



52F05SW0076 2.7868 DOGPAW LAKE

010

GEOLOGICAL REPORT
PENN OPTION
AREA OF HERONRY LAKE
AREA OF DOGPAW LAKE
NTS 52F4 / 52F5

RECEIVED

MAR - 8 1985

MINING LANDS SECTION

A. Aubut
Senior Geologist
Canadian Nickel Company Limited
Copper Cliff, Ontario
February, 1985

Q. 2.55AD



52F05SW0076 2.7868 DOGPAW LAKE

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SUMMARY

During September, 1984, an exploration program consisting of geological, magnetometer, VLF and limited IP surveys, was carried out over 34 contiguous claims. These cover most of Burnt Peninsula on Kakagic Lake, in the Areas of Heronry and Dogpaw Lakes.

The claim group is underlain by a differentiated mafic-ultramafic sill with enclaves of felsic to intermediate metavolcanics derived from the surrounding country rocks. These are all cut by a number of generally narrow, sinuous felsic to intermediate dykes. The sill forms a large antiform with the core showing much hydrothermal alteration. In this area the altered gabbros exhibit a definite zonation consisting of iron carbonate alteration within a chlorite alteration envelope. These rocks are commonly weakly to strongly foliated with some associated shearing.

1.0 INTRODUCTION

An exploration program, consisting of geological, magnetometer, VLF and limited IP surveys, was carried out over the land portion of the claim block. The geological survey was performed between September 1 and September 14 and from September 20 to September 22, 1984, by a three member field crew.

2.0 LOCATION AND ACCESS

The property is located 70 km southeast of Kenora and 14 km north of Nestor Falls. The property straddles the boundary between the Heronry Lake (G-2621) and Dogpaw Lake (G-2613) claim maps and covers Burnt Peninsula on the northeast side of Kakagi Lake.

Access is by boat across Kakagi (Crow) Lake from Highway 71. Several private lodges and a public dock provide boat launching facilities.

3.0 PROPERTY

3.1 Claims (Fig. 2)

The property consists of 34 contiguous claims held by the Canadian Nickel Company Limited, under option from Welcome North Mines Limited. The geological survey was carried out over the following claims:

Claim No

K 758837 - 38
K 777705 - 08 incl.
K 777718 - 19
K 777723 - 25 incl.
K 589477 - 80 incl.
K 589482
K 638449 - 50
K 638455 - 65 incl.
K 638467 - 68
K 638471 - 72
K 696158

3.2 Gridding

Baselines were established at an azimuth of 360 deg. Cross lines were cut and chained at 100 m intervals with pickets planted every 25 m across the property.

4.0 PREVIOUS EXPLORATION

The first reported work for the property occurred during 1944 when Ernest Wensley staked ten claims in the east-central part of the present claim block. At approximately 96+75N/96+75E some stripping and trenching was done. Two samples taken by R. Thomson, Resident Geologist, in 1945 returned 0.63 opt and 0.16 opt gold.

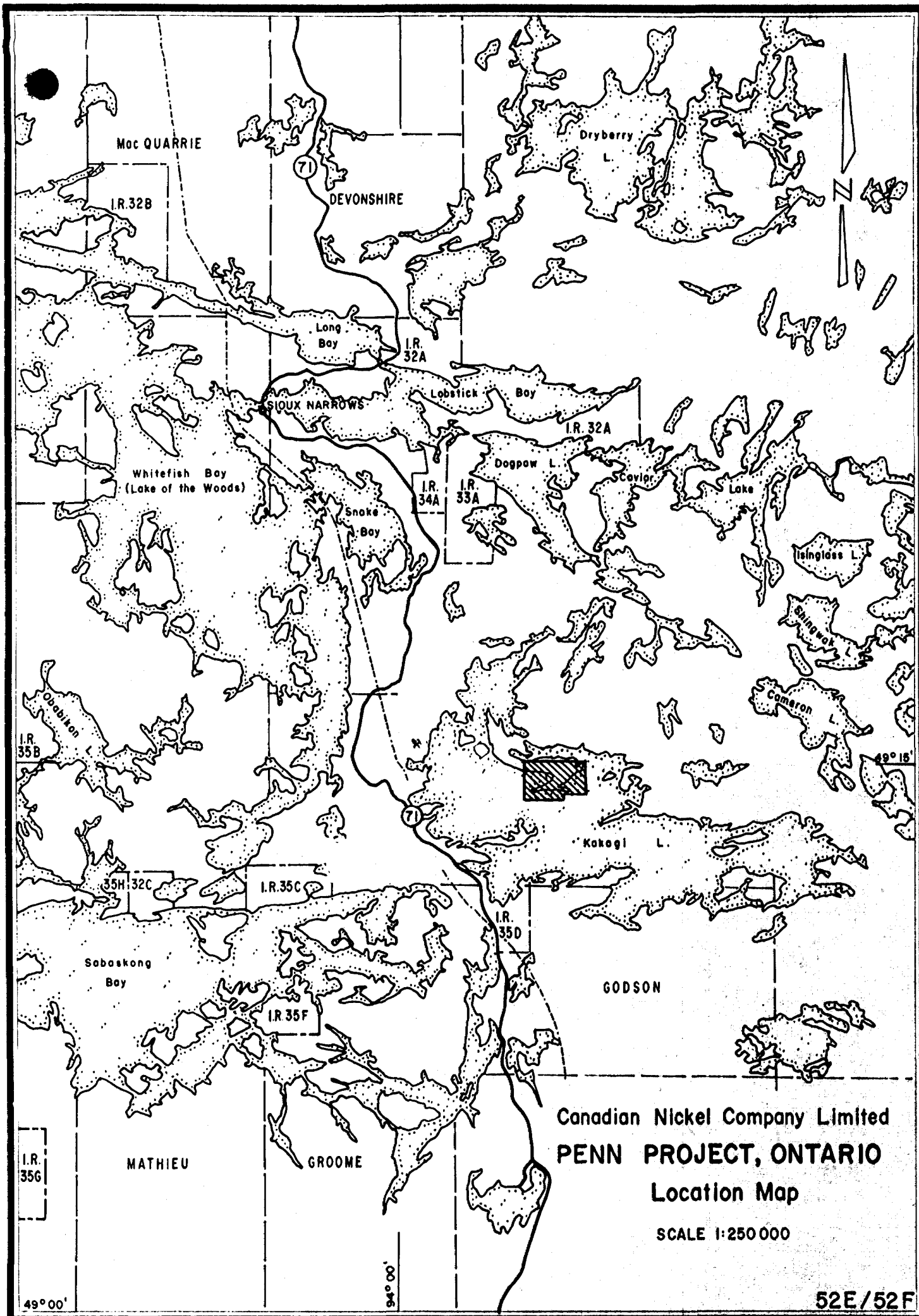
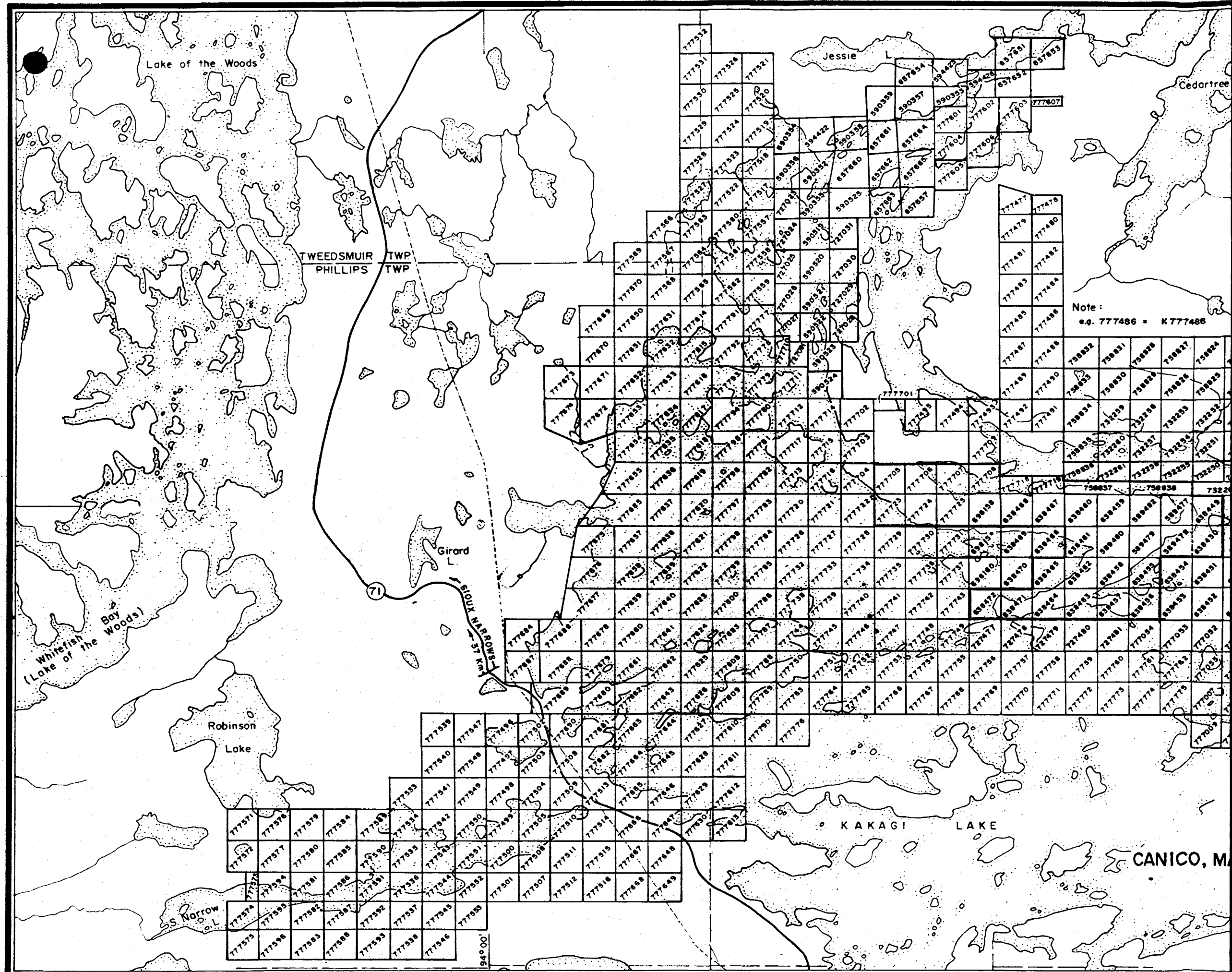
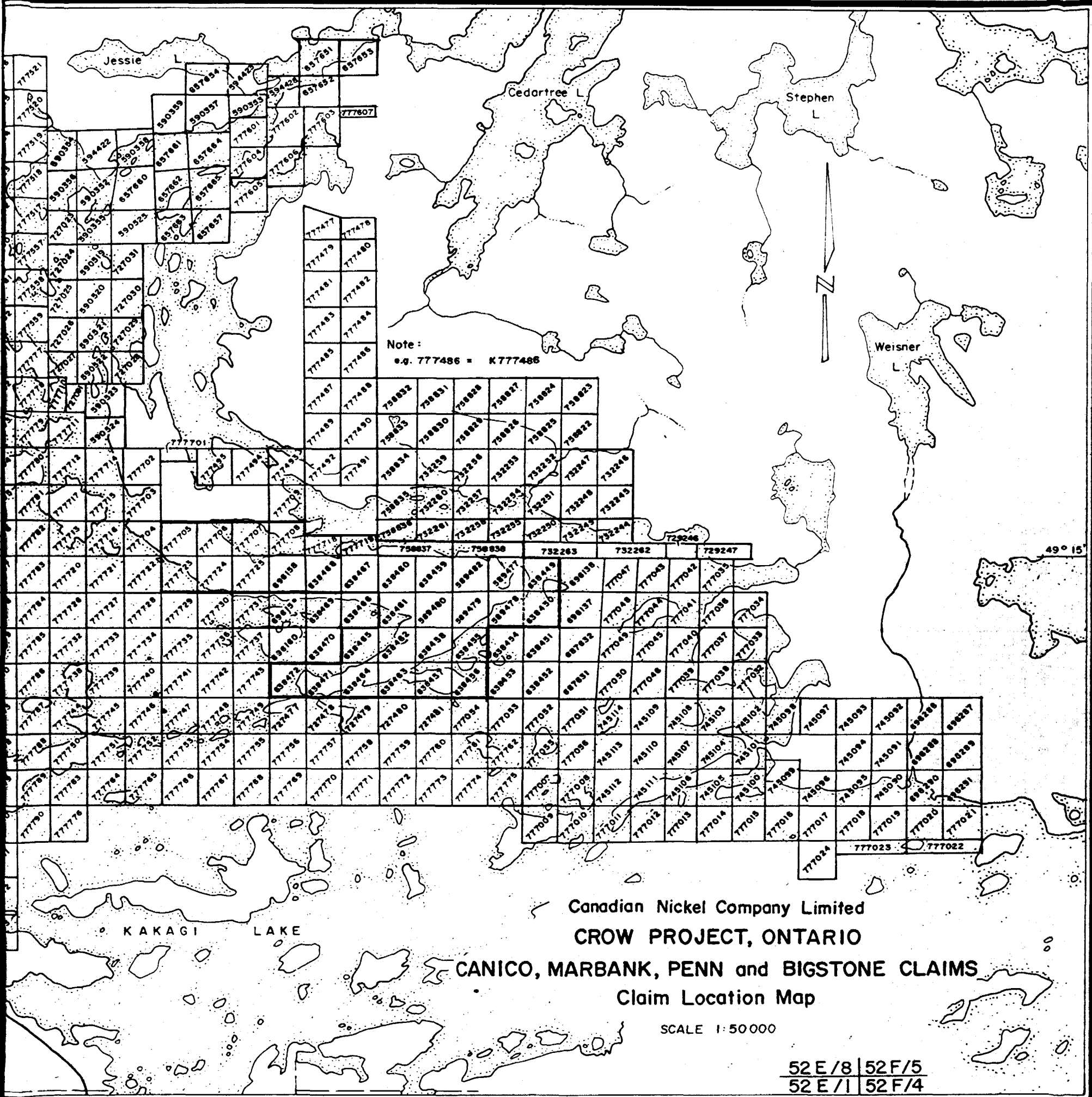


