



42A15SW8849 2.15030 MCCART

010

Geological Report
McCart Township Property
N1/2, Lot 6, Concession 5
McCart Township
Porcupine Mining Division, Ontario

RECEIVED
MAY 20 1993
MINING LANDS BRANCH

2.15030'

RECEIVED
PORCUPINE MINING DIVISION
24th Post + 30'

Qual. 2.3899

Dale R. Pyke

April, 1993



42A15SW8849 2.15030 MCCART

010C

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Geological Report
McCort Township Property

Introduction

The property , located approximately 35 miles northeast of the City of Timmins (Figure 1) and 8 miles west of Iroquois Falls, consists of the following four claims in the north half of Lot 6, Concession 5, McCort Township:

P1131544	SW1/4	N1/2	Lot 6, Concession 5
P1131545	SE1/4	N1/2	Lot 6, Concession 5
P1131546	NE1/4	N1/2	Lot 6, Concession 5
P1131547	NW1/4	N1/2	Lot 6, Concession 5

Mr. Bruce Raine is the recorded holder of the claims.

The claims are readily accessible. An all weather road extends west from Highway 11 along the north boundary of Concession 4, from which a bush road/trail in Lot 5 extends north to the claim group.

Previous Work

The geology of McCort Township has been compiled by Satterly (1953) at a scale of 1 inch to 1/4 mile.

In 1950, Arrow Timber Co. conducted a magnetic and geological survey over the claim group. The exploration was oriented towards finding commercial asbestos within the ultramafic intrusive rocks. Seven diamond drill holes were sunk within the ultramafic rocks in the southwest part of the current property to test for asbestos fibre. The holes largely intersected serpentized dunite; only minor asbestos was encountered.

