more ambitious exploration programs planned for the future.

# 2.<sup>•</sup> Location and Access

The accumulated claims and options comprising the Rainy River Project property are located in northwestern Ontario in the Ministry of Natural Resources Administrative District of Rainy River, Kenora Mining Division, near both the border with Manitoba and the international boundary with Minnesota. The nearest population centre is Fort Frances 50km to the southeast, the villages of Emo and Nestor Falls are about 25km to the south and north respectively. The claim groups as a whole are approximately encompassed by latitudes 48°45'N to 49°00'N and longitudes 93°46'W and 94°36'W (all rounded to the nearest minute).

Lying in a series of discontinuous blocks, the claim group which comprises the Nuinsco land position lies in an east-west band of 60km length. The claims are located between the contact of the Sabaskong Batholith to the north and the Quetico Fault in the south. The land position is located in the townships of Senn, Menary, Potts, Richardson, Tait, Sifton, Patullo, Nelles, Blue, Pratt, Spohn, and Attwood and Curran. Nuinsco Resources Cameron Lake Mine is located approximately 40km to the northeast.

Access to most of the claim group is attained via the numerous all weather gravel provincial highways and township roads which lead off of paved highways 11 and 71 and which traverse the region and provide excellent ingress. The northeast segment of the property group can be accessed by a combination of logging roads, provincial and township roads and for the most inaccessible claims in Menary Township, by boat or snowmachine.



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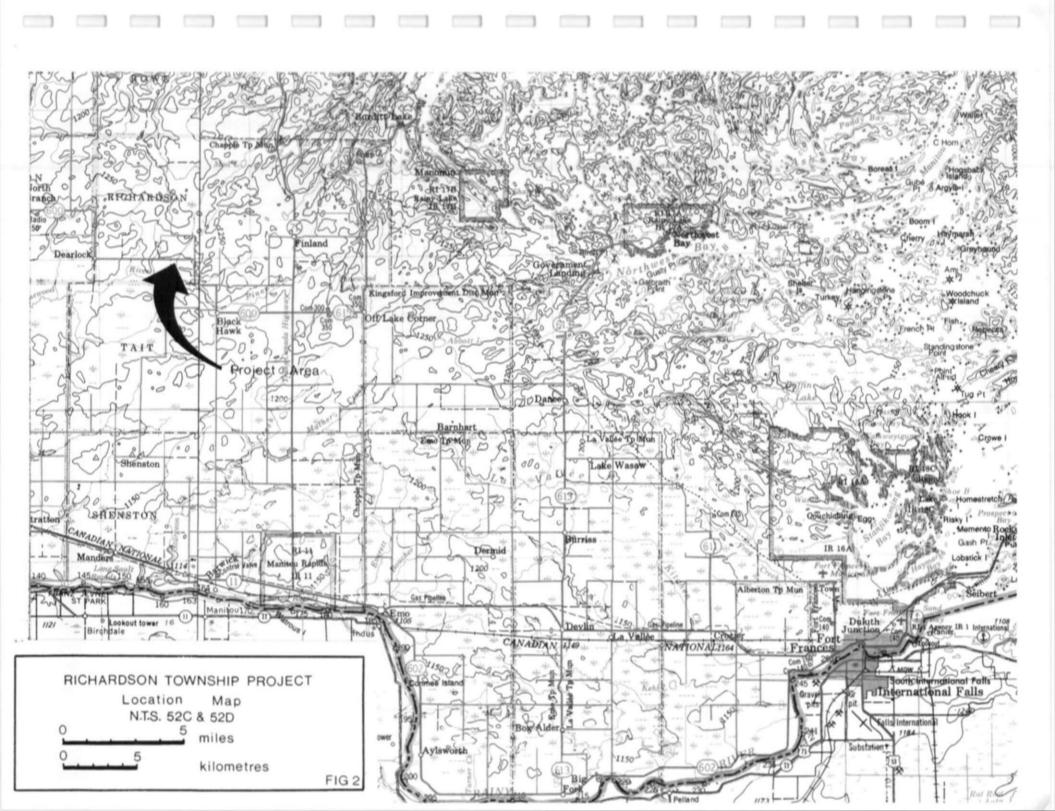
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Nuinsco Resources Limited RAINY RIVER GOLD PROJECT REGIONAL LOCATION MAP

FIG.1



### 3.<sup>•</sup> Physiography

Physiographically the landscape on which the Nuinsco claim groups are situated can be divided into two distinct domains separated by a sharp northwest-southeast trending break - the site of the Rainy Lake - Lake of the Woods Moraine, which locally traverses Rowe, Menary, Potts, and Fleming townships.

To the north and east of the moraine a Precambrian highland is only sparsely covered by glacial drift and is characterized by extensive outcrop exposure. This area has been subjected to only one of the most recent glacial advances (the Whiteshell - from the northeast) because of the elevated topography which prevented the advance of other lobes from the west. It shows few signs of intense weathering (Bajc, 1991b). Relief is controlled by bedrock geology with the supracrustal sequences displaying positive relief relative to the batholithic complexes; relief can attain 90m.

The broad lowland which occurs to the south and west of the break has been subject to either two or three late-Wisconsinan glacial events (depending on exact location - three events occur in the western parts of the property). Here outcrop ranges from 5-40% and thick drift blankets bedrock surfaces. The area has been subdivided by Bajc (1991b) into two regions. Region 2a contains 30-40% outcrop by area and may attain significant relief; areas separating outcrop are sites of extensive drift accumulation. In region 2b outcrop comprises less than 5% of the surface area, topography is low and rolling, drainage is poor, and peatland is common.

The area underlying the Richardson Township area lies at the margin of 2a and 2b topography. Large outcrop areas in the north and east side of the grid (i.e. east of line 0) provide the maximum relief. To the west and south small outcrop areas provide limited relief in extensive flat lying areas covered by substantial till and bog accumulations.

### **4.**<sup>•</sup> Exploration History

Although exploration activity by individual prospectors dates back to the 1930's, documented exploration in Ministry of Natural Resourcesent assessment files commences in 1967. Additional exploration programs are known to have taken place on private land, however record of assessment work was filed for this work.

In 1967 copper was recorded from a water well hole on the western shore of Off Lake. Consequently Noranda Exploration Company registered claims around the original discovery and performed mapping, geophysics, and diamond drilling; this activity met with limited success and the claims were allowed to lapse.

In 1971 International Nickel Company of Canada Limited conducted airborne and follow-up ground geophysics in the region as a whole; although there is no record of this work Inco did file a report on two diamond drill holes in Richardson Township in 1973. Reportedly one of these drill holes encountered anomalous gold values (D. MacEarchern, per. comm.).

In 1972 Hudsons Bay Exploration and Development carried out airborne geophysical surveys followed by claim staking and ground geophysics. In 1973 HBED drilled 54 diamond drill holes regionally to test 42 E.M. conductors, including anomalies in Tait Township, adjacent to the south of the Quetico Fault (Nelson, 1990). The principal target of this exploration was base metal and none of the work was filed for assessment purposes, although it is apparent that it was subsequently available to Mingold personnel.

In the mid 1980's exploration programs were mounted in Menary Township and the Off Lake area by several companies. Agassiz resources examined the potential for both base metal and gold in both area's with a program of mapping, stripping, sampling, and geophysics over two field seasons. In the process they discovered numerous showings of both gold and copper-zinc; note particularly what came to be termed the Agassiz Showing in Menary Township. In 1984 Lacana Minng Corporation undertook a single field season of mapping and sampling over an extensive area adjacent to Off Lake and Burditt Lake; no significant areas of mineralization were reported. Spartan Resources conducted an I.P. survey over a grid adjacent to the eastern shore of Off Lake in 1988. Anomalous responses were obtained from the survey but no further assessment is recorded, although unreported trenching and stripping was conducted at the site of the survey.

In 1989 Western Troy Capital Resources began a mapping and sampling program on claims staked in Menary Township which partly encompass the lapsed properties of Agassiz and HBED, and the gold and base metal occurrences discovered during those programs. Following initial exploration for base metals Western Troy discovered "several" native gold bearing, quartz veins late in 1991. The veins are at present interpreted to be the folded and boudinaged fragments of a single original vein. When sampled this zone returned an

average of 1.4 oz/ton gold. Subsequently additional showings were discovered later in 1991 and during the 1992 season. Interestingly most of these veins are situated in the lowermost unit of the mafic stratigraphic succession of the area, in close proximity to the contact of the Sabaskong Batholith. A 250 ton bulk sample of the veins discovered in 1991 was conducted during the 1992 program; this was expanded to a reported 500 tons and completed in September of 1993. Additional extraction is underway at the time of writing.

Considerable interest was generated in the area west of Finland following the release of the O.G.S. publication "Gold Grains in Rotosonic Drill Core and Surface Samples (1987-1988), Map No. P.3140. In 1989 Mingold Resources Inc. staked 85 claims and optioned property from 12 local landowners in three separate blocks in Richardson, Tait, Patullo, and Sifton townships. Between mid-1989 and late-1990 Mingold conducted extensive sampling of the glacial drift by hand and backhoe trenching, and reverse circulation drilling. This work was accomapnied by geological mapping and ground geophysics. Subsequently, limited diamond drilling was conducted in Patullo Township based on these surveys; the results of this drilling were inconclusive and the anomalous values obtained in the tills were generally unexplained. The Canadian activities of Mingold were terminated prior to complete assessment of all anomalous results.

Subsequently Nuinsco Resources began to assemble a land position in the region in 1991, centred on the Richardson Township - Menary Township areas. To date Nuinsco has completed a LANDSAT linear study, local I.P. and magnetometer and horizontal loop E.M. surveys, regional reconaissance mapping and sampling, reverse circulation and rotosonic drilling in Richardson and Potts townships (69 holes), diamond drilling in Menary Township (3 holes), enzyme leach soil sampling, and the subject of this report, detailed grid mapping.

# 5.<sup>•</sup> Claim Descriptions

The Nuinsco Resources Ltd. property group spans 60km east to west and encompasses 21,950ha in total at time of writing. It is composed predominantly of mineral claims on Crown Land, with subordinate optioned patentented ground, and a License of Occupation from the Agricultural Rehabilitation Development Agreement (A.R.D.A.). The land position in its entirety falls within the jurisdiction of the Kenora Mining Division, Ministry of Natural Resources Administrative District of Fort Frances. Refer to fig. 1 in the pocket for the distribution of the property components.

The assessment work conducted and detailed in this report, consists of geological mapping and sampling. All of the work took place on patented ground in Richardson Township. Claim boundary locations are included on fig. 2 in the pocket. The claims traversed while mapping are listed below.

## Table 1. Claims Traversed in Mapping Program

Township	Lot No.	Conc. No.	Owner
Richardson	N1/2, Lot 2	Ш	Kereliuk
	\$1/2,\$1/2, Lot 3	п	Kereluik
	N1/2,S1/2, Lot 3	П	Huitika
	N1/2, Lot 3	Ш	Huitika
	S1/2, Lot 4	П	Davis
	N1/2, Lot 4	П	Roen
	N1/2, Lot 5	I	Jackson
	S1/2, Lot 5	II	McLean

#### 6.<sup>•</sup> Regional Geology

The Nuinsco Resources properties are located near the western termination of the Wabigoon Subprovince of the Canadian Shield. Approximately 100km to the west the Archaean rocks of the shield dive beneath Phanerozoic sedimentary cover in southern Manitoba. However much of the extreme southwest part of the Wabigoon region, and particularly that area covered by this report, is overlain by a thick Quaternary succession and hence the bedrock geology is little observed and poorly understood.