FIGURE 1





Also at this time (1944 - 45) Harry Byberg was conducting some prospecting on what was called the Burnt occurrence (located at approximately 86+60N/76+00E). As a result of his prospecting Mr. Byberg obtained an assay of 0.98 opt gold from a grab sample of a very narrow quartz vein.

The area remained dormant until 1974 when Roy Martin and associates restaked both showings. The property was re-prospected and three more showings were discovered. After some trenching the claims were allowed to lapse in 1976. Mr. Martin again restaked the ground in 1981. During 1982 further prospecting, trenching and the cutting of a small grid were completed. In 1983 Welcome North Mines Limited optioned the property. They resampled the trenches and completed limited geological survey and soil geochemical sampling programs (Dawson, 1983). Canadian Nickel Company Limited optioned the property from Welcome North Mines Limited in 1984.

5.0 REGIONAL GEOLOGY

The area is underlain by metavolcanics, metasediments, and mafic to ultramafic intrusives belonging to the Wabigoon Belt of the Superior Structural Province. In the area of Kakagi Lake the belt consists of a package of felsic to intermediate pyroclastics and their reworked equivalents overlying mafic metavolcanics. These have been intruded by differentiated mafic to ultramafic sills. Tectonic forces, likely the product of the diapiric emplacement of the Aulneau Batholithic Complex and the Sabaskong Batholith, have folded this terrain. The folds have steeply plunging fold axes and near-vertical axial planes. The present property covers a portion of an antiform as defined by a large mafic-ultramafic sill (Blackburn, 1981).

6.0 GEOLOGICAL MAPPING

Geological mapping was performed by a three member field crew during a seventeen day period including September 1 to September 14 and September 20 to September 22, 1984. The object of the survey was to determine what lithologies are present, their areal extent, the presence and distribution of alteration, and to locate areas of auriferous mineralization. All grid lines were traversed as well as areas between grid lines where outcrop was evident.

The topography is rugged, consisting of several convergent ridges of peridotite flanked by lower ridges and hills of gabbro and related rocks. Outcrop is extensive, with about 40% exposure. Overburden consists of glacially derived boulder fields with some areas of clay and sand. Forest cover is widespread with much underbrush, although it is rather thinly treed with poplar and birch. Mixed pine is found on most of the high ridges. Balsam and spruce are scattered throughout. Cedar, black ash and diamond willow are dominant in the low, swampy areas.

6.1 Lithology

Table 1 presents the lithologic legend for the present geological survey. Three main lithologic groups are present on the property: felsic to intermediate metavolcanics, mafic and ultramafic intrusive rocks, and felsic to intermediate intrusive rocks.

Felsic to intermediate Metavolcanics

These are present as large xenoliths of the enclosing country rocks included during intrusion of the mafic and ultramafic rocks.

Dacite is pinkish white to grey in colour, is fine to very fine-grained and is typically massive. Trace disseminated pyrite is common.

Dacite tuff is fine-grained, greenish grey in colour, moderately hard and is massive to moderately foliated. Dacite lapilli tuff consists of 5 to 20% felsic to mafic fragments up to 5 cm in dacite tuff matrix. It is commonly weakly carbonatized (iron carbonate). Some of the felsic fragments are feldspar phyrlic.

Porphyritic dacite consists of 10 to 20% anhedral pyroxene crystals up to 5 mm in size set in a green, aphanitic groundmass. It is massive to weakly foliated.

Andesite is rare, with only one small exposure found. It is green, fine grained, massive and has 1% finely disseminated pyrite.

Mafic and Ultramafic Intrusive Rocks

This group forms a large, differentiated sill that underlies much of the property. This sill, in the northwest quadrant, consists of two sub-parallel peridotite layers that enclose a central core of olivine gabbro and pyroxenite. All of the rocks in this area of the property are quite fresh with no deformation evident.

At approximately line 8000E there is a pronounced change to these lithologies; olivine gabbro gives way to gabbro, pyroxenite layers flanking the peridotite become wider and more continuous along strike, and the south peridotite layer disappears, although the magnetometer survey shows that the associated mag trend although much diminished in magnitude, continues parallel to the north layer.

Within the east half of the property the peridotite, which acts as a marker horizon, makes an abrupt change in strike direction indicating the presence of a large antiform. Within the core of this large fold the gabbroic phases have been weakly to strongly deformed and altered. This alteration (see simplified Geology) is zonal and reflects the folded nature of the rocks.

TABLE 1

Table of Lithologic Units

FELSIC TO INTERMEDIATE INTRUSIVE ROCKS

- 3a Quartz Diorite
- 3b Feldspar Porphyry
- 3c Felsite
- 3d Granite

MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS

- 2a Leucocratic Gabbro
- 2b Gabbro
- 2c Olivine Gabbro
- 2d Pyroxenite
- 2e Peridotite
- 2f Chlorite altered gabbro
- 2g Calcium carbonate altered gabbro
- 2h Iron carbonate altered gabbro
- 2i Fuchsite altered gabbro
- 2j Chlorite-carbonate-sericite-fuchsite schist

FELSIC TO INTERMEDIATE METAVOLCANICS

- 1a Dacite
- 1b Dacite Tuff
- 1c Dacite Lapilli Tuff
- 1d Dacite Porphyry
- 1e Andesite

The multiplicity of the peridotite layers and the nonconformity of the pyroxenite preclude generation by normal gravity settling; rather, the evidence indicates probable intrusion after tilting of the enclosing metavolcanics. The sill is probably the product of flow differentiation within two closely spaced sills that merged at a higher level during intrusion but retained the effects of two separate flow regimes.

As indicated by the lithologic legend, the mafic to ultramafic intrusive rock suite has been subdivided first by increasing mafic content, followed by altered equivalents of the gabbro phase.

Leucocratic gabbro is a minor constituent of the sill. It consists of 70% white to light grey-green feldspar with 30% green pyroxene. It is medium grained, massive, and fresh in appearance.

Gabbro flanking the ultramafics is common in the east half of the property. It is medium-grained, massive, and lacks visible signs of alteration. Colour is pale grey-green. Mineralogically it consists of 40 to 50% grass green to dark green mafics and 50 to 60% white feldspar.

Olivine gabbro is very common in the northwest part of the property but is rare or absent elsewhere. This olivine rich zone is apparently in faulted contact with the rest of the sill to the east, where gabbro and its altered equivalents occur. The olivine gabbro is characterized by 5 to 40% brownish green olivine and 10 to 35% white to light green feldspar, with the balance consisting of pyroxene and amphibole. It is massive and generally medium grained, although fine and coarse-grained phases are present. It varies from dark greyish green to grey-green in colour, and is weakly to moderately magnetic.

Pyroxenite is present commonly flanking the peridotite. It is coarse-grained, massive to weakly foliated, dark brownish-green to dark green in colour and is sometimes weakly magnetic. It consists of 90 to 95% pyroxene crystals which produce a rough texture on weathered surfaces. Where it is foliated, the pyroxenes are commonly altered at least in part, to chlorite.

Peridotite is present as ridges that define the folded nature of the sill within the boundaries of the property. It is massive fine to medium-grained, black-green to black on fresh surface and orange brown on weathered surface. Well developed orthogonal jointing is ubiquitous. The peridotite is moderately to strongly magnetic and consists of 20 to 50% pyroxene with the balance being mainly olivine, although 5 to 10% white feldspar is sometimes present.

In the east and south areas of the property, the gabbro is commonly altered to various mineralogical combinations forming distinct mappable units. By far, the most common alteration product is chlorite, usually accompanied by epidotized feldspars. Chloritized gabbro is grey-green to green in colour, medium to coarse-grained, soft, and weakly to strongly foliated.

Within this chlorite envelope are areas of weak to strong calcium carbonate alteration. These flank a core of weak to intense iron carbonate (ankerite) alteration.

The gabbro exhibiting iron carbonate alteration is characterized by a rusty orange oxidation rind, and is brownish grey-green in colour. The iron carbonate has apparently migrated along crystal boundaries and where alteration was most intense, has totally replaced the feldspars. Within this alteration zone are areas of quartz veining with associated silicification, bleaching and pyritization commonly forming narrow envelopes up to 5 cm thick which enclose the veins.