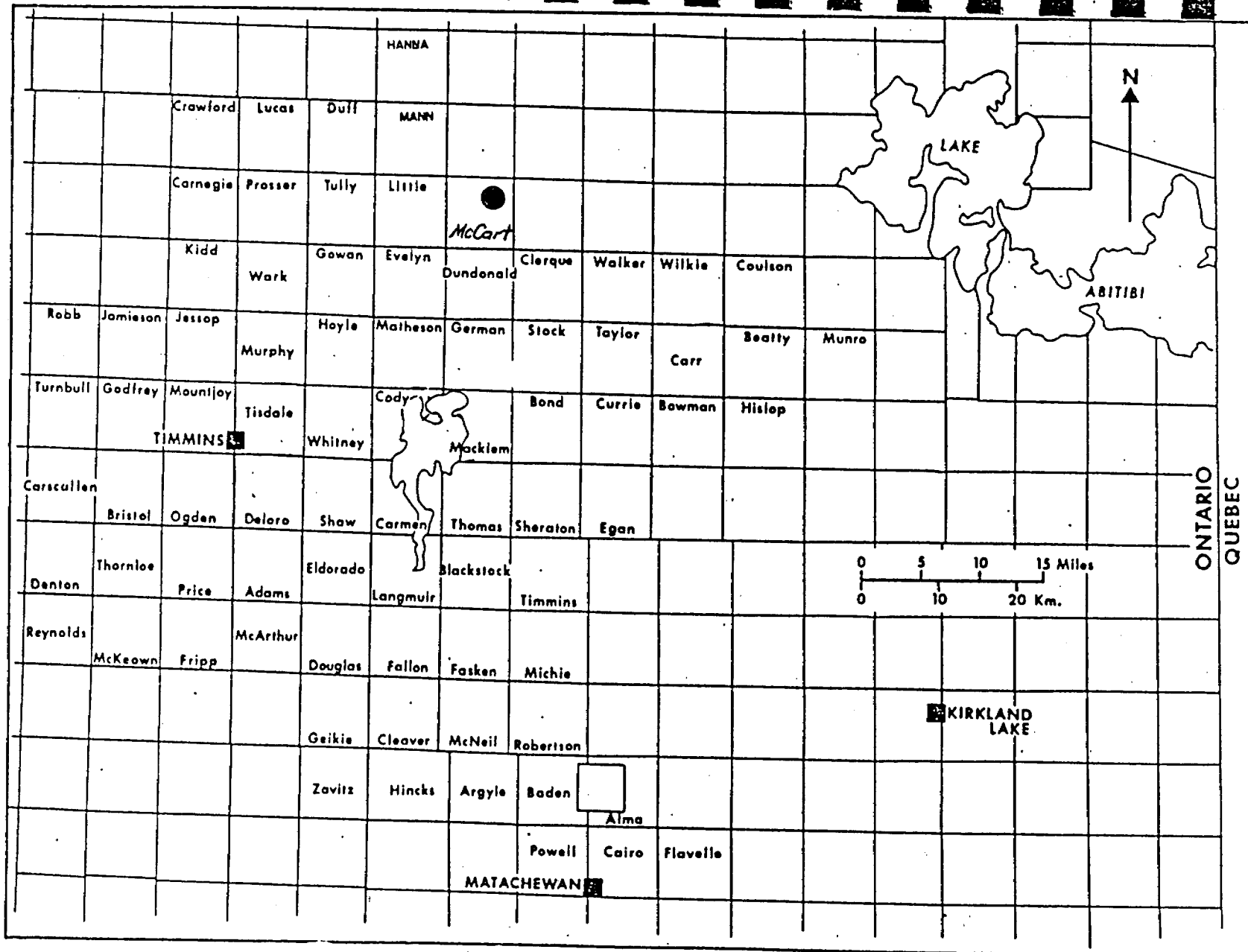
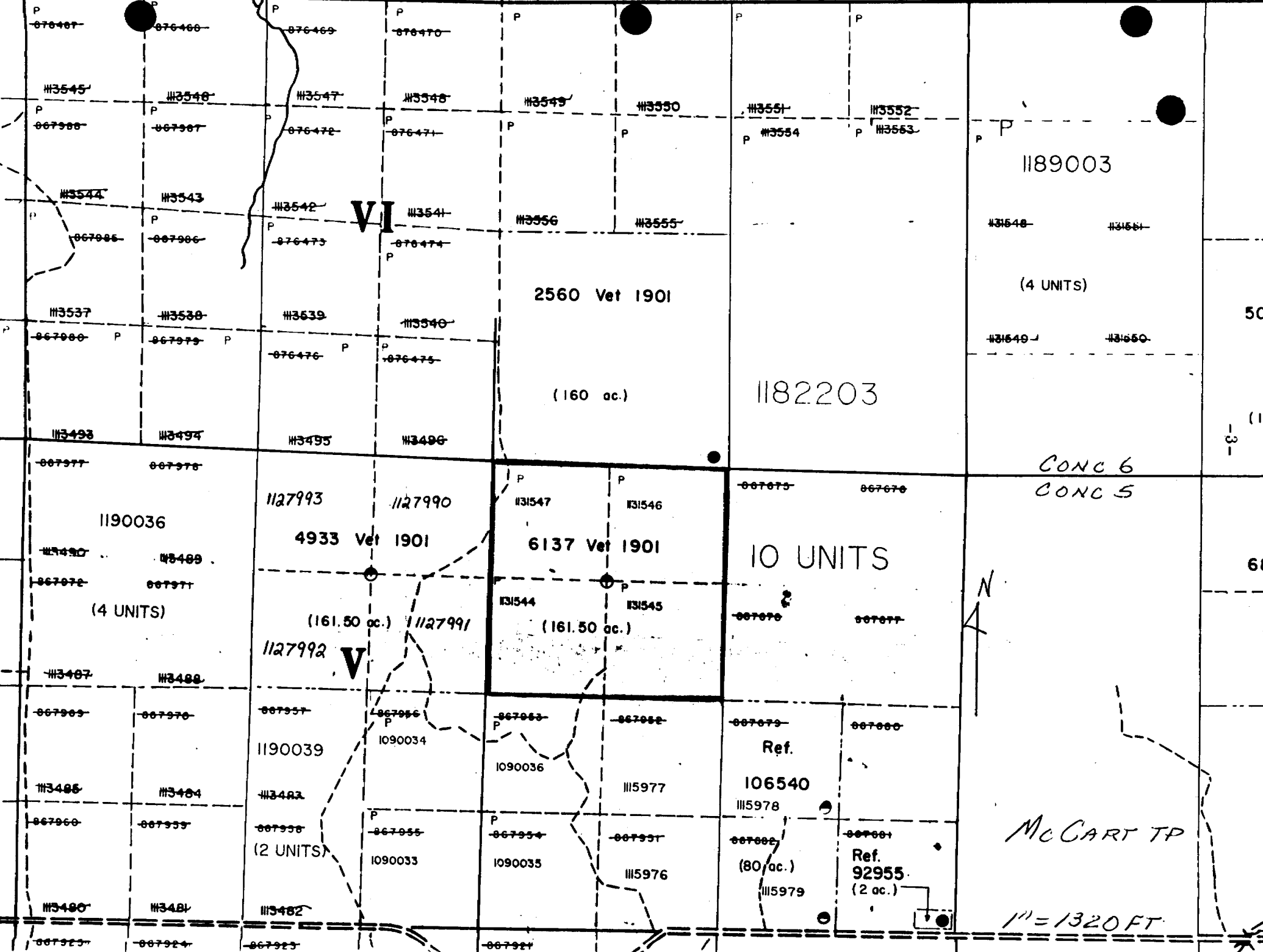


Figure 1 - Location map McCart Township Property

LOT 7

LOT 6

LOT 5



VI

V

2560 Vet 1901

(160 ac.)

1127993 1127990

4933 Vet 1901

(161.50 ac.)

1127992

1127991

6137 Vet 1901

(161.50 ac.)

10 UNITS

Ref. 106540
115978

(80 ac.)
115979

Ref. 92955
(2 ac.)

1189003

(4 UNITS)

1182203

CONC 6
CONC 5

McCART TP

1" = 1320 FT.

502

(16

68

(

In 1988, a combined airborne electromagnetic and magnetic survey was flown by Geotrex Limited for the Ontario Geological Survey (OGS, 1988), which covered much of the area immediately north and east of Timmins, inclusive of McCart Township.