The immediate area of the claim groups is underlain by supracrustal metavolcanic and metasedimentary rock, and batholithic bodies (Bajc, 1991b). The Burditt Lake Belt, composed of metavolcanic rocks transects the central portion of the area in a northeast trend swinging to the northwest near Kishkutena Lake; it averages approximately 8km thickness. These rocks separate intrusions such as the Sabaskong Batholith in the northwest from the Rainy Lake Batholithic Complex in the southeast.

Blackburn (1976) has divided the metavolcanic rocks of the Burditt Lake belt into six mappably distinct mafic, tholeiitic units and five distinct felsic, calc-alkaline units; however because of the extensive glacial drift and hence lack of direct observation this scheme breaks down in the south and west. The lower mafic sequence comprises approximately 2/3 of the volcanic pile and the overlying felsic accumulations approximately 1/3.

In the south part of the region, in Patullo, Tait, and Mather townships, mapping by Fletcher and Irvine (1954), and Johns (1988) determined the presence of extensive accumulations of greywacke and subordinate conglomerate. These units strike at approximately N70°E and occur (in the context of this report) in proximity to the Quetico Fault.

The supracrustal succession has been intruded by the syntectonic Sabaskong Batholith to the northwest, Jackfish Lake Complex in the east and to the southeast the Fleming Township Complex; all are of tronjhemitic composition. Three smaller post-tectonic stocks, are located within the metavolcanic belt, the Black Hawk, Finland, and Burditt Lake stocks. Subordinate dyking is associated with all of these bodies and is particularly common near intrusive conatcts. Late Precambrian, northwest trending, diabase dykes signal the close of Precambrian igneous activity.

The regionally extensive, east-west trending, Quetico Fault traverses the south of the area while the northwest trending Pipestone-Cameron Fault separates the Burditt Lake belt from the volcanic rocks of the Kakagi-Rowan and Manitou lakes greenstone belts. Subordinate faulting is common, both observed, and inferred from discontinuities and offsets in stratigraphic units and air photo or satellite linears.

Available evidence of stratgraphic facing indicates that the rocks of the central part

### Table 3

## **LITHOLOGIC UNITS**

### PHANEROZOIC

(A) Pleistocene and Recent

till, sand, gravel, clay, organic debris

-----Unconformity-----

#### PRECAMBRIAN

(B) Proterozoic

-Mafic Intrusive Rocks -Diabase dykes

-----Intrusive Contact-----

(C) Archean

-Intermediate to Felsic, Intrusive Rocks

Equigranular trondhjemite, granitic dykes, equigranular monzonite and intrusive breccia

-----Intrusive Contact-----

-Felsic Metavolcanic Rocks

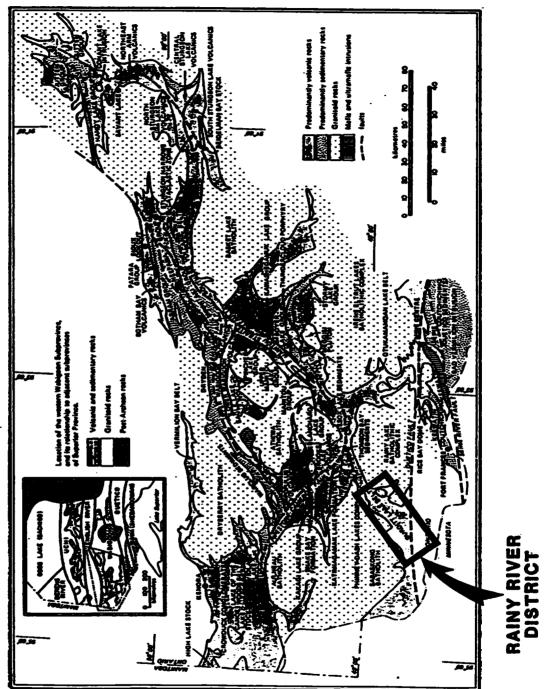
Medium grained to porphyritic rhyolite and dacite, quartz 'feldspar porphyry dykes

-Mafic to Intermediate Metavolcanic Rocks

Fine to medium grained basalt and andesite, gabbro, pillowed basalt, porphyritic basalt, pillowed and porphyritic basalt, pillowed variolitic basalt, spherulitic basalt, tuff, tuff breccia, and lapilli tuff of the region form a steeply dipping, southeastward facing, homocline. In the southwest the volcanic stratigraphy has been folded into the southward plunging, Deerlock Syncline; stratigraphic facing continues to be to the south but it is deflected to the east and west around the limbs of the structure.

The regional metamorphic grade ranges from lower greenschist in the centre of the metavolcanic belt to upper greenschist and amphibolite at batholith contacts. The eastern margin of the metavolcanic belt and the large metavolcanic xenoliths within the Jackfish Lake Complex are migmatized and have attained amphibolite grade.

The youngest members of the stratigraphic succession were laid down in the Quaternary Period. The oldest units are partially preserved, discontinuous Pre late-Wisconsinan tills and glaciolacustrine deposits. The overwhelmingly dominant portion of the succession is composed of upto three distinct till units of late-Wisconsinan age deposited by the Laurentide Ice Sheet, and associated periglacial accumulations; from oldest to youngest these are the Whiteshell (or northeast) Till of the Labradorean Lobe, the Whitemouth Lake (or West) Till of the Keewatin Lobe and the Marchand Till of the Des Moines Lobe. The most recent accumulations consist of bog/swamp, recent beach and eolian deposits, and alluvium.



**REGIONAL GEOLOGY** WESTERN WABIGOON SUBPROVINCE AND ITS MARGINS

The local geology of the Richardson Township area is poorly understood because of the paucity of outcrop.

As mapped by Blackburn (1976) the area is underlain by a mixed succession of mafic to felsic metavolcanics intruded by early and late granitoid bodies. Metamorphic grade is lower greenschist to amphibolite.

The most abundant metavolcanic rocks, basalt flows, are assigned predominantly to the M3 or M5 members of Blackburn's six member mafic stratigraphic succession. In the nose of the Deerlock Syncline, Blackburn (1976) interprets the flows there to be correlative with members of the M2 stratigraphic unit observed to the east. The mafic flows consist of fine to coarse grained massive and pillowed basalt. Rare pillow and flow breccia is observed and very local interflow sediment is noted. In the extreme west and south of Richardson Township coarsely plagioclase phyric flows occur. Strike directions are rarely observed but in the eastern part of the township they are in a northeast direction. Overall these flows average approximately Sppb Au, however mafic flows underlying the south part of the Richardson Township grid return values significantly greater than this.

Quartz-feldspar porphyry rhyolite/dacite is interpreted to overlie the mafic flows and outcrops in the southeast corner of Richardson Township; Blackburn has designated this unit F5. The mafic-felsic contact is nowhere observed. This rock is white-grey in colour and contains upto 10% quartz and/or feldspar phenocrysts. Although exposed over a large outcrop area flow relationships are generally not apparent; however outcrops on the Davis Farm display flow/bedding contacts at approximately  $50^{\circ}-60^{\circ}$  with subvertical dip, generally to the southeast. Disseminated pyrite, comprising 3-5% of the rock is not uncommon in this unit, and this unit appears to be enriched with respect to gold when compared to the volcanic stratigraphy as a whole (background averages 22.<sup>3</sup>ppb Au in wholerock samples obtained from the fesic unit specifically versus  $5.^5$ ppb from the volcanic stratigraphy as a whole). Volcaniclastic horizons are probably not uncommon, certainly ash and lapilli tuffs have been observed and a very pyritic, gossan weathering, fragmental lithology is noted on several outcrops.

To the north the volcanic succession has been intruded by the early syntectonic Sabaskong Batholith. It is composed of a gneissic granodiorite core and a more homogenous, less deformed tronjhemite contact zone (unobserved in Richardson Township). To the southeast the late tectonic Blackhawk Stock occurs and is exposed in several road cuts. It is distinctly zoned with a porphyritic granodiorite core and a monzonite periphery. Adjacent to these bodies numerous felsic dykes invade the volcanic stratigraphy ranging from centimetre to metre widths and from aphanitic to pegmatitic.

The Quaternary stratigraphy encountered in the Nuinsco program appears to be confined to the Whiteshell Till, the Whitemouth Lake Till and associated interbedded

glaciofluvial and glaciolacustrine sediments and younger organic/humus deposits.

Although past reconnaisance mapping by Nuinsco personnel generally confirms the geology of the area. More detailed mapping and overburden drilling show that the distribution of felsic/intermediate lithologies depart somewhat from earlier interpretations in that a band of felsic/intermediate metavolcanics extend to the northwest through central Richardson Township, under the substantial Quaternary cover.

#### 8.º 1994 Richardson Township Mapping Program

#### 8.<sup>1</sup> Introduction

Geological mapping was conducted by Nuinsco personnel in Richardson Township between late May and mid June, in total comprising 23 days of field work. The program was carried out on a metric grid with baseline oriented east-west. North-south crosslines were spaced at 100m intervals with stations at 50m and locally 25m. A total of 31 lines of either 800m or 1600m length were traversed. These lines cover all or parts of Lot 2 through Lot 5, Concession I and II, of Richardson Township.

The area covered by the grid had previously been mapped as part of the 1976 Ontario Department of Mines mapping program supervised by C.Blackburn (Blackburn, 1976). No company mapping for mineral exploration is recorded for the immediate area. In the work conducted by Blackburn the volcanic rocks in the Richardson area were grouped into the M3, M5 or F5 zones of the metavolcanic stratigraphy, although it was acknowlegded that this regional lithostratigraphic zonal scheme is tenuous west of Hwy 71 because of the extensive overburden cover.

In fact the extensive cover of glacial debris and consequent limited outcrop exposure, estimated at less than 2% where covered by the grid, significantly inhibits elucidation of the local volcanic stratigraphy. This problem was compounded by thick moss and abundant lichen cover, and on the felsic-intermediate outcrops, similar weathering textures from one unit to the next.

# 8.<sup>2</sup> Metavolcanic Stratigraphy

### 8.<sup>21</sup> Lower Mafic Succession

The oldest rocks encountered while mapping were extensive mafic volcanic flows traversed on the north part of the grid in the east but extending progressively further south to the west. Strike was measured from flow contacts, tuff horizons, interflow sediments, and approximately from pillow elongation. The strike was found to range from approximately  $45^{\circ}$  on line 22E to  $60^{\circ}$  on line 0 and to dip subvertically (i.e between approximately  $75^{\circ}$  and  $90^{\circ}$ ) to both the northwest and southeast. Criteria for stratigraphic facing was determined solely from pillow tops and was found to to be to the southeast and south.