In the area of 90+75N/90+00E there is a zone within the much broader chlorite-iron carbonate alteration envelope where fuchsite (?) is common. Fuchsite alteration is most intense at the east end of this zone with the rock consisting of fuchsite, quartz and iron carbonate, yet still retaining the medium to coarse-grained texture of the original gabbro. Several sets of quartz veins are present, some with a matted network of fine, acicular, light green tourmaline crystals. The fuchsite-chlorite-iron carbonate altered gabbro is lime green in colour in the east portion of the zone and light greenish brown-grey to the west, reflecting a marked decrease in fuchsite content toward the west.

There are several isolated outcrops where the original texture has been obliterated due to shearing and are now chlorite-carbonate-sericite-fuchsite schists. These are strongly foliated, fine-grained, fissile, sericitic, chloritic, moderately to strongly carbonatized, and have 1 to 2% fuchsite as isolated streaks. Colour varies from light yellow-green to light green.

Felsic to Intermediate Intrusive Rocks

These occur as fairly narrow dykes that are typically sinuous and concentrated within the central core of the antiform.

Quartz diorite occurs on claim K638472 within a dilational zone associated with a felsite dyke. It is fine to medium-grained, crystalline, siliceous, leucocratic, with 10% free quartz crystals and is massive. It is weakly to strongly carbonatized and contains 10 to 15% pyrite.

Feldspar porphyry is rare. It is fine-grained, hard, siliceous and pinkish grey in colour. It has 10 to 60% subhedral to euhedral zoned feldspar phenocrysts up to 5 mm in size.

Felsite is common as sinuous dykes that occur predominantly in the east-central part of the property. It is fine-grained to medium-grained, leucocratic, massive to weakly foliated, though locally it can be strongly foliated, is moderately hard and siliceous. Colour varies from light greenish-grey to dark grey to light pink. On weathered surface it is usually light creamy-white. Trace to 1% disseminated pyrite is common.

Minor granite occurs as dykes up to 10 m wide. It is medium-grained, pinkish grey in colour, is massive and has approximately 20% mafic minerals.

6.2 Structure

Using the peridotite as a marker horizon, one may deduce that the property is underlain by the nose of a large fold. No evidence was found during the present survey that confirms whether it is antiformal or synformal or what the plunge is. Previous regional mapping programs (Kage, ABl; Davies and Morin, 1971) show it to be an antiform plunging steeply to the east.

The central portion of the property exhibits three zones of moderately to well developed foliation. Stereographic analysis of the foliations produces a single maximum with a dispersed cluster (Fig. 4). The average plane is 090-80 deg. Strike varies from 052 deg to 126 deg and dip varies from 63 deg to 90 deg. This foliation is approximately parallel to the interpreted (Kage, 1981) axial plane and so is probably axial planar.

Dislocation of lithologic units between lines 80+00E and 85+00E in the northwest part of the property indicates the presence of normal faulting that may be the result of a stress regime unrelated to the one that produced the major fold.

7.0 CONCLUSIONS AND RECOMMENDATIONS

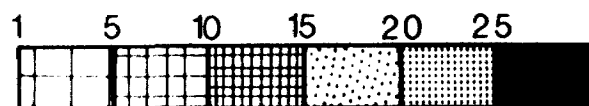
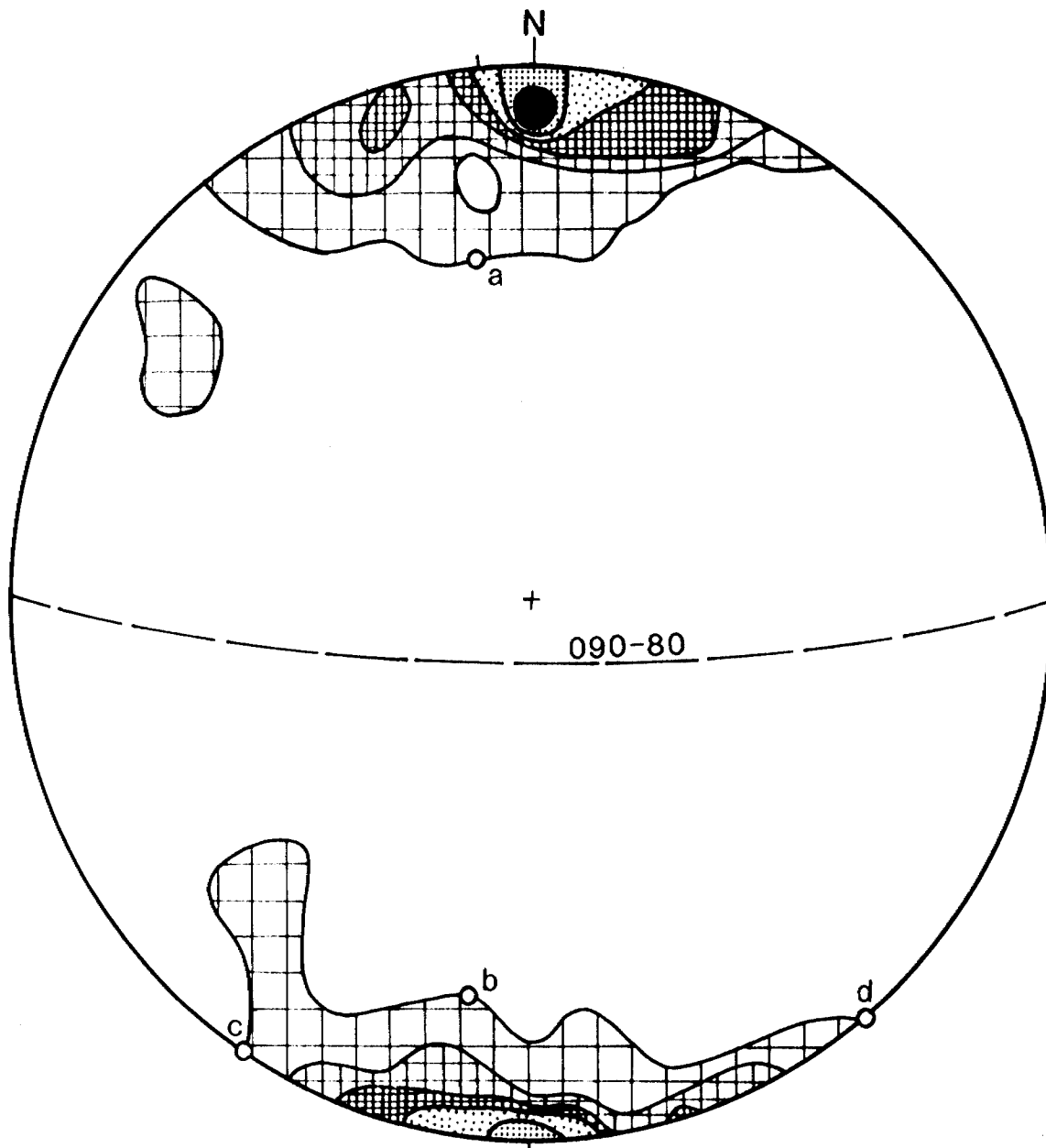
Within the limits of the property the mafic-ultramafic sill defines a large steeply plunging antiform or synform. Within the core of this fold the gabbros have been strongly altered and show a distinct zonation, the form of which reflects the folded nature of the rocks plus the effects of axial planar foliation and related shearing.

Three areas of gold mineralization previously located by prospecting and trenching all lie within a zone of weak to strong iron carbonate (ankerite) alteration. Resampling of the trenches shows the presence of anomalous gold mineralization where pyritization and silicification are also present. There appears to be excellent potential for economic gold mineralization within this alteration envelope.

It is recommended that additional surface work, including prospecting, stripping and trenching, be done to further define the relationship between gold mineralization, the iron carbonate alteration zone and structure.

Alan Aubert

CONTOURED STEREOGRAM



% Points per 1% Area
(49 Points)

Single maximum with dispersed cluster.
Average plane is 090-80.
Strike varies from 052° to 124° (c,d);
Dip varies from 63° to 90° (a)

Figure 4

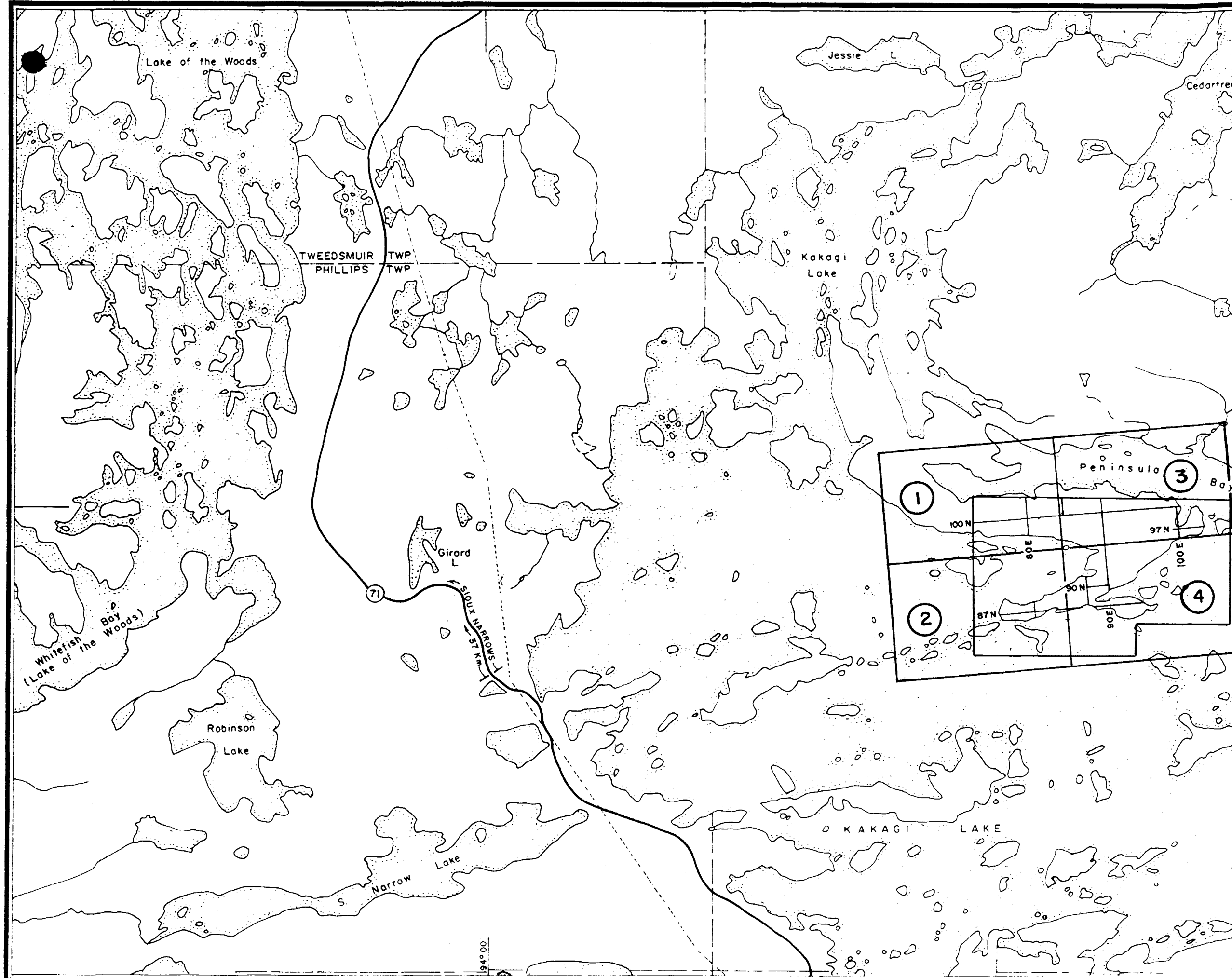
8.0 REFERENCE

Blackburn, C (1981) Kenora-Fort Frances, Map 2443, Geological Compilation Series; Ontario Geological Survey.