Present Survey

The present survey was conducted by D. R. Pyke over a period of five days in October 1991. North-south picket lines at 100 meter intervals and an airphoto blow-up at an approximate scale of 1:5000 provided mapping control. Because of the extensive outcrop on the property a great deal more time could be spent documenting many of the primary volcanic features.

Regional Geology

The property is located near the southeast end of a large gabbroic-ultramafic complex that extends approximately 15 miles to the northwest (Pyke et al, 1973). The complex appears to be largely sill-like in nature, having been emplaced within relatively flat lying komatiitic and tholeiitic lavas. To date, exploration work within the region has largely been confined to the northwest portion of the complex where some interesting, yet sub-economic nickel-copper values and anomalous platinum and palladium values are reported from diamond drilling (Shklanka, 1969). Here, at the Zevely Prospect in Mann Township, nickel-copper assays are reported from a 72 foot wide zone occurring at an intrusive peridotite-volcanic contact. Locally, up to five foot sections contained 15% sulphides (pyrrhotite and chalcopyrite) that assayed as high as 6.6% copper and 5.5% nickel with locally anomalous platinum values (0.05 ounces/ ton). The general area of the current property in McCart Township is considered to have good potential for Ni-Cu-Pt-Pd

mineralization, even though the few samples assayed in the course of the present survey have not been encouraging.

Property Geology

The map as presented is at best preliminary, as both the quality and extent of bedrock exposure is unique for the north Timmins area and certainly warrants a more detailed examination, particularly as regards the primary volcanic features.

Two main rock types dominate the property:- 1) ultramafic intrusive rocks consisting largely of serpentized dunite-peridotite and, 2) tholeiitic volcanics, some of which appear to have a basaltic komatiite affinity.

The ultramafic rocks occur as an envelope surrounding the volcanics, with which they are interpreted to be partially fault bounded. They appear to be largely of dunitic/peridotitic parentage, now altered to serpentine, and are commonly massive, orange brown to orange grey weathering and dark blue-black or locally medium green on fresh surfaces. Irregular fracturing and local development of asbestos fibre is common. One of the highest outcrop areas in the general region is centered on the ultramafics in the southwest corner of the claim group where local relief would be in the order of 50-60 meters or more.

The tholeiitic volcanics form a large expanse of outcrop (Photo 1) across the central portion of the claim group. The flows dip shallow to the north, 20 to 30 degrees, and generally consist of a massive base with an overlying pillowed portion, commonly capped by a pillow breccia and/or a hyaloclastitic flow top. Individual flows, or portions of flows, commonly form a steep south facing scarp and a shallow north dipping dip slope (Photo 2), imparting a step-like quality to much of the outcrop area. Flows vary in thickness from approximately 10 to 20 meters. The tholeiites are typically massive, fine to- medium grained, medium grey



Photo 1 - Typical outcrop area on the claim group



Photo 2 - Dip slope outcrop ridge in pillowed Mg-tholeiite

green weathering and dark green grey fresh. Some of the outcrops in the most southern exposures display the characteristic polygonal jointing or polysuturing structure on the weathered surface which is typically diagnostic of komatiitic flows. However, chemically (see below) the flows have a normal tholeiitic composition. In thin section the tholeiites are largely composed of approximately equal proportions of pale green actinolitic hornblende and weakly to strongly saussuritized sodic plagioclase. Minor accessories include opaque minerals, leucoxene, chlorite, epidote and traces of quartz, biotite and rarely apatite. Grain size averages 0.6-1.0 mm; one massive flow was observed to contain 10-15 percent actinolitic laths 5 to 10 mm in length.

A peculiar variolitic-type structure is common to many of the flows, occurring in both the pillowed and massive portions but generally best developed in the former. They consist of ball-like structures (Photos 3 and 4) varying from 0.5 to 30 cm and commonly averaging 2-3cm. The structures protrude from the outcrop and can be very densely packed or form isolated 'balls' or strings of 'balls'. Mineralogically, the 'balls' are more leucocratic than the surrounding matrix, with a typical color index of 35 as compared to 55 for the matrix. The 'balls' may occur randomly throughout a pillow or be preferentially concentrated at the rim or the central portion. In the massive part of a flow the 'balls' tend to occur near the top, at or near the transition to the overlying pillowed portion of the flow. In thin section the 'balls' are in sharp contact with the matrix and are seen to consist typically of actinolitic hornblende commonly forming elongate laths up to 3-4 mm, set in a matrix of plagioclase which is commonly twinned and shows only minor alteration to epidote/saussurite, etc. Traces of leucoxene, quartz and opaque minerals are also present. In contrast, the matrix consists of actinolitized pyroxene, much of which shows a skeletal habit (a sheaf-of-wheat type texture) and is set within a matrix of dull brown saussuritized plagioclase, some of which in the



Photo 3 - Ball-like structure in pillowed Mg-tholeiite



Photo 4 - Ball-like structure in pillowed Mg-tholeiite

pillowed portions is extremely fine, non-pleochroic, and appears in part to represent devitrified glass. As a preliminary interpretation, it would appear that the 'balls' formed first, representing initial crystallization centres within the magma, perhaps in part before extrusion. On extrusion, rapid crystallization of the magma (matrix) led to the formation of skeletal pyroxenes locally set in a somewhat glassy matrix.