The mafic volcanic succession was found to be composed of a layered pillowed and massive basalt and pillow breccia with interbedded ash to lapilli tuff horizons, local hyaloclastite and narrow bands of interflow sediments. Typically the flows are metres to tens of metres thick while the tuffs tend to be thinner, upto several metres thick, and the interflow sediments are submetre in thickness. Texturally the flows are aphanitic to coarse grained and very locally coarsely feldspar phyric. A significant portion of the large outcrop area between lines 6E and 11E is underlain by gabbroic textured basalt with a distictive knobby textured, weathered surface; these flows may attain significant thicknesses of over 100m, and are similar to outcrops observed on Highway 71 to the east. A possible single example of a variolitic flow was observed on the outcrop on line 20E. Pillows are variable in size, attaining a maximum of approximately 1.5m (but generally significantly less), and always appear to be flattened subparallel to foliation.

Pyroclastic and clastic horizons are very much subordinate in abundance to flows. Bedded tuff horizons are chloritic and may contain chloritic lithic fragments upto several centimetres in size. A well developed hyaloclastite occurs in an outcrop on 2E, is upto 30m thick and possesses a chaotic texture containing devitrified glass and shards upto 10cm in size. Nowhere was grading observed in these units.

Foliations are well developed throughout the finer grained members of the straigraphic pile but become indistinct in the coarser gabbroic basalt. In the east part of the map area foliation strikes between 40° and 50° and dips subvertically, while those measured in proximity to line 0 tend to strike at approximately  $60^{\circ}$  to  $70^{\circ}$ , dipping  $70^{\circ}$  to  $90^{\circ}$  to the south. This configuration implies that the foliation is being folded around the nose of an inferred anticline, the axial surface of which is located near line 0.

Nowhere is the contact between the mafic succession and the overlying felsic succession observed. At best its location can be estimated to within several tens of metres using the mapping, information from overburden drilling (not reported here) and results from a magnetometer survey conducted late in 1993. The contact is estimated to change strike from approximately  $60^{\circ}$  to  $50^{\circ}$  from line 22E to line 0. Farther to the west (i.e. west of line 0) the contact appears to strike northwest (inferred from overburden drilling primarily, and very limited outcrop exposure).

# 8.<sup>22</sup> Felsic-Intermediate Stratigraphy

Abundant lichen growth and uniform weathering have made determinations of individual units difficult. Efforts have been made to clean lichen from outcrop between 2W and 3W and this has facilitated mapping.

Wholerock analyses have indicated that much of the straigraphy, designated F5 by Blackburn (1976) plots near the boundary between tholeiitic and calc-alkaline domains within the dacite and andesite fields of the Jensen Cation Diagram.

The felsic-intermediate stratigraphy is exposed as a wedge, adjacent to the western boundary of the Blackhawk Stock. To the west overburden drilling by Nuinsco Resources has shown that these rocks extend to the west and northwest, apparently being folded

around the nose of the unamed anticline.

Probably the dominant portion of the felsic-intermediate stratigraphy is composed of a quartz-feldspar porphyry dacite. Quartz phenocrysts attain 5mm and locally upto 10% of the modal mineralogy (generally between 3%-5%), while the feldspar is smaller, less than 3mm and comprises 10% or more of the mineralogy. The groundmass is indistinct, grey, and siliceous. The weathered surface of this unit is light grey-white with the quartz phenocrysts in positive relief. Fresh surfaces are medium grey and display smooth, subconchoidal fracture surfaces where strong foliations are not developed. Typically this rock will contain 2%-3% disseminated pyrite. Rare flow banding is noted. In general these flows will return gold values ranging from below detection limit to approximately 40ppb.

A significant amount of pyroclastic material also appears to be included in the stratigraphic succession. Where good exposures exist or have been made lapilli sized heterolithic, generally siliceous pyroclasts are observed in a light grey, fine grained groundmass. Elsewhere ash sized fragments (upto 2-3mm) occur and crystals of quartz and particularly feldspar are common. Because of lack of exposure these units were not traced for significant distances. These units often have a rusty weathered surface and contain 2%+ disseminated pyrite.

A subordinate but very visible member of the intermediate succession is a fine grained to lapilli fragmental unit with local block sized fragments and abundant groundmass chlorite enveloping the more siliceous, larger fragments. Typically these horizons contain 45%-50% SiO2 and may contain upto 25% pyrite in bands probably parallel to bedding. When plotted on a Jensen Cation Diagram they are located in the high Fe tholeiitic basalt field. These units weather to a gossan of dark rust brown to black with yellow patches. Red brown, mm scale garnet crystals were observed in the chloritic groundmass on the outcrop on 2W-3W. Gold analyses from these units range from sub-detection to 75ppb.

### 8.<sup>23</sup> Upper Mafic Succession

Only a few small outcrops occur at the south end of the grid on lines 4W, 8W, and 10W. Massive basalt or gabbroic basalt, feldspar phyric basalt, mafic lapilli and ash tuffs have been observed here. In all cases disseminated pyrite is observed, usually 2-3% but locally over decimetre intervals upto 7-8% is noted.

Nowhere are bedding or flow contacts observed on these outcrops but strike is estimated to be approximately 100°, and correlating these units with intersections obtained from overburden drilling to the west implies that strike becomes more north-west to the west. Foliations appear to approximately parallel bedding.

It appears likely that these mafic volcanics are interbedded with felsic intermediate members; the upper mafic succession being no more than a few hundred metres thick

underlying the south part of the grid. Although only a limited number of outcrop observations were made intersections from overburden drill holes would imply this to be the case.

## 8.<sup>3</sup> Intrusive Rocks

# 8.<sup>31</sup> Felsic Intermediate Intrusive Dykes

Abundant felsic-intermediate dykes were observed to transect the mafic stratigraphic succession. They are particularly abundant on the large outcrop area between 6E and 11E. Here they bifurcate and rejoin, striking generally at approximately  $30^{\circ}$  and ranging from decimetre to tens of metres in thickness. Textural and chemical similarities to the metavolcanics stratigraphically above suggest that these dykes were feeders to the felsic-intermediate succession.

Texturally these dykes are massive and or quartz and feldspar phyric. They are white grey on weathered surfaces and medium grey on fresh surfaces. there is a strong similarity between the porphyritic dykes and the porphyritic flows upsection; in all probability these units have been confused with one another in places.

# 8.<sup>32</sup> Black Hawk Stock

The Black Hawk Stock was traversed on only three or four lines at the extreme east side of the grid.

Where encountered it is equigranular, coarse grained, unfoliated, pink-grey monzonite of the marginal phase of the stock. These outcrops tend to be larger than the metavolcanic ones and display significant positive relief.

The contact between the Black Hawk Stock and the enveloping metavolcanic rocks is nowhere observed. However numerous narrow aplite and rarely pegmatite dykes are observed to transect metavolcanic stratigraphy in proximity to the stock. These typically can be measured in decimetre to metre thickness.

# 8.<sup>4</sup> Structural Geology

The area underlain by the Richardson grid is interpreted to be in the nose of a south plunging anticline, paired with the Dearlock Syncline located approximately 3km to the west.

On the east limb of the anticline between lines 22E and 0 bedding measurements on the relatively abundant outcrop shows strike to be approximately  $50^{\circ}$  to  $60^{\circ}$ . The few measurements available between lines 0 and 8W show strike to be almost east-west. To the

west of 8W no measurements are available but intersections obtained from overburden drilling and pillow facing obtained from an outcrop west of the map area are consistent with strike to the northwest. Where measured bedding is always vertical to subvertical to the south although near the nose of the anticline dips may be much shallower - between  $50^{\circ}$  and  $60^{\circ}$  south.

Foliation approximately parallels bedding and is deflected around the nose of the fold. Planar fabrics are well developed throughout the volcanic pile except in the coarser grained gabbroic basalt and felsic-intermediate dykes. Intense foliation/schistocity is developed on the intermediate-felsic outcrop on lines 19E and 20E adjacent to the Black Hawk Stock. Here the fabric parallels the inferred contact of the stock; but it is also often folded and contorted and envelopes dismembered, boudinaged veins and dykes within the deformed intermediate volcanics.

Elsewhere strong foliation is developed in the flows on line 1E and between 2W and 3W. These observations are consistent with strong deformation observed in the bedrock intersections obtained from overburden drill holes collared between 1+50W and 4+50W and the interpreted presence of a ductile deformation zone inferred from LANDSAT false colour imagery. This structure is interpreted to extend to the northeast and southwest across the map area underlying low ground occupied by a water course, bog, and beaver ponds.

#### 9.<sup>•</sup> Geochemical Sampling

Sampling for geochemical purposes was conducted across the Richardson grid. A total of 74 samples were obtained from metavolcanic straigraphy and submitted for Au, Au-Cu-Zn, or Au-wholerock analysis. The samples are numbered consecutively 163401-163474 inclusive. Analyses were performed by Chemex Labs Ltd. through their Thunder Bay preparation lab. Au contents were determined by fire assay with an atomic absorption finish, Cu and Zn values were determined by atomic absorption. Wholerock analyses were produced by XRF.

Of a total of 74 Au analyses, 48 analyses (64.<sup>8</sup>%) were below the detection limit of the analytical technique. Many of the remaining samples are at or near the anomalous threshholds determined for the Richardson area (see table 3 below). Consistently the mafic flows underlying the south part of the grid area and observed in outcrop on lines 8W and 10W returned the highest assays. Here Au values of upto 220ppb and averaging 49.<sup>5</sup>ppb were obtained from mixed flows containing upto 7% disseminated pyrite. The chloritic gossan fragmental horizons in the felsic-intermediate succession often returned anomalous gold values, but average approximately 30ppb. Individual analyses obtained from milky quartz veins of decimetre width may attain 150ppb but are generally much lower.