Dawson, J.M. (1983) Geological and Geochemical Report on the Peninsula Property, Kakagi Lake Area, Kenora Mining Division, Ontario.

Davies, J.C. and Morin, J.A. (1976) Geology of the Cedartree Lake Area, District of Kenora; Ontario Division Mines, GR 135, 52 p. Accompanied by Map 2319.

Kaye, L. (1981) Kakagi Lake; Ontario Geological Survey, Map 2447, Precambrian Geology Series.



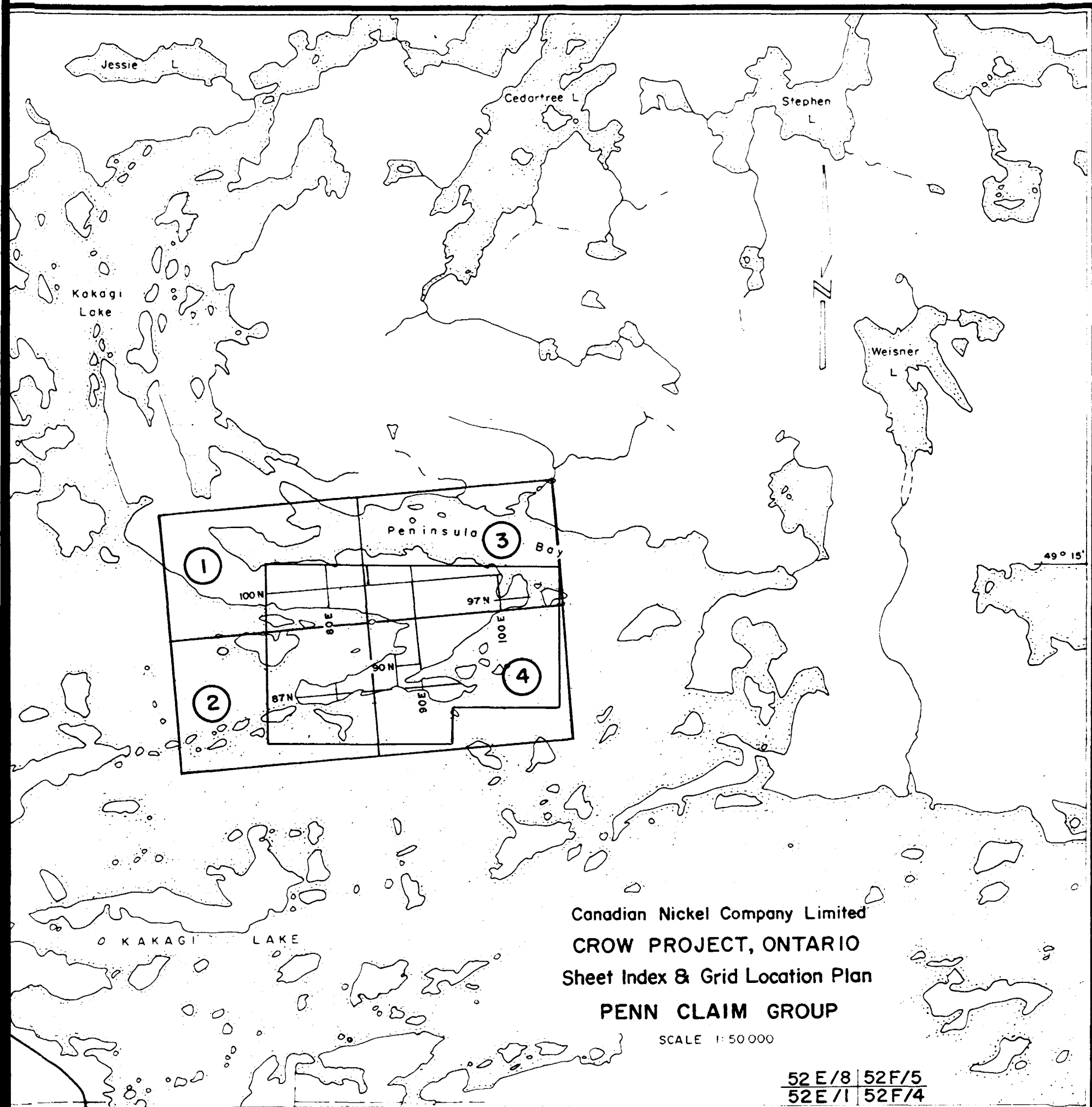


FIGURE 3

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) Geological
Township or Area Area of Heronry Lake (G-2621)
Claim Holder(s) Canadian Nickel Company Limited
Copper Cliff, Ontario. POM 1N0
Survey Company Canadian Nickel Company Limited
Author of Report A. Aubut c/o Canadian Nickel Company
Address of Author Limited, Copper Cliff, Ontario. POM 1N0
Covering Dates of Survey August 15- September 30, 1984
(linecutting to office)
Total Miles of Line Cut 30.4 KM

MINING CLAIMS TRAVERSED
List numerically

(prefix)

(number)

See attached list

If space insufficient, attach list

SPECIAL PROVISIONS
CREDITS REQUESTEDDAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical

-Electromagnetic _____

-Magnetometer _____

-Radiometric _____

-Other _____

Geological 40

Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: March 5, 1985 SIGNATURE: [Signature]
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 34

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy — Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____

(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION

RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters — On time _____ Frequency _____

— Off time _____ Range _____

— Delay time _____

— Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

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 _____

General _____

Mining Claims Traversed

K 589477	K 638465
K 589478	K 638467
K 589479	K 638468
K 589480	K 638471
K 589482	K 638472
K 638449	K 696158
K 638450	K 758837
K 638455	K 758838
K 638456	K 777705
K 638457	K 777706
K 638458	K 777707
K 638459	K 777708
K 638460	K 777718
K 638461	K 777719
K 638462	K 777723
K 638463	K 777724
K 638464	K 777725

Total: 34

APPENDIX

Introduction

A total of 161 rock samples were collected for gold analysis. The samples were collected during a geological survey which was carried out over the entire 23 claim block.

The following analytical report is being submitted as technical substantiation for assessment credits on the 20 claims listed below:

K 589477
K 589478
K 589479
K 589480
K 589482
K 638449
K 638450
K 638455
K 638456
K 638457
K 638458
K 638459
K 638460
K 638461
K 638463
K 638464
K 638465
K 638467
K 638471
K 638472

To whom it may concern:

Changes for analyses for the following sample series (as per attachments).

RX 59901 - 16 incl.
59918 - 73 incl.
60099
60100
71301 - 65 incl.
71401 - 18 incl.
71464 - 67 incl.

161 samples for Au assay	=	\$ 1,127.00
161 samples for preparation	=	\$ 563.50
(crush & pulv.)		
Total		\$ 1,690.50

A.A. Wiebe
for: A.A. Wiebe
Superintendent, Assay Stations

The Mining Act

Type of Survey(s) Expenditures - Section 77 (19)		Township or Area Area of Heronry Lake (G-2621)	
Claim Holder(s) Roy A. Martin		Prospector's Licence No. E 8275	
Address 313 Main Street, Box 867, Sturgeon Falls, Ontario P0H 2G0			
Survey Company Canadian Nickel Company Limited		Date of Survey (from & to) 15 08 84 30 09 84	Total Miles of line Cut 30.4 km
Name and Address of Author (of Geo-Technical report) Alan Aubut c/o Canadian Nickel Co. Ltd., Copper Cliff, Ontario P0M 1N0			

Credits Requested per Each Claim in Columns at right

Mining Claims Traversed (List in numerical sequence)

Special Provisions		Days per Claim
For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
Geochemical		
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
Geochemical		
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
K	589477	5.6			
	589478	5.6			
	589479	5.6			
	589480	5.6			
	589482	5.6			
	638449	5.6			
	638450	5.6			
	638455	5.6			
	638456	5.6			
	638457	5.6			
	638458	5.6			
	638459	5.6			
	638460	5.6			
	638461	5.6			
	638463	5.6			
	638464	5.6			
	638465	5.6			
	638467	5.6			
	638471	5.6			
	638472	5.6			

Total number of mining claims covered by this report of work.

20

Expenditures (excludes power stripping)	
Type of Work Performed Assay Costs	
Performed on Claim(s) See Attached List	
Calculation of Expenditure Days Credits	
Total Expenditures	Total Days Credits
\$ 1690.50	÷ 15 = 112
Instructions	
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.	

For Office Use Only		
Total Days Cr. Recorded	Date Recorded	Mining Recorder
	JAN 24/85	10.M.
	Date Approved as Recorded	Branch Director

Date Jan. 21/85	Recorded Holder or Agent (Signature) <i>J. O. Williams</i>
---------------------------	---

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		
I.D. McCaskill c/o Canadian Nickel Company Limited		
Copper Cliff, Ontario POM 1N0	Date Certified Jan. 21/85	Certified by (Signature) <i>I.D. McCaskill</i>

C. EXPLORATION GEOCHEM LAB

Submitted By : *AA/ATM/JFC*
 Reported To : *AA/ATM/JFC*

Approved : *[Signature]*
 Date : 24/09/84

Property : CROW LAKE Borehole : /
 Account No. : 60545-14030

Analysed 24/09/84 by HCM Method : FIRE ASSAY - AA
 Our File : G 24/09/84.01

DETECTION LIMITS (all in PPM, except AU in PPB) : AU = 5

Sample No.	AU	
RX 59901	55	PPB
RX 59902	20	PPB
RX 59903	10	PPB
RX 59904	< 5	PPB
RX 59905	5	PPB
RX 59906	5	PPB
RX 59907	10	PPB
RX 59908	10	PPB
RX 59909	5	PPB
RX 59910	5	PPB
RX 59911	30	PPB
RX 59912	< 5	PPB
RX 59913	< 5	PPB
RX 59914	280	PPB
RX 59915	1708	PPM
RX 59916	20	PPB
RX 59918	30	PPB
RX 59919	710	PPB
RX 59920	20	PPB
RX 59921	5	PPB
RX 59922	5	PPB
RX 59923	105	PPB
RX 59924	< 5	PPB
RX 59925	10	PPB
RX 59926	20	PPB
RX 59927	5	PPB
RX 59928	5	PPB
RX 59929	< 5	PPB
RX 59930	< 5	PPB
RX 59931	25	PPB
RX 59932	115	PPB
RX 59933	10	PPB
RX 59934	5	PPB
RX 59935	5	PPB
RX 59936	15	PPB
RX 59937	5	PPB
RX 59938	95	PPB
RX 59939	185	PPB
RX 59940	10	PPB