Minor orange brown weathering, polysutured ultramafic komatiite, now altered largely to tremolite, outcrops in the northeast part of the claim group near L12E-500N.

The volcanic rocks trend E-W, dip gently north at approximately 20 degrees and are right side up. Structurally the property is interpreted to be on the north limb of an east plunging overturned anticline, the axial trace of which trends through the claims immediately to the south. (Assessment Files). Foliation is generally weak and tends to be parallel to flow contacts. Two fracture cleavages, striking NW and NE respectively, are locally prominent, being especially strongly developed in flow top and pillow breccias. Shearing occurs at least locally along the ultramafic-volcanic contact but it is not currently known if these are major zones of dislocation. It is suspected that the ultramafics form part of a single sill-like body that is repeated by faulting, however, more detailed mapping will be necessary to confirm this or not.

Geochemistry

Six samples from the volcanic rocks were submitted to X-Ray Assay Laboratories for whole rock chemical analyses. The results, listed in Table 1, confirm the petrographic observations that there is little variation in the composition. On a Cation Plot ($Fe_2O_3+TiO_2+MnO - Al_2O_3 - MgO$; Jensen, 1976), all the samples lie within the field of magnesium tholeiite (Figure 2). Of interest is a polysutured pillow basalt (P3-91), mapped as basaltic komatiite which lies well within the field of

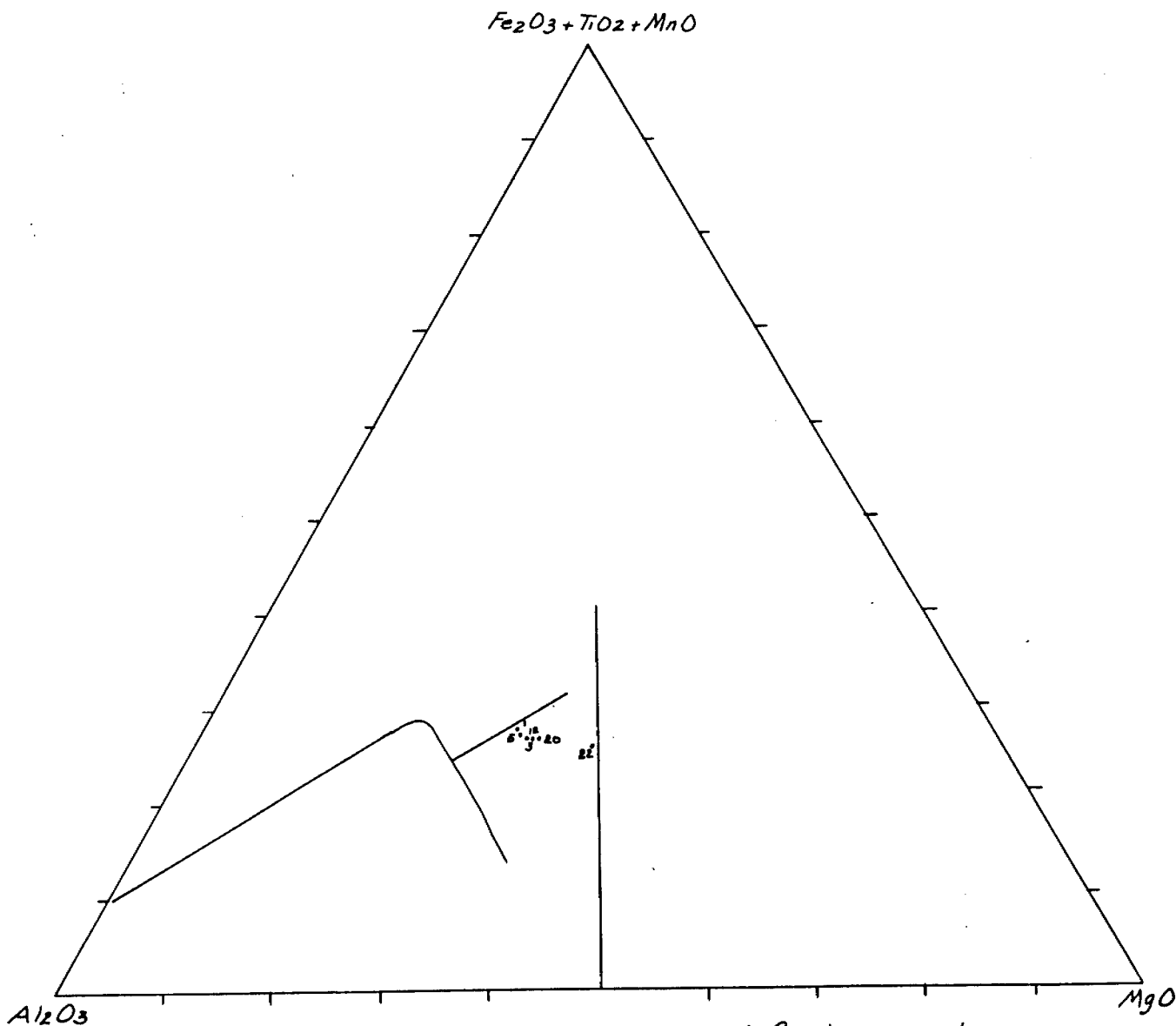
Table 1: Whole rock chemical analyses, McCort Township property