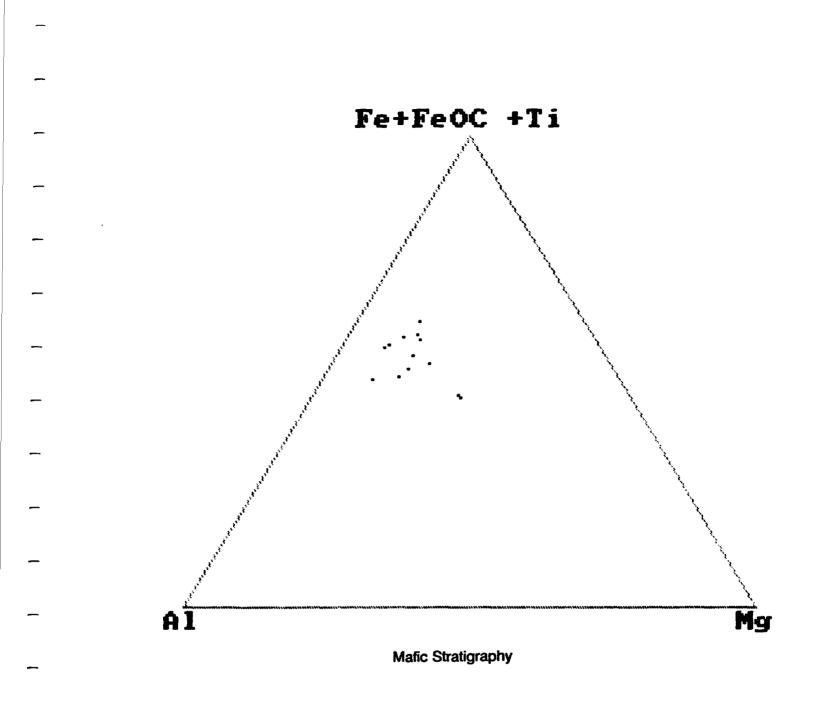
#### Table 3. Au Analyses Statistics (value in Au ppb)

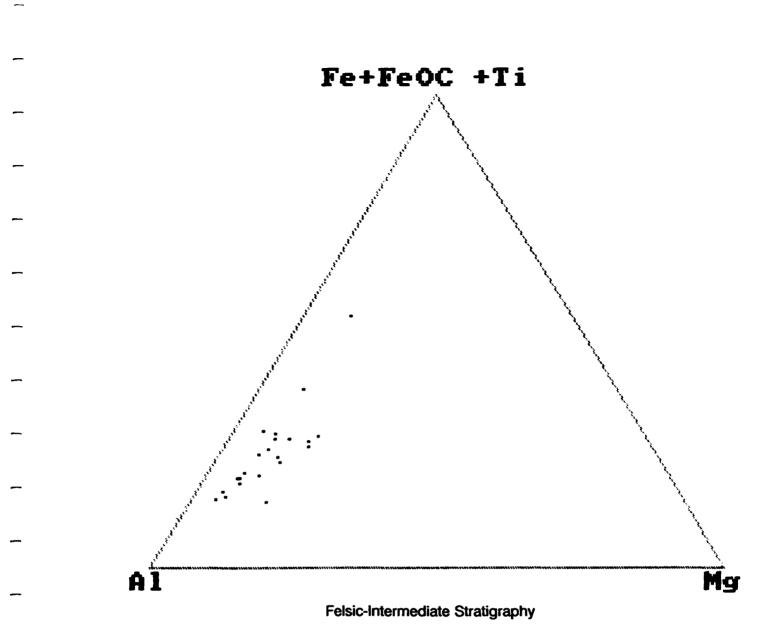
Sample Group	Mean	Stan. Dev.
All wholeock-Au analyses (30)	10.70	8. <sup>32</sup>
M3 wholerock-Au analyses (11)	5. <sup>44</sup>	4.64
M5 wholerock-Au analyses (3)	5. <sup>55</sup>	2. <sup>60</sup>
F5 wholerock-Au analyses (7)	22. <sup>33</sup>	8. <sup>08</sup>

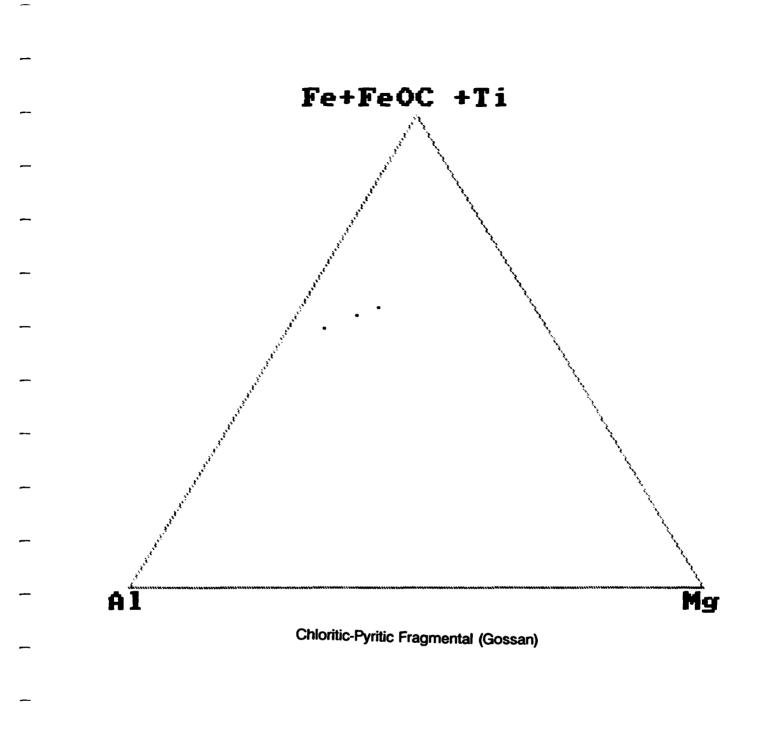
Cu and Zn values collected from across the grid area in metavolcanic rocks returned values ranging from several to several tens of ppb; not unexpected values given the general abundance of sulphide mineralization, particularly within the felsic-intermediate units. Consistantly however the highest base metal values are obtained from the mafic metavolcanics underlying the south part of the grid and containing 3-7% disseminated pyrite where observed; samples returned averages of 190ppm Cu, and 217ppm Zn.

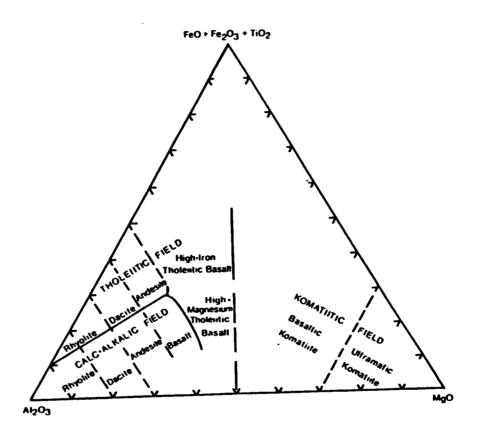
Wholerock geochemistry was conducted on 41 samples. Jensen Cation Diagrams show samples obtained from both the lower and upper mafic successions to fall well within the field of high fe-tholeiite, as do those samples obtained from the very pyritic, chloriticgossan, fragmental horizons. Those samples obtained from more siliceous members of the

stratigraphic succession plot near the boundary between tholeiitic and calc-alkaline domains and generally fall within the dacite-andesite fields (assuming most samples are in fact calcalkaline).









### 10.<sup>•</sup> Conclusions and Recommendations

The felsic intermediate straigraphy underlying the southern part of the map area has been found to be deformed and components of it have been found to commonly return anomalous gold values, related, at least in part to, pyrite content. Additionally the upper mafic volcanic succession returns anomalous gold and base metal values from units containing 3-7% pyrite.

The interpreted presence of a shear zone traversing the centre of the map area in a northeast-southwest trend has yet to be thoroughly tested. However, should continued examination confirm its presence, the combination of the anomalous gold content in the local stratigraphic units, and the presence of the deformation zone would provide fertile ground for future exploration.

Consequently in the near future, work should attempt to increase understanding of bedrock geology, structure, and if possible, controls on gold mineralization. In part this can be accomplished by more detailed mapping, particularly in proximity to the trace of the interpreted shear zone. Therefore cleaning, stripping and trenching should be attempted as a cost effective method of data acquisition in areas of sparse outcrop exposure.

Additionally diamond drilling should be contemplated to elucidate the general volcanic stratigraphy and particularly that in close proximity to the trend of the interpreted deformation zone. This would require at least one fence of drill holes possibly to be drilled as part of an initial diamond drilling program conducted to assess geophysical and geochemical targets and to correlate with overburden drilling results.

#### References

- Bajc, A.F., 1991a. Till Sampling Survey, Fort Frances Area. Results and Interpretation. O.G.S. Study 56, 214pp, plus plans.
- Bajc, A.F., 1991b. Quaternary Geology, Fort Frances Rainy River Area. O.G.S. Open File Report 5794, 170pp, plus plans and sections.

Blackburn, C.E., 1976. Geology of the Off Lake - Burditt lake Area, District of Rainy River. O.D.M. Geoscience Report 140, 62pp, plus map.

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#### **Certificate of Qualifications**

I, Paul Latimer Jones resident at 27 Briarmoor Crescent, Ottawa, Ontario, K1T 3G7, do hereby certify that:

- 1: I am a Consulting Geologist, since 1986.
- 2: I am graduate of Carleton University, Ottawa, 1982, with a B.Sc. (Hons.) in Geology.
- 3: I have been engaged in the study and practice of my profession since 1978.
- 4: I am a registered Fellow of the Geological Association of Canada.
- 5: This report is based upon onsite involvement in the exploration program in the Richardson Twp. area.

Dated at Ottawa, this 30th day of August, 1994.

Paul L. Jones, B.Sc., FGAC.

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Appendix I Geochemical Results

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Appendix II Program Expenditures

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# Richardson Township Mapping Program Program Expenditures May-August, 1994

	Direct	Indirect
Supervision: P.L.Jones	\$ 3445.40 4922.00 1005.80	\$1019.27 1703.36 321.58
G.F.Archibald	\$ 6000.00	<b>\$</b> 977.88
Draughting:	\$ 2937.14	
Geochemistry:	\$ 1228.36 1382.12	
Linecutting:	\$ 6214.56	
Rent (Field House):		\$1400.00
Lease (Truck):		\$1063.02
Total:	\$27135.38	<b>\$</b> 6485.11

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23

PAUL L. JONES 27 Briermoor Crescent Ottawa, Ontario K1T 3G7 (613) 738-2248

May 31, 1994

Nuinsco Resources Ltd., 908 The East Mall, Etobocoke, Ontario, M6B 6K2. (05).

# Invoice: May, 1994.

# Rainy River Project, Richardson Township Grid.

For professional fees relating to geological mapping on the grid established in Richardson Township.

14 days @ \$230/day	-	\$3220.00
G.S.T. @ 7%	-	\$ 225.40
Expenses: as per attached sheet	-	\$1019.27
Total	-	<b>\$</b> 4464.47

Sincerely Paul Jones PAUL L. JONES

27 Briermoor Crescent Ottawa, Ontario K1T 3G7 (613) 738-2248

July 7, 1994

Nuinsco Resources Ltd., 908 The East Mall, Etobicoke, Ontario, M6B 6K2. (06)

Invoice: June, 1994.

#### Rainy River Project, Richardson Township Grid.

For professional fees relating to geological mapping and sampling on the grid established in Richardson Township, Ontario. Also for map preparation and draughting supervision.

20 days @ \$230/day	-	\$4600.00
G.S.T. @ 7%	-	\$ 322.00
Expenses: As per attached form	-	\$1703.36
Total	-	\$6625.36

Sincerely, Paul Jones

# PAUL L. JONES

September 1, 1994.

Nuinsco Resources Ltd.,
908 The East Mall,
Etobicoke,
Ontario,
M6B 6K2.
(08)

#### Invoice: August, 1994.

# Rainy River Project, Richardson Township.

For professional fees in August; relating to the enzyme leach soil sampling program, stripping and trenching program, and report preparation (Richardson Twp., mapping report).

24 days @ \$235/day-\$5640.003 days<br/>17 days<br/>4 dayssoil sampling<br/>outcrop mapping/stripping<br/>report preparation-\$5640.00G.S.T. @ 7%-\$ 394.80Expenses-\$ 1929.51Total-\$ 7964.31

Sincerely, Paul Jones. **G.F. Archibald Geological Services Ltd.** 3315 Norfolk Road Victoria, B.C., V8R 6H5 (604) 595–6281 • fax (604) 595–3899

August 15,1994

# **IN ACCOUNT WITH**

Nuinsco Resources Ltd 908 The East Mall Etobicoke, Ontario M9B 6K2

RE: Geological mapping Richardson Township, Ontario 20 days @ \$300.00 per day-----\$6000.00

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# G. F. ARCHIBALD

# EXPENSE SUMMARY

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- R.L. Tomlinson Drafting & Blueprinting Inc.