C.C. EXPLORATION GEOCHEM LAB

Submitted By :
Reported To : AA/ATM/JFC

Approved : *Adm*
Date : 24/09/84

Property : CROW LAKE Borehole : /
Account No. : 60545-14030

Analysed 24/09/84 by HCM Method : FIRE ASSAY - AA
Our File : G 24/09/84.01

DETECTION LIMITS (all in PPM, except AU in PPB) : AU = 5

Sample No.	AU	
RX 59941	10	PPB
RX 59942	10	PPB
RX 59943	< 5	PPB
RX 59944	5	PPB
RX 60099	5	PPB
RX 60100	< 5	PPB

C. C. EXPLORATION GEOCHEM LAB

5

Submitted By :
Reported To : AA/ATM/JFC

Approved :
Date : 26/09/84

Property : CROW LAKE Borehole : /
Account No. : 60545-14030

Analysed 26/09/84 by HCM Method : FIRE ASSAY - AA
Our File : C 26/09/84.01

DETECTION LIMITS (all in PPM, except AU in PPB) : AU = 5

Sample No.	AU	
RX 59945	5	PPB
RX 59946	15	PPB
RX 59947	10	PPB
RX 59948	10	PPB
RX 59949	< 5	PPB
RX 59950	< 5	PPB
RX 59951	15	PPB
RX 59952	5	PPB
RX 59953	10	PPB
RX 59954	975	PPB
RX 59955	75	PPB
RX 59956	5	PPB
RX 59957	< 5	PPB
RX 59958	5	PPB
RX 59959	< 5	PPB
RX 59960	< 5	PPB
RX 59961	< 5	PPB
RX 59962	< 5	PPB
RX 71401	< 5	PPB
RX 71402	< 5	PPB
RX 71403	5	PPB
RX 71404	< 5	PPB
RX 71405	25	PPB
RX 71406	15	PPB

C.C. EXPLORATION GEOCHEM LABORATORY

SUBMITTED BY _____ APPROVED HM
 REPORTED TO AA/ATM/TEC DATE Oct 4/84

NOTES

FIRE ASSAY-AA
CROW LAKE
60545-14030

ALL RESULTS IN P.P.M.
UNLESS OTHERWISE STATED

--	--	--	--

PHONE 682-4441

	Sample No. - Wt.	Au (ppb)							
1	Rx 71301	170							
2	1.02	5							
3	1.03	5							
4	71304	<5							
5									
6									
7									
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39									
40									

✓

C. C. EXPLORATION GEOCHEM LAB

Submitted By :
Reported To : *AA/ATM/JFC*Approved : *H. J.*
Date : 11/10/84Property : PENN Borehole : /
Account No. : 60545-14030Analysed 11/10/84 by HCM Method : FIRE ASSAY - AA
Our File : G 11/10/84.01

DETECTION LIMITS (all in PPM, except AU in PPB) : AU = 5

Sample No.	AU	
RX 71305	20	PPB
RX 71306	< 5	PPB
RX 71307	< 5	PPB
RX 71308	< 5	PPB
RX 71309	< 5	PPB
RX 71310	410	PPB
RX 71311	20	PPB
RX 71312	5	PPB
RX 71313	20	PPB
RX 71314	< 5	PPB
RX 71315	5	PPB
RX 71316	95	PPB
RX 71317	< 5	PPB
RX 71318	< 5	PPB
RX 71319	295	PPB
RX 71320	< 5	PPB
RX 71321	5	PPB
RX 71322	< 5	PPB
RX 71323	< 5	PPB
RX 71324	15	PPB
RX 71325	20	PPB
RX 71326	60	PPB
RX 71327	200	PPB
RX 71328	10	PPB
RX 71329	< 5	PPB
RX 71330	100	PPB
RX 71331	< 5	PPB
RX 71332	370	PPB
RX 71333	45	PPB
RX 71334	5	PPB
RX 71335	< 5	PPB
RX 71336	10	PPB
RX 71337	5	PPB
RX 71338	145	PPB
RX 71339	5	PPB
RX 71340	35	PPB
RX 71341	< 5	PPB
RX 71342	5	PPB
RX 71343	< 5	PPB
RX 71344	70	PPB

✓

C. C. EXPLORATION GEOCHEM LAB

Submitted By :
Reported To : *AA / ATM / JFC*

Approved : *[Signature]*
Date : 11/10/84

Property : PENN Borehole : /
Account No. : 60545-14030

Analysed 11/10/84 by HCM Method : FIRE ASSAY - AA
Our File : G 11/10/84.01

DETECTION LIMITS (all in PPM, except AU in PPB) : AU = 5

Sample No.	AU	
RX 71345	5	PPB
RX 71346	5	PPB
RX 71347	35	PPB
RX 71348	< 5	PPB
RX 71349	10	PPB
RX 71350	10	PPB
RX 71351	< 5	PPB
RX 71352	< 5	PPB
RX 71353	< 5	PPB
RX 71354	< 5	PPB
RX 71355	< 5	PPB
RX 71356	< 5	PPB
RX 71357	< 5	PPB
RX 71358	< 5	PPB
RX 71360	< 5	PPB
RX 71361	< 5	PPB
RX 71362	< 5	PPB
RX 71363	< 5	PPB
RX 71364	< 5	PPB
RX 71365	< 5	PPB

C.C. EXPLORATION GEOCHEM LAB

Submitted By :
Reported To : AA/ATM/JFC.....Approved : *X/m*
Date : 17/10/84Property : CROW LAKE Borehole : /
Account No. : 60545-14030~~Analysed 17/10/84 by HGM Method : FIRE ASSAY AA~~
Our File : G 17/10/84.01

DETECTION LIMITS (all in PPM, except AU in PPB) : AU = 5

Sample No. AU

RX	71359	< 5	PPB
RX	71410	10	PPB
RX	71417	< 5	PPB

C. C. EXPLORATION GEOCHEM LAB

Submitted By :
Reported To : AA/ATM/HFC

Approved : *N. H.*
Date : 11/10/84

Property : PENN Borehole : /
Account No. : 60545-14030

Analysed 11/10/84 by HCM Method : FIRE ASSAY - AA
Our File : G 11/10/84.01

DETECTION LIMITS (all in PPM, except AU in PPB) : AU = 5

Sample No.	AU	
RX 59968	< 5	PPB
RX 59969	< 5	PPB
RX 59965	5	PPB
RX 59966	< 5	PPB
RX 59967	< 5	PPB
RX 59968	< 5	PPB
RX 71409	10	PPB
RX 71408	5	PPB
RX 71409	< 5	PPB
RX 71411	< 5	PPB
RX 71412	< 5	PPB
RX 71413	5	PPB
RX 71414	< 5	PPB
RX 71415	< 5	PPB
RX 71416	< 5	PPB
RX 71418	< 5	PPB

17

C . C . EXPLORATION GEOCHEM LAB

Submitted By : _____ Approved : *82*
Reported To : *AA/ATM/JFC* Date : 22/10/84

Property : CROW LAKE Borehole : /
Account No. : 60545-14030

Analysed 22/10/84 by HCM Method : FIRE ASSAY - AA
Our File : C 22/10/84.01

DETECTION LIMITS (all in PPM, except AU in PPB) : AU = 5

Sample No. AU

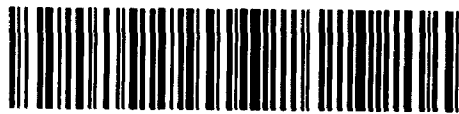
RX	71464	425	PPB
RX	71465	245	PPB
RX	71466	340	PPB
RX	71467	15	PPB



Ministry of
Natural
Resources

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

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W8501-4

900

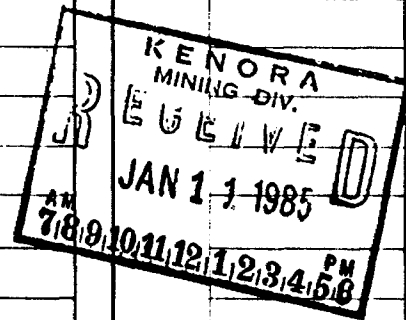
Type of Survey(s) Geological		Township or Area Area of Dogpaw Lake- Heronry L.	
Claim Holder(s) Canadian Nickel Company Limited		Prospector's Licence No. A 17527	
Address Copper Cliff, Ontario POM 1N0			
Survey Company Canadian Nickel Company Limited		Date of Survey (from & to) 15 08 84 30 09 84 Day Mo. Yr. Day Mo. Yr.	
		Total Miles of line Cut 12.4 km	
Name and Address of Author (of Geo-Technical report) Alan Aubut, c/o Canadian Nickel Company Limited, Copper Cliff, Ont. POM 1N0			

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	For each additional survey: using the same grid: Enter 20 days (for each)	
	Geological	40
	Geochemical	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
K	758837				
	758838				
	777705				
	777706				
	777707				
	777708				
	777718				
	777719				
	777723				
	777724				
	777725				



Expenditures (excludes power stripping)

Type of Work Performed	
Performed on Claim(s)	
Calculation of Expenditure Days Credits	
Total Expenditures \$	Total Days Credits 15 =
Instructions Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.	

758 822

Total number of mining claims covered by this report of work.

11

Date Jan. 8, 1985	Recorded Holder or Agent (Signature) <i>[Signature]</i>
-----------------------------	--

For Office Use Only	
Total Days Cr. Recorded 440	Date Approved as Recorded Jan. 11/85
Mining Recorder <i>[Signature]</i>	
Branch Director <i>[Signature]</i>	

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 I.D. McCaskill, c/o Canadian Nickel Company Limited		
Copper Cliff, Ontario POM 1N0	Date Certified Jan. 8/85	Certified by (Signature) <i>[Signature]</i>



Ministry of
Natural
Resources

Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

W8501.3

FWM

2-7868

The Mining Act

- Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

#3-85 *max 131*

Type of Survey(s) Geological		Township or Area Area of Heronry Lake G-2621	
Claim Holder(s) Roy A. Martin		Prospector's Licence No. E 8275	
Address 313 Main Street, Box 867, Sturgeon Falls, Ontario POH 2G0			
Survey Company Canadian Nickel Company Limited		Date of Survey (from & to) 15 08 84 30 09 84 Day Mo. Yr. Day Mo. Yr.	
		Total Miles of line Cut 30.4 km	
Name and Address of Author (of Geo Technical report) Alan Aubut, c/o Canadian Nickel Company Limited, Copper Cliff, Ont. POM 1N0			

Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other	
	Geological	40
	Geochemical	

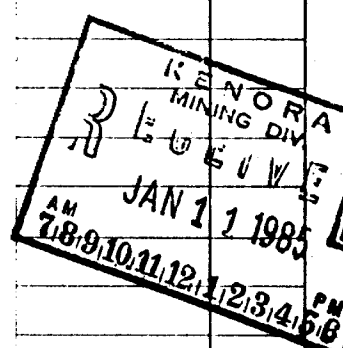
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	

Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
K	589477	29			
	589478	29			
	589479	29			
	589480	29			
	589482	29			
	638449				
	638450				
	638455	29			
	638456				
	638457				
	638458	29			
	638459	29			
	638460				
	638461				
	638462				
	638463				
	638464				
	638465				
	638467				
	638468				
	638471				
	638472				
	696158				

Reduced to maximum



Expenditures (excludes power stripping)

Type of Work Performed

Performed on Claim(s)

Calculation of Expenditure Days Credits

Total Expenditures	Total Days Credits
\$	
÷ 15	=

Instructions

Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

589477

Total number of mining claims covered by this report of work. **23**

For Office Use Only	
Total Days Cr. Recorded 732	Date Recorded Jan. 11/85
Date Approved as Recorded See Revised statement	Mining Records McLemay / Acting
Date Jan. 8, 1985	Recorded Holder or Agent (Signature) J.D. McCaskill

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
I.D. McCaskill, c/o Canadian Nickel Company Limited

Copper Cliff, Ontario POM 1N0

Date Certified
Jan. 8/85

Certified by (Signature)
J.D. McCaskill



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

FWM

2-7868

The Mining Act

- Instructions: - Please type or print.
- If number of mining claims traversed exceeds space on this form, attach a list.
Note: - Only days credits calculated in the "Expenditures" section may be entered in the "Expend. Days Cr." columns.
- Do not use shaded areas below.