SAMPLE \ %	SI02	AL2O3	CAO	MGO	NA2O	K2O	FE2O3	MNO	TIO2	P2O5	CR2O3	LOI	SUM
P-1-91	54.0	12.5	12.5	6.64	1.04	.20	11.4	.19	.679	.07	.03	1.08	100.4
P-3-91	52.9	12.9	11.0	7.47	1.32	.35	11.8	.20	.707	.07	.05	1.85	100.7
P-5-91	52.6	13.3	10.5	7.20	2.57	.20	12.2	.17	.712	.07	.05	1.00	100.6
P-12-91	51.7	13.4	9.06	7.63	2.97	.23	12.3	.20	.752	.08	.03	1.70	100.1
P-20-91	52.6	12.6	10.3	7.55	1.51	.86	11.8	.21	.703	.07	.05	1.70	100.0
P-22-91	51.4	12.0	11.1	9.44	1.31	.22	12.3	.20	.619	.07	.11	1.54	100.3

SAMPLE \ PPM	RB	SR	Y	ZR	NB	BA
P-1-91	15	128	27	55	12	76
P-3-91	<10	103	12	55	23	144
P-5-91	<10	103	25	66	15	77
P-12-91	<10	89	12	65	15	142
P-20-91	19	68	27	53	<10	281
P-22-91	16	118	<10	42	18	80

Table 2: Assays, McCort Township Property

SAMPLE	AU PPB	AS PPM	PD PPB	PT PPB
P-2-91	4	--	12	<10
P-4-91	<1	--	6	10
P-7-91	2	--	6	<10
P-9-91	<1	--	5	<10
P-25-91	1	--	--	--
P-27-91	2	--	--	--



Cation Plot of Samples from McCart Property

(Samples P1, P3, P5, P12, P20, P22)

Mg-tholeiite. As polysuturing is such a diagnostic structure of komatiitic rocks, this suggests that some of the more southerly flows on the property are of komatiitic affinity.

Mineralization

Only traces of mineralization were observed on the property, yet time constraints were such that only a cursory examination was possible. Minor disseminated pyrrhotite-pyrite occurs along a sheared and rusty weathered contact between the ultramafics and volcanics near L5E-L6E in the southwest corner of the property. Samples, assayed for Au-Pt-Pd, returned no anomalous values (Table 2). In the volcanics a number of bull white quartz veins, varying in width from a few cm to a meter, trend E-W and are notably barren of mineralization; assays for gold were negligible.

Results and Recommendations

The property is underlain by relatively flat lying Mg-tholeiitic basalts and ultramafic sill(s), interpreted to be on the north limb of an overturned anticline. Only minor pyrrhotite-pyrite mineralization was observed on the claims, but detailed prospecting, particularly along and near the contact zone of the ultramafics with the volcanics for potential Ni-Cu and/or Pt-Pd mineralization is recommended. The prospecting would necessarily be extended into contiguous claims to the south, which are also held by the co-owners, and are known to host minor nickel mineralization along the sheared ultramafic-volcanic contact extending southwest near L7E.

D. R. Lyke

REFERENCES

Jensen, L. S.

- 1976: A New Cation Plot for Classifying Subalkalic Volcanic Rocks;
Ontario Division Mines, Miscell. Paper 66, 22p.

Ontario Geological Survey

- 1988: Airborne Electromagnetic and Magnetic Survey, Timmins
Area, McCart Township, Map 81058, scale 1:20,000.

Pyke, D. R., Ayres, L. D. and Innes, D. G.

- 1973: Timmins-Kirkland Lake Sheet; Ontario Division of Mines,
Geological Compilation Series, Map2205, scale 1"= 4 miles

Shklanka, R.

- 1969: Copper, Nickel, Lead and Zinc Deposits of Ontario; Ontario Dept.
Mines, MRC 12, 394p.

Satterly, J.

- 1953: McCart Township; Ontario Department Mines, Preliminary Map
P16, scale 1" = 1/4 miles.



X-Ray Assay Laboratories
A Division of SGS Supervision Services Inc.

1885 Leslie St.
Don Mills
Ontario M3B 3J4
Canada
Tel: (416) 445-5755
Fax: (416) 445-4152
Telex: 09-986947

Invoice To:
D.R. PYKE & ASSOCIATES
ATTN: D.R. PYKE
31 DELAIR CRESCENT
THORNHILL, ONTARIO
L3T 2M3

Invoice Date: 26-Nov-91
Work Order No.: 11274
Date Submitted: 5-Nov-91
Report No.: 17528
Customer No.: 754/DR0155
Your P.O. No.:
Your Project No.:

Submitted To:
D.R. PYKE & ASSOCIATES
ATTN: D.R. PYKE
31 DELAIR CRESCENT
THORNHILL, ONTARIO
L3T 2M3

NO. OF PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM	TYPE OF SAMPLES	
1 PKG	SELF		THORNHILL	ROCK	
QUANTITY	DESCRIPTION METHOD		CODE NUMBER	UNIT COST	AMOUNT
1. 32	WHOLE ROCK ANALYSES		6 0 0 0 0	35.00	1120.00
2. 32	CRUSHING & MILLING		1 0 0 0 0	4.50	144.00
1	JENSEN PLOT		15 0 0 0 0	12.00	12.00
GST REG NO. R105082572 APPLIED TO \$1276.00					89.32
SHIPPING CHARGES		CUSTOM BROKERAGE	TELEXFAX	MINIMUM CHARGES	
OTHER		TERMS NET 30 DAYS, 1.5% PER MONTH INTEREST ON ACCOUNTS OVER 30 DAYS			SURCHARGE - RUSH SERVICE

Misc. CHARGES

ORIGINAL INVOICE



Member of the SGS Group (Société Générale de Surveillance)

TOTAL IN →

CDN FUNDS \$ 1365.32



X-Ray Assay Laboratories
A Division of SGS Supervision Services Inc.

1885 Leslie St.
Don Mills
Ontario M3B 3J4
Canada
Tel: (416) 445-5755
Fax: (416) 445-4152
Telex: 09-986947

Invoice To:

D.R. PYKE & ASSOCIATES
ATTN: D.R. PYKE
31 DELAIR CRESCENT
THORNHILL, ONTARIO
L3T 2M3

Submitted To:

D.R. PYKE & ASSOCIATES
ATTN: D.R. PYKE
31 DELAIR CRESCENT
THORNHILL, ONTARIO
L3T 2M3

Invoice Date: 25-Nov-91
Work Order No.: 11273
Date Submitted: 5-Nov-91
Report No.: 17502
Customer No.: 754/DR0155
Your P.O. No.:
Your Project No.:

NO. OF PKGS	SHIPPED VIA	WAY BILL NO.	SHIPPED FROM	TYPE OF SAMPLES
1 PKG	SELF		THORNHILL	ROCK
QUANTITY	DESCRIPTION METHOD	CODE NUMBER	UNIT COST	AMOUNT
1. 59	AU, PPB	210 7 0 0 0	8.00	472.00
2. 6	AU, PD, PT, PPB	210 7 0 0 0	11.50	69.00
3. 5	AS, MIXED ACID DIG.	3 7 0 0 0 0	6.00	30.00
4. 65	ROCK, CRUSHING & MILLING (CHROME STEEL MILL)	99 1 0 0 0 0	4.50	292.50
GST REG NO. R105082572 APPLIED TO \$863.50				60.44
MISC. CHARGES		SHIPPING CHARGES	CUSTOM BROKERAGE	TELEX/FAX
		MINIMUM CHARGES		
OTHER		SURCHARGE - RUSH SERVICE		
TERMS NET 30 DAYS, 1.5% PER MONTH INTEREST ON ACCOUNTS OVER 30 DAYS				

ORIGINAL INVOICE

TOTAL IN →

CDN FUNDS \$ 923.95



Vancouver Petrographics Ltd.

8080 Glover Road, P.O. Box 39
FORT LANGLEY, B.C. VOX 1J0

INVOICE

No 1325

GS NUMBER: R105484687

(604) 888-1323 Fax (604) 888-3642

TO: D R Pyke & Associates Inc
31 Delair Crescent
Thornhill, Ontario
L3T 2M3

SALESPERSON	DATE OF INVOICE Dec 19, 91
SHIP TO Attn: Dale R Pyke Ph.D.	

ACCOUNT NO.	DATE SHIPPED	SHIPPED VIA	COL P.P.	F.O.B. POINT	TERMS	YOUR ORDER NUMBER	
	Dec 19	Loomis	*X	Ft. Langley	Net 30 days	D R Pyke	
QUANTITY	DESCRIPTION					UNIT PRICE	AMOUNT
38	thin sections					8.00	304.00
36	off-cuts					0.75	27.00
	G.S.T. (7%)						23.17
<i>Thank You</i>						TOTAL	354.17

Paid Dec 30/91 chq #1306.

Expenditure Breakdown - McCart Township

6 whole rock analyses and 6 assays	\$319.93
5 days geological mapping	\$1750.00
4.5 days report writing, petrography map production	\$1575.00
12 thin sections	\$112.35
Mileage - 1100 km @ \$0.30/km	\$330.00
Food & Lodging - 5 days @ \$40/day	\$200.00
	<hr/>
	\$4287.28

$$\text{Value of assessment/claim} = \frac{4287.28}{4} = \underline{\underline{\$1072.00}}$$

Report of Work Conducted After Recording Claim Mining Act

MP6 LANDS Transaction Number W9360.00097

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

2.15030

- Instructions: - Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for required Recorder.
- A separate copy of this form must be completed.
- Technical reports and maps must accompany this.
- A sketch, showing the claims the work is assigned to.