107 Cumberland Street North • Thunder Bay, Ontario P7A 4M3 • (807) 345-6375

- August 31, 1994

Nuinsco Resources Ltd.
 908 The East Mail
 Etobicoke, Ontario
 M9B 6K2

STATEMENT	S	T	Α	T	Ē	Μ	Ε	Ν	T
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Date: Project: P.O. No.:	6-JUL-94					41	- 299 -	- Pulp; prepped on other workorder 0.00 A-212 Standard W.R.A. 28.00 28	28.00	1148.00
Account:	۲				 			Total Cost (Reg# R100938885 ) GST	***	1148.00 80.36
								TOTAL PAYABLE (CDN)	-	1228.36
Billing:	For analysis performe Certificate A9418459	For analysis performed on Certificate A9418459	c							
Terms:	Payment du 1.25% per m charged on (	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts	f invoice er annum) unts							
Please Rei	Please Remit Payments to:	ö								10.000
	CHEMEX LABS LTD. 212 Brookebank Ave., North Vancouver, B.C. Canada V7J 2C1	<b>ABS LTD.</b> Ink Ave. Iver, B.C. 2ci								
5.44 				•.						
										<u>.</u>

	Chemex Labs	Ltd.	) ) ) / / / / / / / / /	-	-	-
<b>)</b>		- e	908 THE EAST MALL Etobicoke, on M9B 6K2			
			INVOICE NUMBER	I941	8458	
BILLING	INFORMATION	# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	ANOUNT
Date: Project: P.O. No.: Account:	24-JUN-94 LVY	63		2.50 9.50 1.10		
Comments:	10		<ul> <li>Nitric-aqua-</li> <li>Geochem ring</li> <li>0-5 lb crush</li> <li>Au pob</li> </ul>	1.80 2.50 9.50	18.05 14.05	1137.15 154.55
Billing:	For analysis performed on Certificate A9418458		(Reg#	Total R100938885 )	10	L 4
Terms:	Payment due on receipt of invoice 1.25% per month (15% per annum) charged on overdue accounts			ABLE		1362.12
Please Rer	Please Remit Payments to:					
	CHEMEX LABS LTD. 212 Brooksbank Ave. North Vancouver, B.C. Canada V7J 2C1					

JUNE 27. 1994 R Lives Project 16875 (PRIMERTY ALGO )-STAXING MR Doug HUME GST 118125 - NUINSCO Bescuhcos LtD. LINE CUTTWG. 580E 406-56 657 - 908 East Mall ETOBICOKE. ONT. M9B 4K2 Fax # 416-626-0890 Dear Doug: Enchosed is AN INVOICE Pour the LINECUHING AT BLAck Howk, Fillin Lines and the Staking IN Hensky & Sonn Townships 617 17.6 Km of cuthins at 330/Km = #5808 40650 STAKING IN HENNAY & SENA TUP To cover the Sectito zine F16,875 1181 23 MALIN Sub TotaL 22,683 1587 8 ⊥[ JUL - 4 1994 )) kh#234- \$24,275.81 Gst 81,582.81 The Total smout owing 24,270.81 thank 400 Vone f. Mu Carlo Dr. thesk-dow rof cost enclosed GST. # 110546405

P.02 PAGE#2

June 27-1994

- Line culting Al Black Howk -Lines: LSW, 3W, IW, ITE 19E 2IE cut 800 Melots - LIE, 3E, 5E, 7E, 9E, IIE, ISE, ISE Cut 1600 Metals - Table Amount cut 17.61(m cut - Rt 330/Km = 5,808

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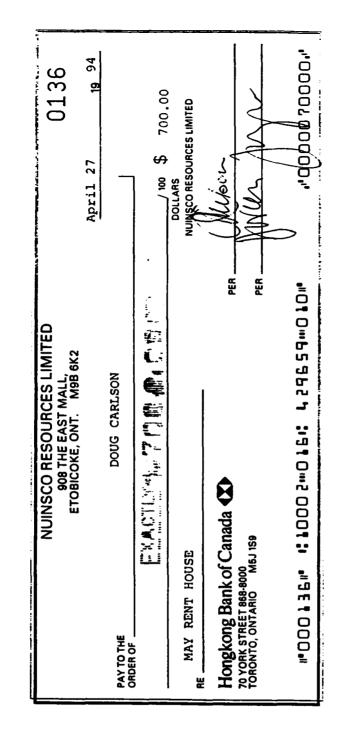
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		/ <b>100 \$</b> 700.00
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70 YORK STREET & TORONTO, ONTAI		Mon mi
<b>••</b> 000 8	21" 110002-0161 429659-010"	•*0000070000•*

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Ministry of

and Mines

Northern Development

# Report of Work Conducted After Recording Claim

Mining Act

Personal int. Ation collected on this form is obtained under the authority of the this collection should be directed to the Provincial Manager, Mining Lands, M Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.



Transaction Number

900

Instructions: - Please type or print and submit in duplicate.

- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
  - A separate copy of this form must be completed for each Work Group.
  - Technical reports and maps must accompany this form in duplicate.
  - A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s)	Terth Alla (101899)	Client No.
1908 The East Hall, Etablishe, O	abrie, / Dox Jog Neeber Taile, Oat.	Telephone No. 46-626-040 807-482-802
Mining Division	Richardien Potte tur.	M or G Plan No.
Dates Work From: 2 105 11	To: 17/06/94	

#### Work Performed (Check One Work Group Only)

 Work Group	Туре					
Geotechnical Survey						
Physical Work, Including Drilling						
 Rehabilitation		PECEIVED				
 Other Authorized S i	CTION 13 ONLY	UCT 5 - 334				
 Assays	Geochemical Sompling	MINING LANCE BRANCH				
Assignment from Reserve						

Total Assessment Work Claimed on the Attached Statement of Costs \$ 2611 2610

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)

Address						
27 Bronnoor G. Ottown, out, KIT 367						
3315 Norblk RJ, Victoria, B.C. JAR GHT						

#### (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	Dete	Recorded Holder or Agent (Signature)
report were recorded in the current holder's name or held under a beneficial interest	22/09/91	
by the current recorded holder.	22101114	hand and and

#### **Certification of Work Report**

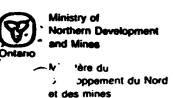
I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true. Name and Address of Person Certifying

land Jone,	27 Bramoor sesent.	citize, out, KIT 367	
513 738 2248	Date 22/09/74	Certified By (Signature)	

# For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp	٦
		In Smith		
	Deemed Approval Date	Date Approved		
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	Dare 1101 de for Americments Sert			
	2195 19 1994		and the second s	

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•••••										16	•	-	•	•	-			Number Of Units
-76-11-	2610									ø	194 194	14.	212	776	106	21.2	tr'	Value of Assessment Work Done on this Claim
-264-	2610					RE				2610	PO.	ø	-54	æ	-9.	ø	æ	Value Applied Claim
-192-	2610								-	ø	105 105	ાર્લા	212	776	lac	212	151	Assigned from this Claim
~										ø	ø	Þ	ø	ø	م	ø	¢	Reserve: Work to be Claimed at a Future Date
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# Statement of Costs for Assessment Credit

## État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines



N9410.00097

**2.15614** 

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

#### 1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totais Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's	Type	2610	
Fees Droits de l'entrepreneur	-		
et de l'expert- conseil			-
Supplies Used Fournitures utilisées	Туре		
	- SEIVE	<b>C</b>	
Equipment Piental	Type		
Location de matériel			
	Total Di Total des cod	rect Costs Its directs	

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

#### **Filing Discounts**

- 1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

#### **Certification Verifying Statement of Costs**

I hereby certify:

that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

Recorded Holder, Agent. Position in Company) that as . \_ I am authorized

to make this certification

Les renesignements personnels contenus dans la présente formule sont recusilis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collece de cas renssignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

#### 2. Indirect Costs/Coûts Indirects

\*\* Note: When claiming Rishabilitation work indirect costs are not allowable as assessment work. Pour le remboursement des travaux de réhabilitation, les

cours indirects no sont pas admissibles en tant que travaux d'évaluation.

Туре	Description	Amount Montant	Totais Total global
Transportation Transport	Туре		
Food and Lodging Nourriture et hábergement			
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of India Total partiel des coûts		
	not greater than 20% of Dir (n'excédent par 20 % des c		
Total Value of Asso (Total of Direct and A Indirect costs)	(Total das es	le du cridit B die drock	4.1. 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 - 1910 -

Note : Le titulaire enregistré sons tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

#### Remises pour dépôt

- 1. Les traveux déposés dans les deux ans suivent leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur sotale du crédit d'évaluation	Evaluation totale demandée
× 0.50 =	

#### Attestation de l'état des coûts

J'atteste par la présente :

que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
tane house	15/09/21
nu la Continent de la cestersones le m	naturn entre de se sets frute



# Report of Work Conducted After Recording Claim

**Mining Act** 

N9410. 00096 MINING LANTS

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about his 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.

### **nstructions:** - Please type or print and submit in duplicate.

2.15614

Transaction Number

- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s)		Client No.
Numer - Rosenwas LAS Duald Hack	orcharm ( 16755) KENL Alla- (101897)	
		Telephone No.
901 The East Mall Elderaber Od. 201	223 St. E. Tout Trouse, and Box 201, Mark Ells ant	116-626-070 / 507-102-1102
Mining Division	Township/Area	M or G Plan No.
trance	Richardson Folly Twy.	
Dates Work From: 2.105/14	To: 17/06/94	

#### Work Performed (Check One Work Group Only)

Work Group	Туре	
Geotechnical Survey Goological Mapping		
Physical Work, Including Drilling	RECEIVED	
Rehabilitation		
Other Authorized SECTION _5 ONLY		
Assays	MINING LANDS BRANCH	
Assignment from Reserve		

Total Assessment Work Claimed on the Attached Statement of Costs

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.