Mar 26th #17-85

W8501-17

Type of Survey(s) Expenditures - Section 77 (19)	Township or Area Area of Heronry Lake (G-2621)
Claim Holder(s) Roy A. Martin	Prospector's Licence No. E 8275
Address 313 Main Street, Box 867, Sturgeon Falls, Ontario POM 2G0	
Survey Company Canadian Nickel Company Limited	Date of Survey (from & to) 15th 08th 84 30th 09th 84
Total Miles of line Cut 30.4 km	
Name and Address of Author (of Geo Technical report) Alan Aubut c/o Canadian Nickel Co. Ltd., Copper Cliff, Ontario POM 1N0	

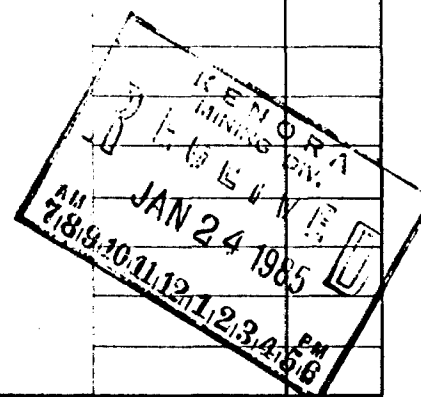
Credits Requested per Each Claim in Columns at right

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
For each additional survey: using the same grid: Enter 20 days (for each)	Geochemical	
Man Days	Geophysical	Days per Claim
Complete reverse side and enter total(s) here	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits		Days per Claim
Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim			Mining Claim		
Prefix	Number	Expend. Days Cr.	Prefix	Number	Expend. Days Cr.
K	589477	5.6			
	589478	5.6			
	589479	5.6			
	589480	5.6			
	589482	5.6			
	638449	5.6			
	638450	5.6			
	638455	5.6			
	638456	5.6			
	638457	5.6			
	638458	5.6			
	638459	5.6			
	638460	5.6			
	638461	5.6			
	638463	5.6			
	638464	5.6			
	638465	5.6			
	638467	5.6			
	638471	5.6			
	638472	5.6			

RECEIVED
FEB 06 1985
MINING LANDS SECTION



Expenditures (excludes power stripping)

Type of Work Performed Assay Costs	
Performed on Claim(s) See Attached List	
Calculation of Expenditure Days Credits	
Total Expenditures \$ 1690.50	Total Days Credits 112
Instructions Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.	

589477

Total number of mining claims covered by this report of work.

20

Date Jan. 21/85	Recorded Holder or Agent (Signature) <i>[Signature]</i>
---------------------------	--

For Office Use Only	
Total Days Cr. Days Recorded 112	Date Approved as Recorded Jan 24/85
Branch Director <i>[Signature]</i>	

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 I.D. McCaskill c/o Canadian Nickel Company Limited		
Copper Cliff, Ontario POM 1N0	Date Certified Jan. 21/85	Certified by (Signature) <i>[Signature]</i>

WORK PERFORMED ON CLAIMS

K 589477
K 589478
K 589479
K 589480
K 589482
K 638449
K 638450
K 638455
K 638456
K 638457
K 638458
K 638459
K 638460
K 638461
K 638463
K 638464
K 638465
K 638467
K 638471
K 638472

Total Claims = 20

Mining Lands Section

File No 2.7868

Control Sheet

TYPE OF SURVEY

☐ GEOPHYSICAL

☒ GEOLOGICAL

☐ GEOCHEMICAL

☒ EXPENDITURE

MINING LANDS COMMENTS:

LD.

Lgd.

Dennis K.

Signature of Assessor

Mar. 28/85

Date

1985 05 08

Your File: 3,4-85
Our File: 2.7868

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

RE: Notice of Intent dated April 17, 1985
Geological Survey and Data for Assaying
on Mining Claims P 758837, et al, in the
Areas of Dogpaw Lake and Heronry 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,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-4888

D. Kinvig:mc

cc: Roy A. Martin
Sturgeon Falls, Ontario
cc: I.D. McCaskill
Copper Cliff, Ontario

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

Encl.



File 2,7868

Date 1985 04 17	Mining Recorder's Report of Work No. 3,4-85
--------------------	--

ROY A. MARTIN/CANADIAN NICKEL COMPANY LIMITED

DOGPAW LAKE & HERONRY LAKE AREAS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	K 758837-38
Magnetometer _____ days	777705 to 08 inclusive
Radiometric _____ days	777718-19
Induced polarization _____ days	777723 to 25 inclusive
Other _____ days	589477 to 80 inclusive
	589482
	638449-50
	638455 to 65 inclusive
	638467-68
	638471-72
	696158
Section 77 (19) See "Mining Claims Assessed" column	
Geological _____ 32 days	
Geochemical _____ days	
Man days ☐	Airborne ☐
Special provision ☒	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

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; Geological — 40; Geochemical — 40; Section 77 (19) — 60;



Ontario

Ministry of
Natural
Resources

Technical Assessment Work Credits

File

2.7868

Date

1985 04 17

Mining Recorder's Report of
Work No.

17-85

Recorded Holder

ROY A MARTIN

Township or Area

HERONRY LAKE AREA

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic _____ days	\$1690.50 SPENT ON ASSAYING SAMPLES TAKEN FROM MINING CLAIMS:
Magnetometer _____ days	758837-38
Radiometric _____ days	777706-07
Induced polarization _____ days	777718
Other _____ days	777725
Section 77 (19) See "Mining Claims Assessed" column	589477 to 80 inclusive
Geological _____ days	589482
Geochemical _____ days	638449-50
Man days ☐ Airborne ☐	638455 to 61 inclusive
Special provision ☐ Ground ☐	638463 to 65 inclusive
☐ Credits have been reduced because of partial coverage of claims.	638467-68
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	638471-72
	696158
	112 DAYS CREDIT ALLOWED WHICH MAY GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT.

Special credits under section 77 (16) for the following mining claims

--

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; Geological — 40; Geochemical — 40; Section 77 (19)—60:



Ministry of
Natural
Resources

May 2/85

1985 04 17

Your File: 17-85
Our File: 2.7868

Mining Recorder
Ministry of Natural Resources
808 Robertson Street
Box 5080
Kenora, Ontario
P9N 3X9

Dear Sir:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact
Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

D.K.D. Kinvig:mc

Encls.

cc: Roy A. Martin
313 Main Street
Box 867
Sturgeon Falls, Ontario
POH 2G0

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

cc: I.D. McCaskill
c/o Canadian Nickel Company Limited
Copper Cliff, Ontario
POM 1N0



Ministry of
Natural
Resources

Notice of Intent for Technical Reports

1985 04 17

2.7868/3-85/4-85/17-85

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Canadian Nickel Company Limited

Copper Cliff • Ontario P0M 1N0

March 4, 1985

REGISTERED MAIL

Mr. F.W. Matthews
Supervisor, Projects Section
Ministry of Natural Resources
Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1X1

Dear Mr. Matthews:

Enclosed is a geological survey report in duplicate including technical substantiation for assay expenditures which were submitted for assessment credits on the following claims located in Area of Dogpaw Lake (G 2613) and Area of Heronry Lake (G 2621) Kenora mining Division.

Geological Survey

K 589477- 80 incl.	K 696158 ✓
K 589482 ✓	K 758837- 38 ✓
K 638449- 50 ✓	K 777705- 08 incl.
K 638455- 65 incl.	K 777718- 19 ✓
K 638467- 68 ✓	K 777723- 25 incl.
K 638471- 72 ✓	

RECEIVED

MAR - 8 1985

Expenditures (77-19)

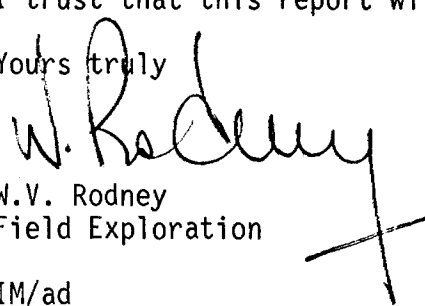
K 589477- 80 incl.	K 638463- 65 incl.
K 589482	K 638467
K 638449- 50	K 638471- 72
K 638455- 61 incl.	

MINING LANDS SECTION

The report of work covering the geological survey was submitted to Mrs. M.E. Lemay in Kenora and subsequently recorded on January 11, 1985. The work report covering the assay expenditures was recorded on January 24, 1985.

I trust that this report will be considered satisfactory by your department.