900

Recorded Holder(s) Bruce N. RAINE	Client No. 185565
Address 1668 DALTON Rd, TIMMINS PAN 702	Telephone No. 705-267-7492
Mining Division Porcupine	Township/Area MCCART
M or G Plan No.	
Dates Work Performed From: SEPT 11/91 To: JAN 28/92	

Work Performed (Check One Work Group Only)

Work Group	Type
<input checked="" type="checkbox"/> Geotechnical Survey	Geological
<input type="checkbox"/> Physical Work, Including Drilling	
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

RECORDED
MAY - 5 1993
Receipt

Total Assessment Work Claimed on the Attached Statement of Costs \$ **4287** AS PER STATEMENT

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

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

Name	Address
DALE R. Pyke	31 Delair Cres, Thornhill, Ont L3T 2M3

RECEIVED
MAY 20 1993
MINING LANDS BRANCH

(attach a schedule if necessary)

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

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date May 3/93	Recorded Holder or Agent (Signature) D R Pyke
--	-------------------------	---

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 DALE R. Pyke, 31 Delair Cres, Thornhill, Ont. L3T 2M3		
Telephone No. 416-731-1913	Date May 3/93	Certified By (Signature) D R Pyke

For Office Use Only

Total Value Cr. Recorded 4287.00	Date Recorded MAY 5th 1993	Mining Recorder [Signature]	Received Stamp RECEIVED MAY 1993 [Signature]
	Deemed Approval Date AUG. 3rd 1993	Date Approved	
	Date Notice for Amendments Sent		



Ministry of
Northern Development
and Mines

Ministère du
Développement 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

Transaction No./N° de transaction

W1360.00097

2.15000

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.

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 question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre	\$ 3325	
	Field Supervision Supervision sur le terrain		3325
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type		
Supplies Used Fournitures utilisées	Type Thin Sections	\$ 112	
	Analyses	\$ 320	
			\$ 432
Equipment Rental Location de matériel	Type		
RECEIVED			
MAY 20 1993			
MINING LANDS			
Total Direct Costs Total des coûts directs			\$ 3757

2. Indirect Costs/Coûts indirects.

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Vehicle	\$ 330	
RECORDED MAY 5 1993			
Food and Lodging Nourriture et hébergement	5 DAY @ 40/DAY	\$ 200	
Mobilization and Demobilization Mobilisation et démobilisation			
Sub Total of Indirect Costs Total partiel des coûts indirects			\$ 530
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			\$ 751
Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)			\$ 4287

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.

Note : Le titulaire enregistré sera 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.

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
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. 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 totale du crédit d'évaluation	Evaluation totale demandée
	x 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.

that as Agent I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

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 Agent je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature D R Lyke Date MAY 3/93



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Geoscience Approvals Section
Willet Green Miller Centre
933 Ramsey Lake Rd., 6th Flr
Sudbury, Ontario
P3E 6B5

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

Our File: 2.15030
Transaction #: W9360.00097

July 23, 1993

Mining Recorder
Ministry of Northern
Development and Mines
Timmins, Ontario
P4N 2S7

Dear Sir:

**RE: Approval of Assessment Work on mining claims P 1131544 et al. in
McCarr Township.**

The assessment credits for Geology, section 12 of the Mining Act
Regulations, as listed on the original Report of Work, have been approved
as of July 22, 1993.

Please indicate this approval on the claim record sheets.

If you have any questions please contact Dale Messenger at 670-5858.

Yours sincerely,

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

DEM/dm

cc: Assessment Files Office ✓
Toronto, Ontario

Resident Geologist
Timmins

TOWNSHIP OF NEWMARKET

NOTE
 LOT AND CONCESSION LINES SHOWN HEREON ARE PROJECTED FROM THE BEST INFORMATION AVAILABLE, BUT THEIR TRUE POSITION IS NOT GUARANTEED.

FOR LEGAL AND SURVEY PURPOSES CONSULT THE ORIGINAL SURVEY PLANS AND FIELD NOTES OF RECORD IN THE DEPARTMENT OF LANDS AND FORESTS, TORONTO.

ACREAGES SHOWN IN RESPECT OF PATENTED LOTS ARE IN ACCORDANCE WITH AREA GRANTED.