\$ 19430

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

Name	Address
Famil dours	21 Browner Greent, othere, o.t., KIT 307
Grome Anhibald	3315 Norfolk RJ., Victoria, B.C., VER GHS
<u></u>	

#### (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	Date	Recorded Holder or Agent (Signature)
report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder	and a last	
by the current recorded holder.		"and many

#### **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 Tail Jour , 27 Bronner Gescart, Offense, Oct, MT 367

Certified By (Signature)

44

Telepone No Date 22 /09/91 61: 723 2218

## For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Blecorder	Received Stamp
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(1941 /00/191)				T			<b> </b>												ZĘ
												2	• ]	5	6	1 4	1		Work Report Number for Applying Reserve
Total Number of Claims	1																165-127	1105/26	Cialm Number (see Note 2)
																	e.	2	Number Claim Units
Total Value Work Done	29.132	05466															æ	÷	Value of Assessment Work Done on this Claim
Total Value Work Applied	27,828														- 3			ж Ла	Value Applied to this Claim
Total Aveigned From	27828																-02	a	Value Assigned from this Claim
Total Recorve	that	1602															ø	<u>á</u>	Reserve: Work to be Claimed at a Fulure Date
wh 1 2 3. In	<ol> <li>Credits are to be cut back equally over all claims contained in this report of work.</li> </ol>																		
 :e	Note 2: If work has been performed on patented or leased land, please complete the following:           Signature         Date           Signature         Date																		

													2	1	5	6	4	Appiying
Total Number of Cielma	105425	llost 1	loch3	11-201	165/20	P1-201	1105418	1105417	liocdu	S'h, hat 5 cm it	N/4, 1015 Cm I	N/2. 1.1.1.6.I	5%. L.+ 4. c. T	~1, Ltp. c.T	1. 5'h. Lts al	516,516, Lots, C-I	N1/2. 6. 12. 6. IT	(see Note 2)
L	0*	16	£		4	2	16	•	8	. =	4	*	:		1	,	av E	Units
Total Value Work Done	<b>-9</b>	~2	<b>,</b>	ø	Ø	ø,	×3	va	æ	415 1295	3679	3675	3679	3619	3679	9619	3679	on this Claim
Total Value Work Applied	3200	:::	1600	Š2 uro	1600	3200	blow	24مه	5300	Ð	<b>بع</b> 0	- <b>0</b> 5 CT 5	- <b>0</b> . - 199	<b>\$</b> 13 14	<b>\$</b> .	0	e.	Clein
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Total Assigned From	ø	a	ø	ø	ø	ø	æ	-Ø-	Ð	2015	3679	3479	3679	3679	3679	3619	3619	<b>this Claim</b>
Total Reserve	ø	Å	ø	P	ø	ø	A	-\$	9	-test-		Э.	<b>C3</b> -1	·.Э	ø	.9	÷	a Future Date



Ministry of Northern Development and Mines

Minime du Boppement du Nord et des mines

# Statement of Costs for Assessment Credit

# État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7284.

# Transaction No.Nº de transaction W9410 08096 2.15614

2. Indirect Costs/Coûts Indirects

#### \* Note: When claiming Rehabilitation work indirect costs are not allowable as assessment work.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

> Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Туре	Description	Amount Montant	Totals Total global
Transportation Transport	Type Tand Leose	1063	
	Tromal	978	
		3015	
			· Cheff
Food and Lodging Nourriture et hébergement	Hower Rent	1400	
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of India Total partiel des coûts		6.6.
	not greater than 20% of Dir (e'excédant pas 20 % des		<b>T</b> ESS BY
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Note : Le titulaire enregistré sera tenu de vériller les dépenses demandées dans le précent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des traveux d'évaluation précentée.

#### Remiees pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calcuts ci-dessous.

,	Valeur totale du crédit d'évaluation	Evaluation totale demandée	ĩ
	× 0,50 =		i

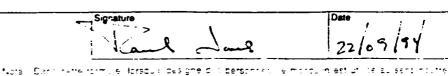
#### Attestation de l'état des coûts

J'atteste par la présente :

que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé (titulaire enregistré, représentant, poste occupé dans la compegnie)

à faire cette attestation.



1. Direct Costs/Coûts directs Amount Totale Type Description Montant Total global Lebour Main-d'oeuvre Wages **Field Supervision** , rt Supervision sur le terrain Туре Contractor's and Consult Sapovision \$373 Fees Droits de Darghtin 2,937 l'entrepren et de l'expert-\_4.\_ 6215 2625 consell Line . Type Supplies Used Fournitures -BECEIVED HT-Type Equir nial n de Loc ----

> Total Direct Costs Total des coûts directs

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

#### **Filing Discounts**

- 1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

# **Certification Verifying Statement of Costs**

I hereby certify:

that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

to make this certification

2212 (49)



Geoscience Approvals Section Ministry of Ministère du 933 Ramsey Lake Road Northern Development Développement du Nord 6th Floor and Mines et des Mines Sudbury, Ontario P3E 6B5 Telephone: (705) 670-5853 Fax: (705) 670-5863 December 5, 1994 Our File: 2.15614 Transaction **#**: W9480.00096

Mining Recorder Ministry of Northern Development and Mines 808 Robertson Street Box 5200 Kenora, Ontario P9N 3X9

Sir/Madam

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS N1/2, Lot 2, Con. II et al. IN RICHARDSON & POTTS TOWNSHIPS

Assessment work credits have been approved as outlined on the report of work form for the submission. The credits have been approved under Section 12 (Geology), of the Mining Act Regulations.

The approval date is November 29, 1994.

If you have any questions regarding this correspondence, please contact Steven Beneteau at (705) 670-5855.

ORIGINAL SIGNED BY:

Yours sincerely,

Roncochil

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

SBP

SB/dl

cc: Resident Geologist Kenora, Ontario Assessment Files Library USudbury, Ontario



Ministry ofMinistère duGeoscienceNorthern DevelopmentDéveloppement du Nord933 Ramseyand Mineset des MinesSudbury, OrBar Geoscience933 RamseyBar Geoscience938 RamseyBar Geoscience938 RamseyBar Geoscience938 RamseyBar Geoscience938 RamseyBar Geoscience938 RamseyBar Geoscience938 RamseyBar Geoscience<t

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

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

December 5, 1994

Our File: 2.15614 Transaction **#**: W9480.00097

Mining Recorder Ministry of Northern Development and Mines 808 Robertson Street Box 5200 Kenora, Ontario P9N 3X9

Sir/Madam

#### Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS N1/2, Lot 2, Con. II et al. IN RICHARDSON & POTTS TOWNSHIPS

Assessment work credits have been approved as outlined on the report of work form for the submission. The credits have been approved under Section 13 (Geochemical), of the Mining Act Regulations.

The approval date is November 29, 1994.

If you have any questions regarding this correspondence, please contact Steven Beneteau at (705) 670-5855.

ORIGINAL SIGNED BY:

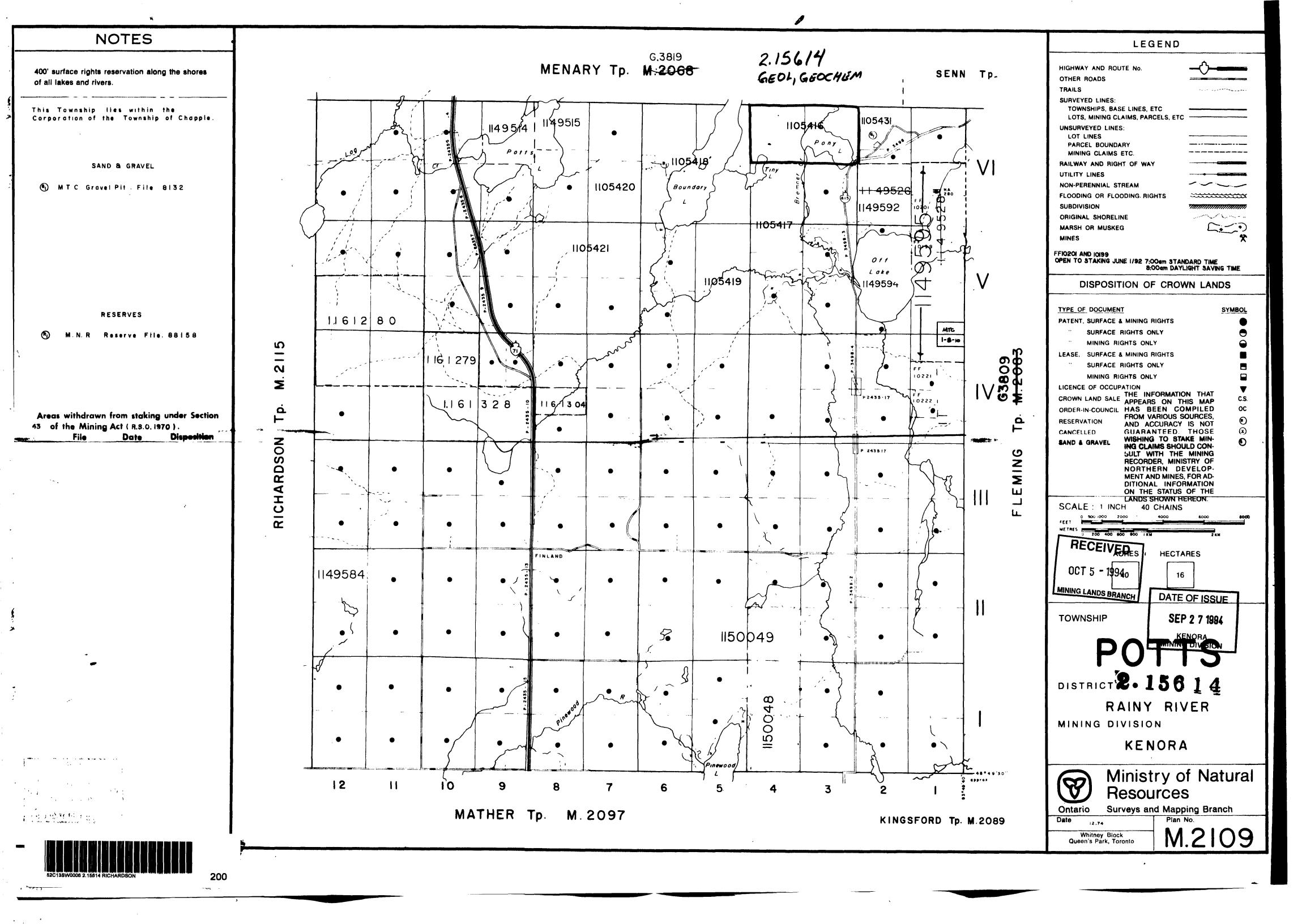
Yours sincerely,

Roncostie

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

SB/dl

cc: Resident Geologist Kenora, Ontario Assessment Files Library  $\mathcal{L}'$ Sudbury, Ontario