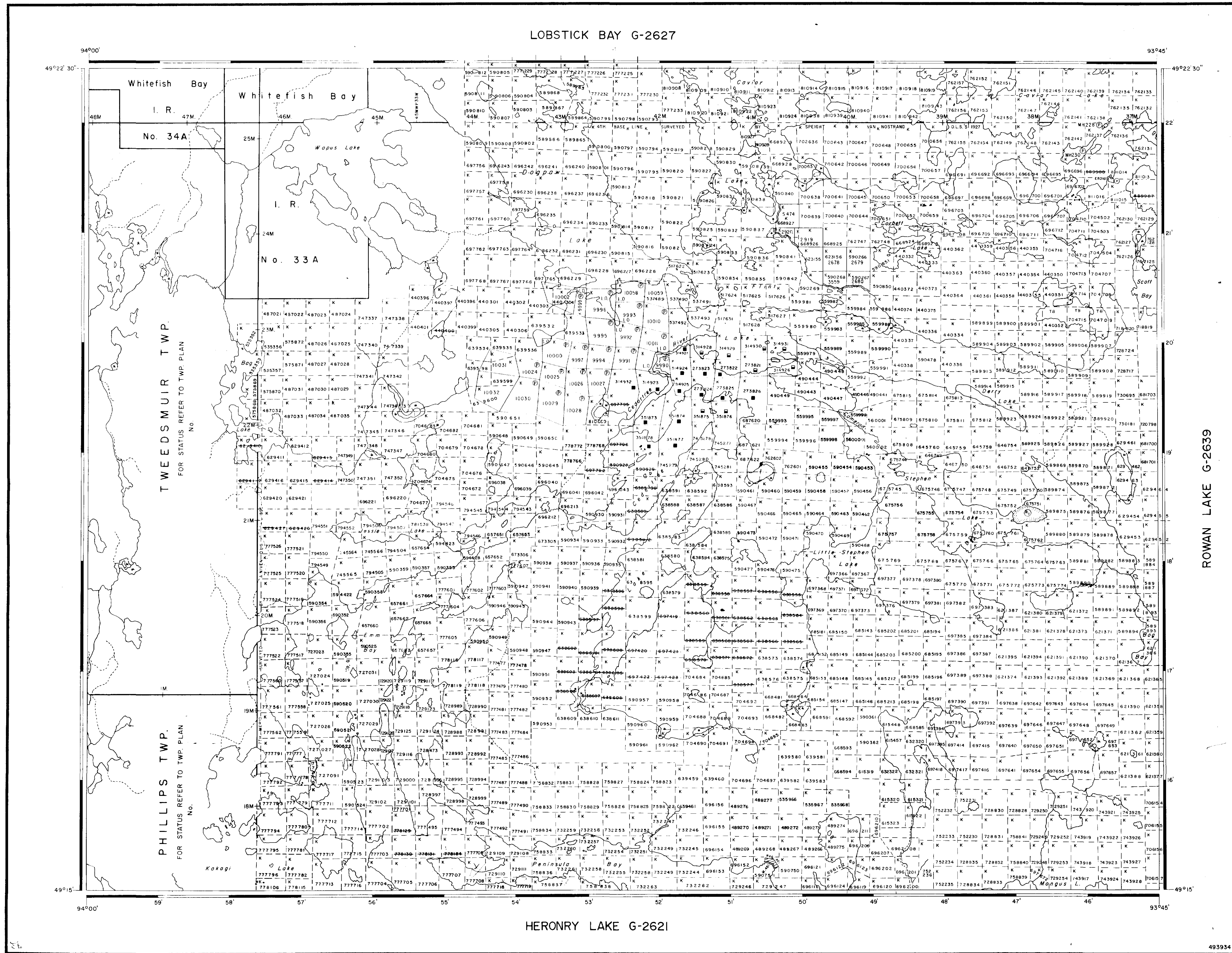
Yours truly


W.V. Rodney
Field Exploration

IM/ad

Exploration subsidiary of

INCO LIMITED



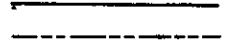
LEGEND

HIGHWAY AND ROUTE No. 

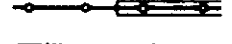
OTHER ROADS 

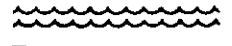
TRAILS 

SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC. 

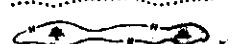
LOTS, MINING CLAIMS, PARCELS, ETC. 

UNSURVEYED LINES:
LOT LINES 

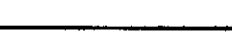
PARCEL BOUNDARY 

MINING CLAIMS ETC. 

RAILWAY AND RIGHT OF WAY 

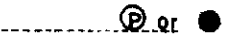
UTILITY LINES 

NON-PERENNIAL STREAM 

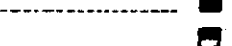
FLOODING OR FLOODING RIGHTS 

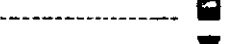
SUBDIVISION OR COMPOSITE PLAN 

RESERVATIONS 

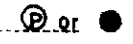
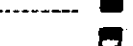
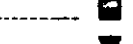
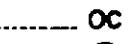
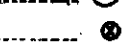
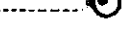
ORIGINAL SHORELINE 

MARSH OR MUSKEG 

MINES 

TRAVERSE MONUMENT 

DISPOSITION OF CROWN LANDS

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

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8, 1915, VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 360, SEC. 43, SUBSEC. 1.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

Description	Order No.	Date	Disposition	File
M.R.O. - MINING RIGHTS ONLY				
S.R.O. - SURFACE RIGHTS ONLY				
M.+S. - MINING AND SURFACE RIGHTS				

Scale: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 2000 (1 KM) (2 KM)

AREA

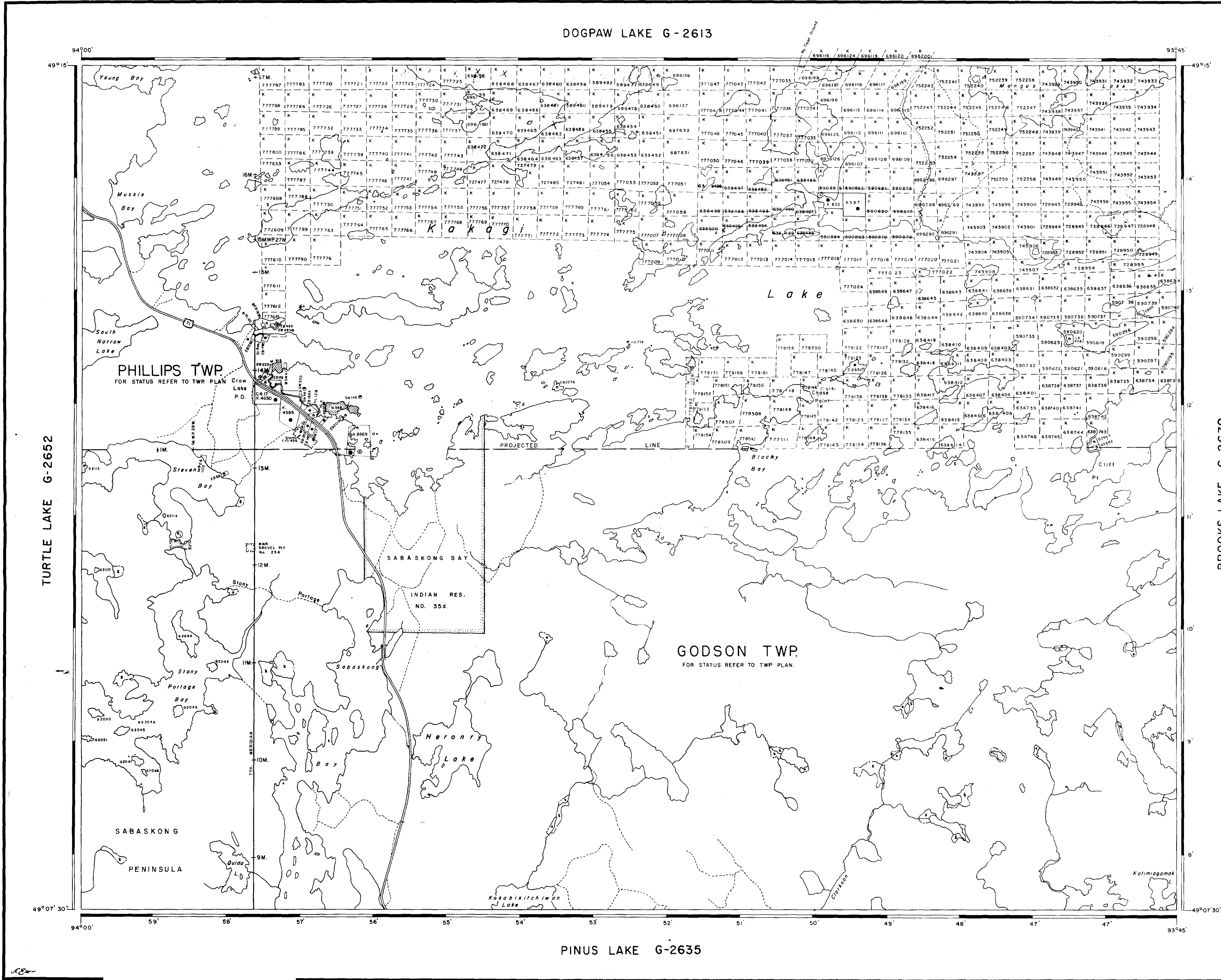
DOGPAW LAKE

M.N.R. ADMINISTRATIVE DISTRICT
KENORA
MINING DIVISION
KENORA
LAND TITLES / REGISTRY DIVISION
KENORA

Ministry of Natural Resources
Land Management Branch

Date JANUARY, 1984 Number
G-2613





LEGEND

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

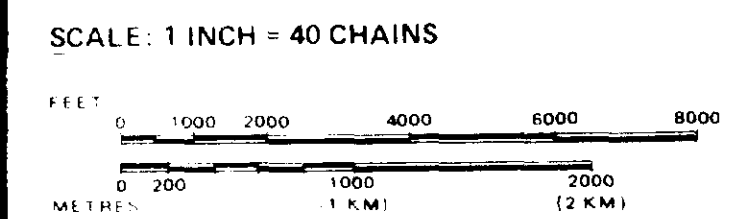
DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LEASE, SURFACE & MINING RIGHTS	○
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	○
LICENCE OF OCCUPATION	○
ORDER-IN-COUNCIL	○
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

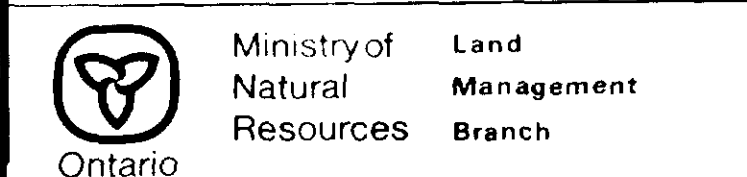
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION				
M.R.O. - MINING RIGHTS ONLY				
S.R.O. - SURFACE RIGHTS ONLY				
M.+S. - MINING AND SURFACE RIGHTS				
Description	Order No.	Date	Disposition	File
W. 65/76	185521	19/11/76	S.R.O.	



AREA
HERONRY LAKE
M.N.R. ADMINISTRATIVE DISTRICT
KENORA
MINING DIVISION
KENORA
LAND TITLES / REGISTRY DIVISION
KENORA

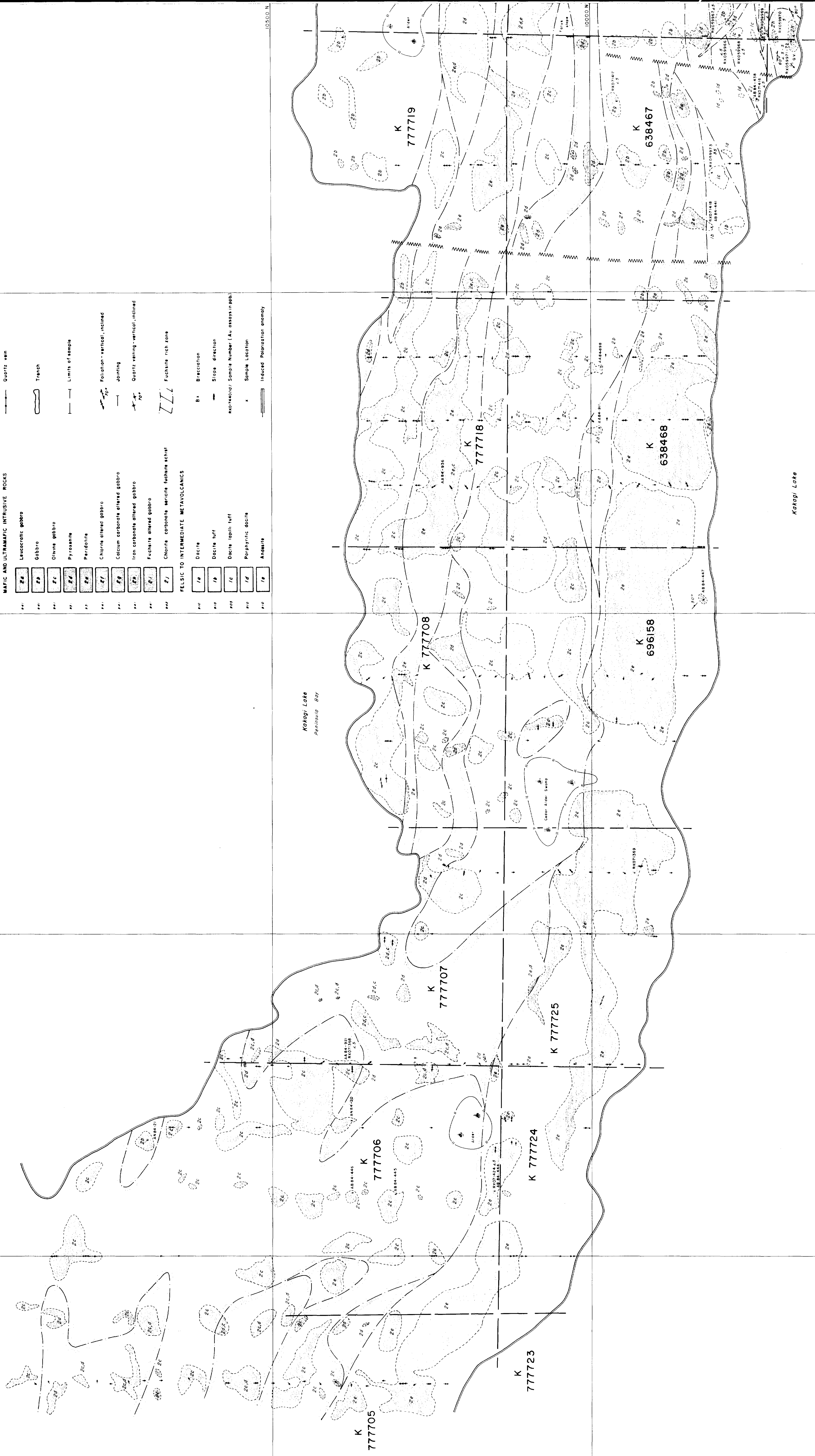


Date MARCH, 1984
Number
G-2621



LEGEND

FELSIC TO INTERMEDIATE INTRUSIVE ROCKS		SYMBOLS
22	Quartz diorite	— Gradational contact
23	Plagioclase porphyry	○ Outcrop
24	Felsite	— Quartz vein
25	Granite	— Trench
MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS		— Limits of sample
26	Laue-diorite gabbro	— Foliation - vertical, inclined
27	Gabbro	— Jointing
28	Olivine gabbro	— Quartz veining - vertical, inclined
29	Pyroxenite	— Fuchsite rich zone
30	Peridotite	— Brecciation
31	Chlorite altered gabbro	— Slope direction
32	Calcium carbonate altered gabbro	— Sample Number (Au assays in ppm)
33	Iron carbonate altered gabbro	— Sample Location
34	Pachite altered gabbro	— Induced Polarization anomaly
35	Chlorite carbonate sericite fuchsite schist	
FELSIC TO INTERMEDIATE METAVOLCANICS		
36	Dacite	
37	Dacite tuff	
38	Dacite lapilli tuff	
39	Porphyritic dacite	
40	Andesite	



Canadian Nickel Company Limited

Geology Survey

Project: CRON PROJECT

Supervisor: A. Aubert

Instrument: Survey done September 1984

Completed by: D. W. Walsh

Date drawn: Nov. 1984

Scale: 1:2500

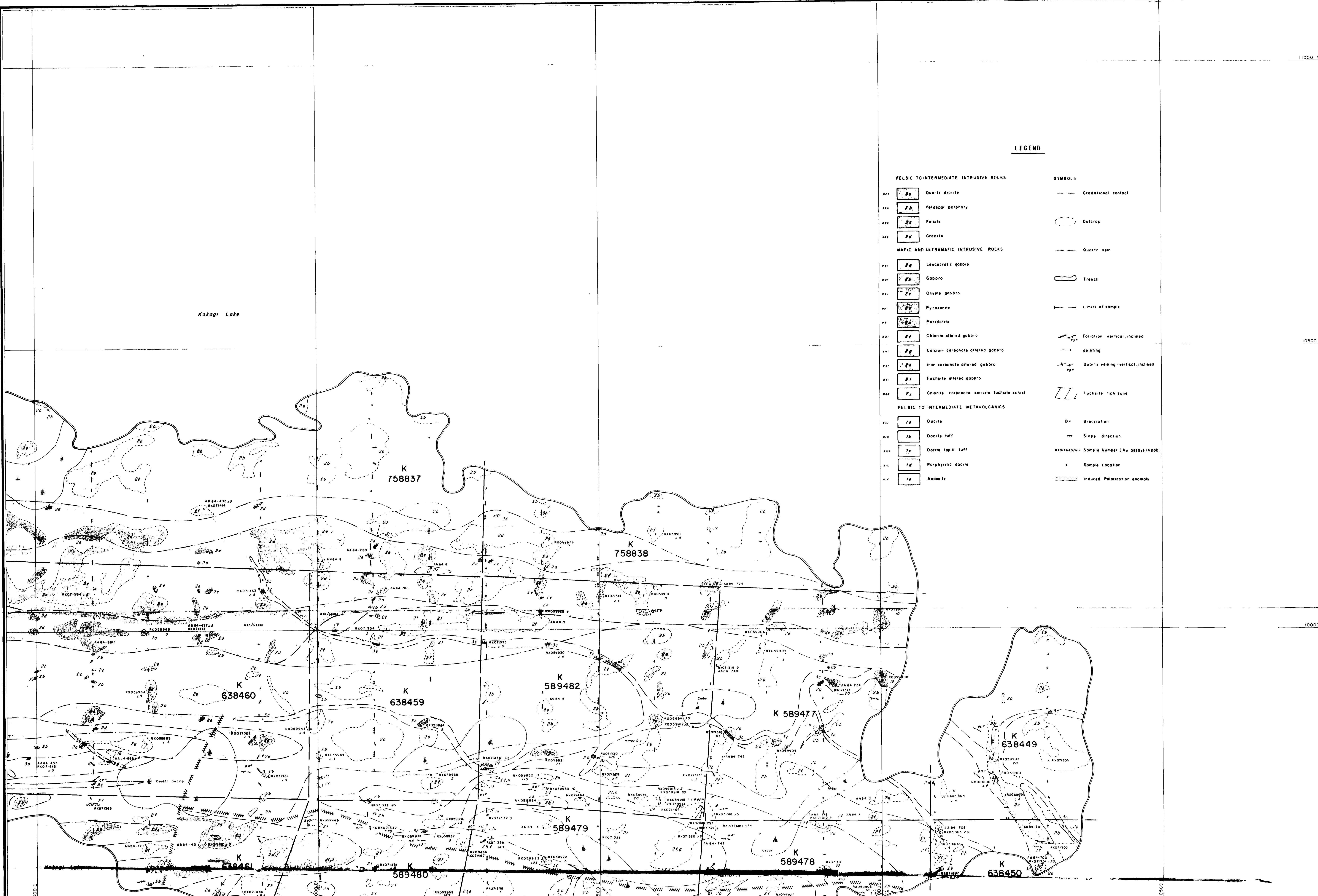
File: NTS 92 F 4-5

Figure 5

1	2	3	4
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220

220



LEGEND

FELSIC TO INTERMEDIATE INTRUSIVE ROCKS

- 3a Quartz diorite
- 3b Feldspar porphyry
- 3c Felsite
- 3d Granite

MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS

- 2a Leucocratic gabbro
- 2b Gabbro
- 2c Olivine gabbro
- 2d Pyroxenite
- 2e Peridotite
- 2f Chlorite altered gabbro
- 2g Calcum carbonate altered gabbro
- 2h Iron carbonate altered gabbro
- 2i Fuchsite altered gabbro
- 2j Chlorite carbonate baricite fuchsite schist

FELSIC TO INTERMEDIATE METAVOLCANICS

- 1a Dacite
- 1b Dacite tuff
- 1c Dacite lapilli tuff
- 1d Porphyritic dacite
- 1e Andesite

SYMBOLS

- Gradational contact
- Outcrop
- Quartz vein
- Trench
- Limits of sample
- Foliation vertical, inclined
- Jointing
- Quartz veining vertical, inclined
- Fuchsite rich zone
- Bracciation
- Slope direction
- Sample Number (Au assays in ppm)
- Sample Location
- Induced Polarization anomaly



6278558878 2 7888 0004M LAK

Canadian Nickel Company Limited		Company Code: 000000	Figure: 3	5
GEOLOGY SURVEY				
Project: CROW PROJECT		Area: PENN CLAIM GROUP		
Supervised: A. Aubut	Instrument:	Survey Date: September 1984		
Compiled By:	Drawn By: D. W. Walsh	Date Drawn: Nov 1984		
Scale: 1:2500	File:	NTS: 52 F 4-5		



LEGEND

- | | | | |
|--|---|------------------|-------------------------------------|
| FELSIC TO INTERMEDIATE INTRUSIVE ROCKS | | SYMBOLS | |
| 2a | Quartz diorite | — | Gradational contact |
| 2b | Feldspar porphyry | ○ | Outcrop |
| 2c | Felsite | — | Quartz vein |
| 2d | Granite | — | Trench |
| MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS | | Limits of sample | |
| 2e | Leucocratic gabbro | — | Foliation - vertical, inclined |
| 2f | Gabbro | — | Jointing |
| 2g | Olivine gabbro | — | Quartz veining - vertical, inclined |
| 2h | Pyroxenite | — | Fuchsite rich zone |
| 2i | Peridotite | — | Bx Brecciation |
| 2j | Chlorite altered gabbro | — | Slope direction |
| 2k | Calcium carbonate altered gabbro | — | Sample Number (Au assays in ppb) |
| 2l | Iron carbonate altered gabbro | — | Sample Location |
| 2m | Fuchsite altered gabbro | — | Induced Polarization anomaly |
| 2n | Chlorite carbonate sericite fuchsite schist | | |
| FELSIC TO INTERMEDIATE METAVOLCANICS | | | |
| 1a | Dacite | | |
| 1b | Dacite tuff | | |
| 1c | Dacite lapilli tuff | | |
| 1d | Porphyritic dacite | | |
| 1e | Andesite | | |



Canadian Nickel Company Limited		Geology Survey	
Project: LROW PROJECT		Area: PENN CLAIM GROUP	
Supervisor: A. Aubert	Instrument:	Survey date: September 1984	Drawn by: D. W. Walsh
Compiled by:	Date drawn: Nov 1984	Revised:	File:
Scale: 1:2500		N.T.S. 52 F 4-5	

27868