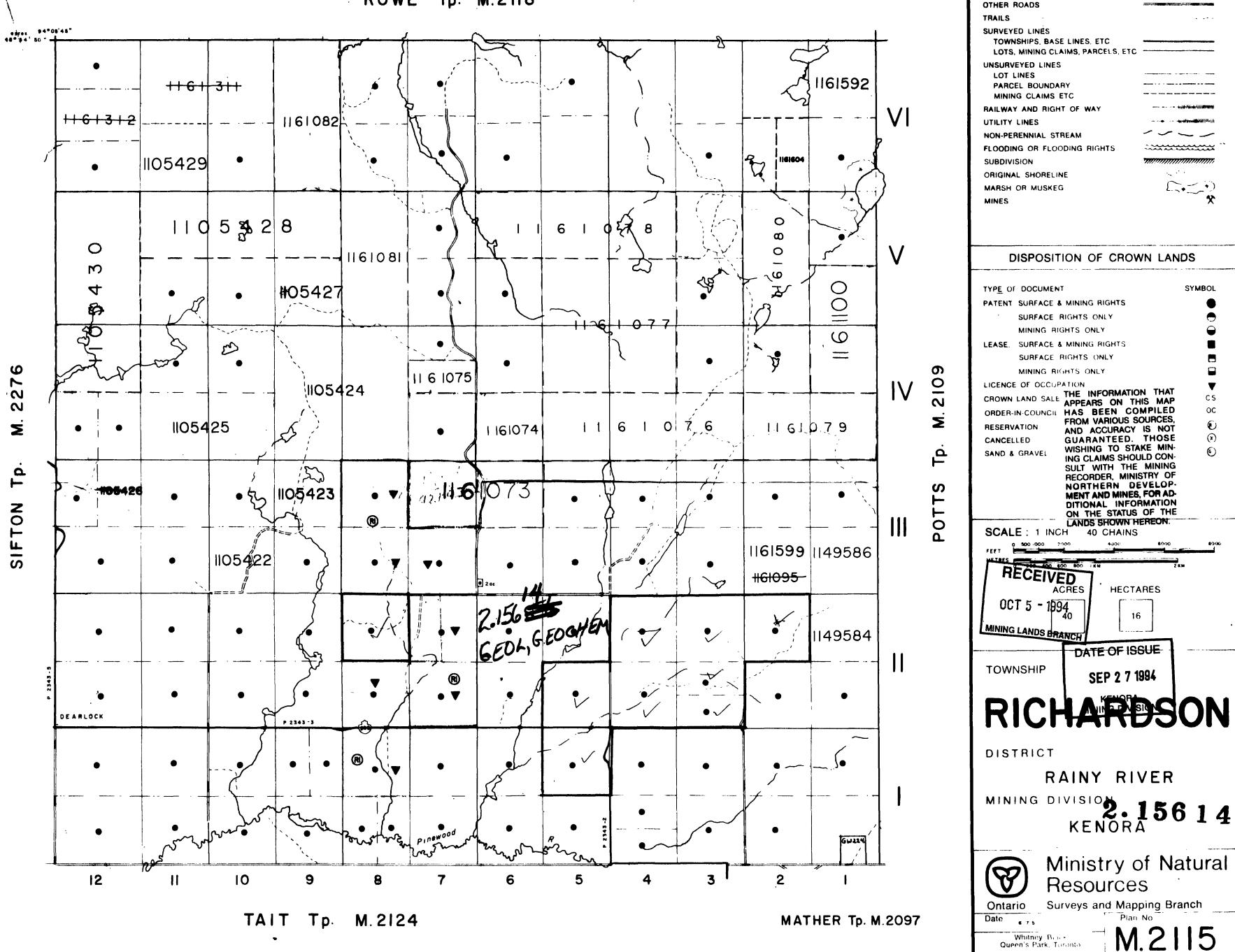
# NOTES

400' surface rights reservation along the shores of all lakes and rivers.

# This Township lies within the Corporation of the Township of Chappie.

(R) W-K-43/93 SRAMR JUNE 4/93

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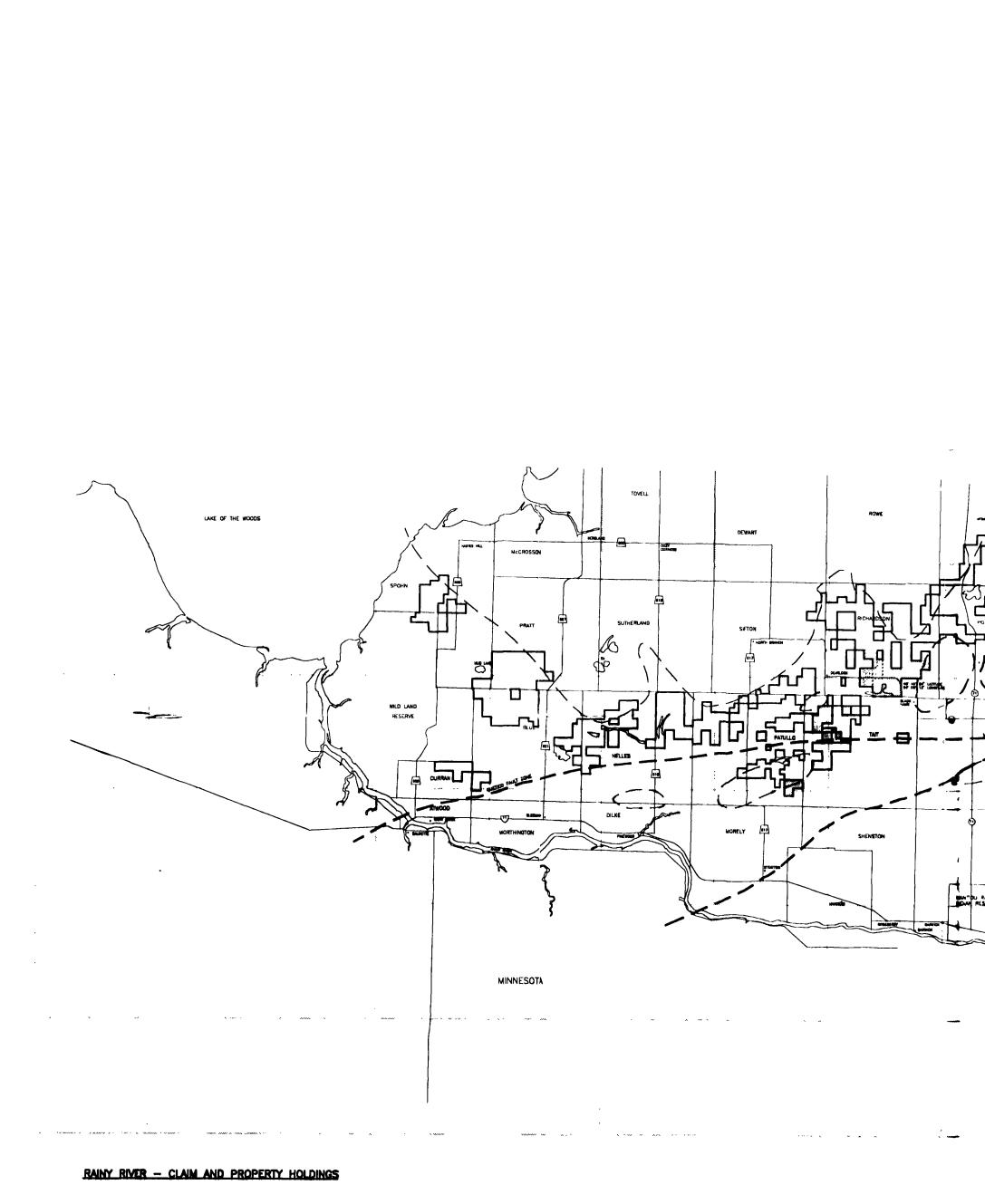
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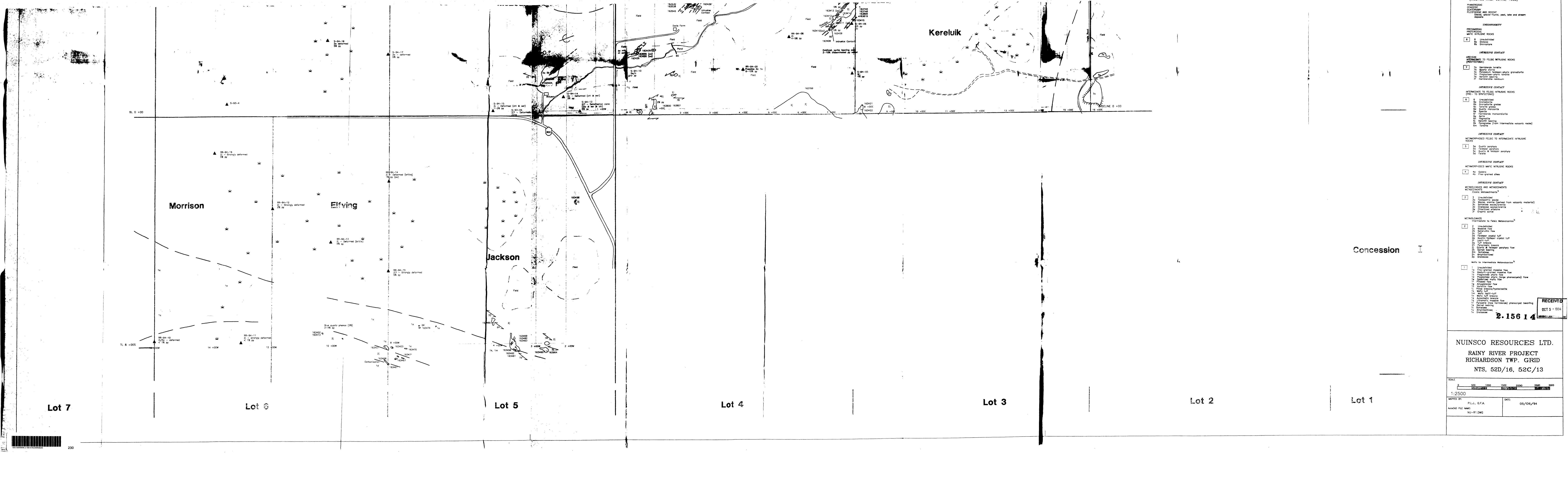
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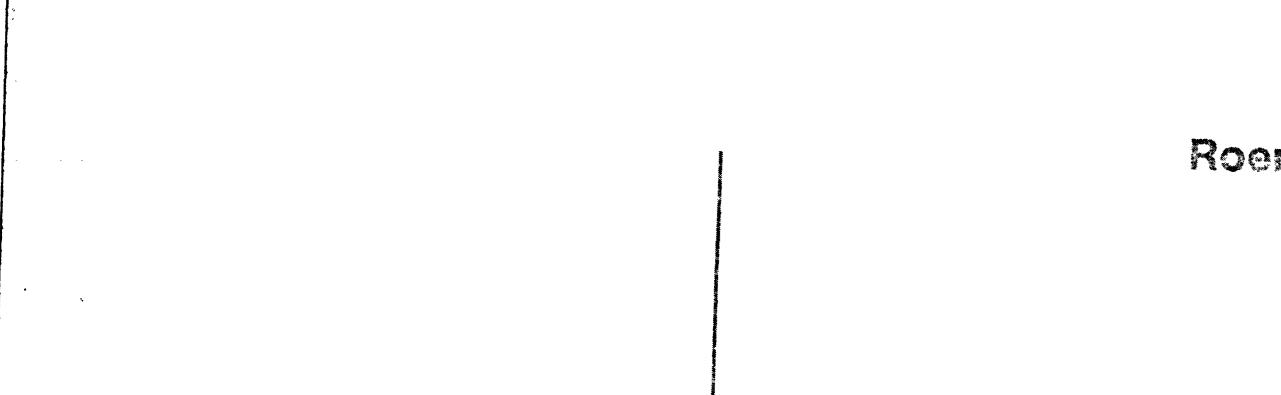
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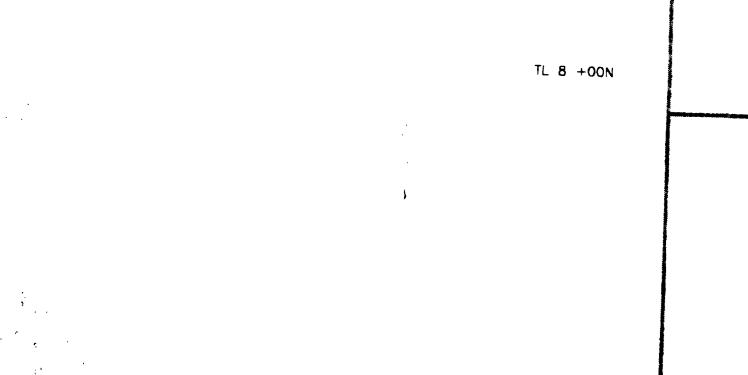
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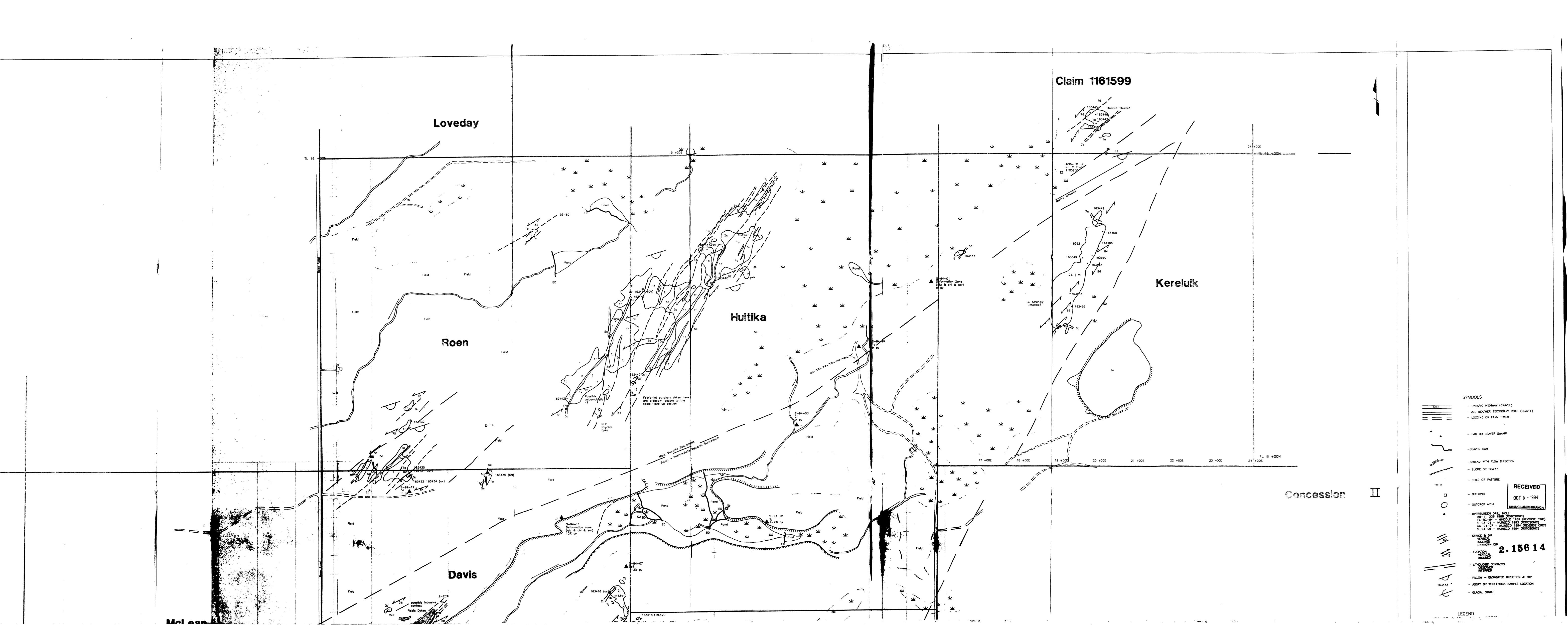


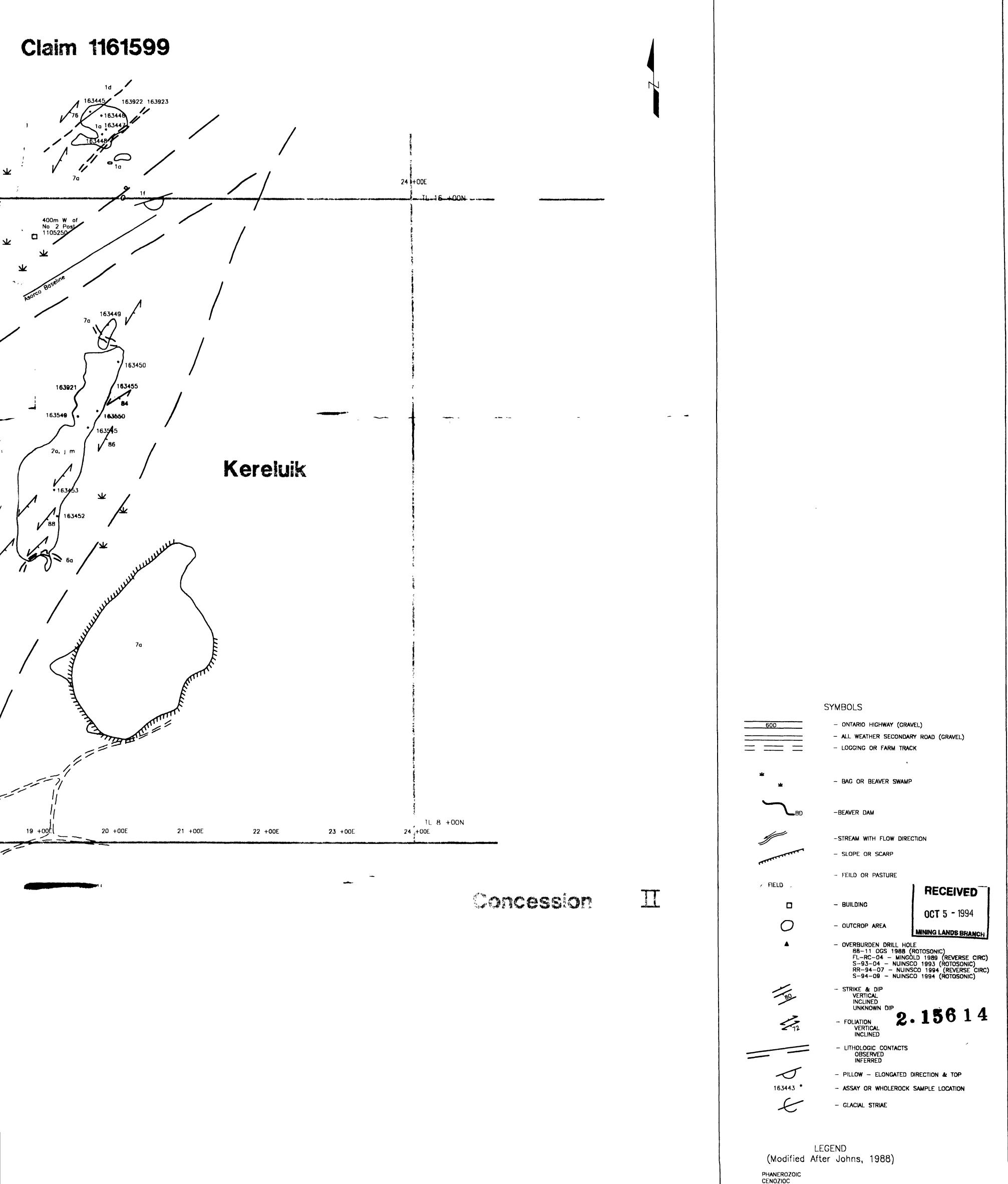


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QUATERNARY PLEISTOCENE AND RECENT Glacial, glacial—fluvial, peat, lake and stream deposits
UNCONFORMITY PRECAMBRIAN PROTEROZOIC MAFIC INTRUSIVE ROCKS 8 8 Unsubdivided 8 9 Diabase
8b Granophyre INTRUSIVE CONTACT ARCHEAN INTERMEDIATE TO FELSIC INTRUSIVE ROCKS (POSTTECTONIC)
7       7a       Hornblende tonalite         7b       Quartz diorite         7c       Potassium feldspar-phyric granodiorite         7d       Plagioclase-phyric tonalite         7e       Xenolith bearing         7f       Hornblendite residuum
INTRUSIVE CONTACT INTERMEDIATE TO FELSIC INTRUSIVE ROCKS (PRE- TO SYNTECTONIC) 6 6 Unsubdivided 6a Granodiorite 6b Granodiorite gneiss
6 Granodiorite 6 Granodiorite 6 Granodiorite 6 Granodiorite 6 Tonalite gneiss 6 Quartz monzonite 6 Syenite 6 Hornblende monxondiorite 6 Aplite 6 Pegmatite 6 Pegmatite 6 Xenolith bearing 6 Paragneiss (from intermediate volcanic rocks) 6 Tonalite
INTRUSIVE CONTACT METAMORPHOSED FELSIC TO INTERMEDIATE INTRUSIVE ROCKS
5 5a Quartz parphyry 5b Feldspar porphyry 5c Quartz & feldspar porphyry 5d Felsite
INTRUSIVE CONTACT METAMORPHOSED MAFIC INTRUSIVE ROCKS
4 4a Gabbro 4b Fine-grained dikes
INTRUSIVE CONTACT METAVOLCANICS AND METASEDIMENTS METASEDIMENTS Clastic Metasediments <sup>b</sup>
3 3 Unsubdivided 3a Feldspathic wacke 3b Wacke, arenite (derived from volcanic material) 3c Schistose wacke/arenite 3d Gneissose wacke/arenite 3e Chloritized siltstone 3f Graphic schist
METAVOLCANICS Intermediate to Felsic Metavolcanics <sup>b</sup>
2 2 Unsubdivided 2a Massive flow 2b Spherulitic flow 2c Tuff

20 Feldspar crystal tuff 20 Feldspar crystal tuff 20 Quartz-feldspar crystal tuff 21 Lapilli-tuff 22 Tuff breccia 22 Pyroclastic breccia 23 Quartz & feldspar porphyry flow 24 Garnet bearing 27 Schistose ...... Concession 2m Schistose 2n Amphibolitized 2p Gneissose ------Mafic to Intermediate Metavolcanics <sup>b</sup> 1 Unsubdivided 1a Fine-grained massive flow 1b Medium-grained massive flow 1c Plagioclase phyric flow 1d Plagioclase phyric (large phenocrysts) flow 1e Epidotized mafic flow 1f Pillowed flow 1g Amygdaloidal flow 1h Variolitic flow 1j Pillow breccia/hyaloclastite 1k Mafic tuff 1m Mafic lapilli-tuff 1m Mafic lapilli-tuff 1m Mafic tuff breccia 1p Autoclastic breccia 1g Ultramafic massive flow 1r Pyroxene (now hornblende) phenocryst bearing 1s Garnet bearing 1t Schistose 1u Amphibolitized 1v Gneissose 1 RECEIVED OCT 5 - 1994 2.15614 MINDIG LANS - 10. CH NUINSCO RESOURCES LTD. RAINY RIVER PROJECT RICHARDSON TWP. GRID NTS, 52D/16, 52C/13 SCALE 500 1000 1500 2000 2500 3000 0 Service of 1:2500 Lot 2 Lot 1 MAPPED BY. DATE P.L.J., G.F.A. 05/06/94 AutoCAD FILE NAME: NU-R1.DWG