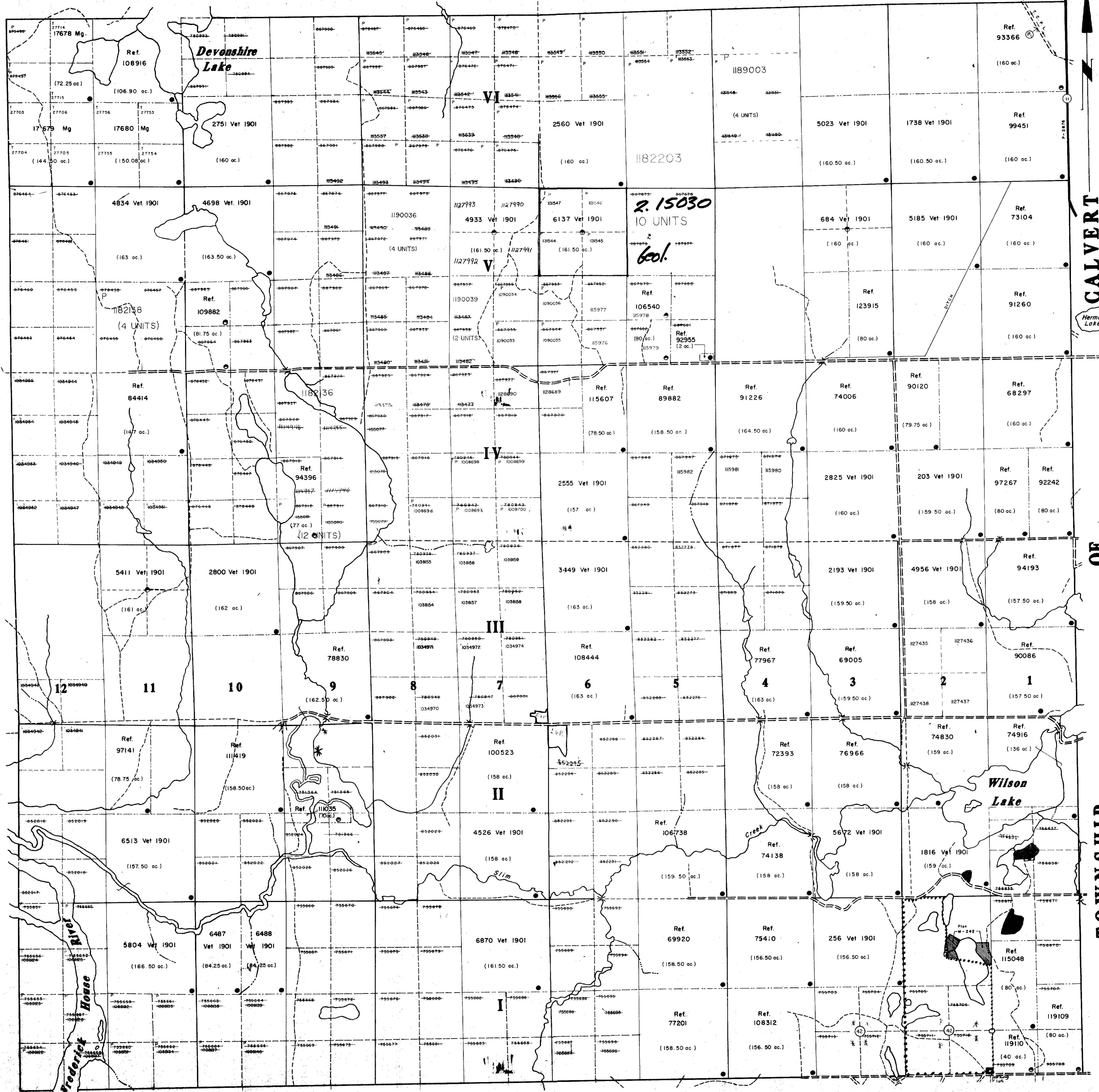
AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File
REOPENED	N.R.O. 71/84	14/12/70	S.R.O. MR.	36886

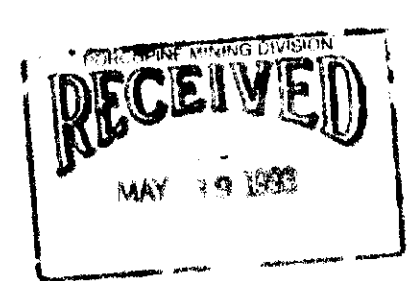
Surface Rights Withdrawn under Sec. 34, The Mining Act R.S.O. 1980, ORDER NO. W-01/81/CNT (From Canada Pipeline Right of Way and Buffer Zone preliminary 40.25 metres or 132 ft. on either side of centre line of right of way)

LITTLE OF TOWNSHIP



TOPOGRAPHY
 LAKES, RIVERS, ETC., FROM FOREST RESOURCES INVENTORY SHEETS N° 486804 AND 487804

SURVEYS
 TOWNSHIP OF McCART SUBDIVIDED BY A.D. GRIFFIN, O.L.S., 1904. FIELD NOTE BOOK 1533.
 WEST LIMIT OF McCART TOWNSHIP (SEE LITTLE TWP) SURVEY BY J.W. FITZGERALD, O.L.S., 1904. FIELD NOTE BOOK 1402.
 EAST LIMIT OF McCART TOWNSHIP (SEE CALVERT TWP) SURVEY BY ALEXANDER BAIRD, O.L.S., 1904. FIELD NOTE BOOK 1009.
 THIRD MERIDIAN (EAST LIMIT OF McCART TWP) BY WILLIAM GALBRAITH, O.L.S., 1904. FIELD NOTE BOOK 2363.
 BASE LINE (SOUTH LIMIT OF McCART TWP) BY T.J. PATTEN, O.L.S., 1903. FIELD NOTE BOOK 2460.



LEGEND

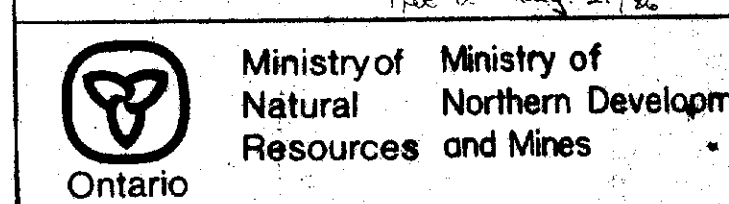
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION 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	

SCALE: 1 INCH = 20 CHAINS
 FEET 0 1000 2000 4000 6000 8000
 METRES 0 200 1000 2000 4000

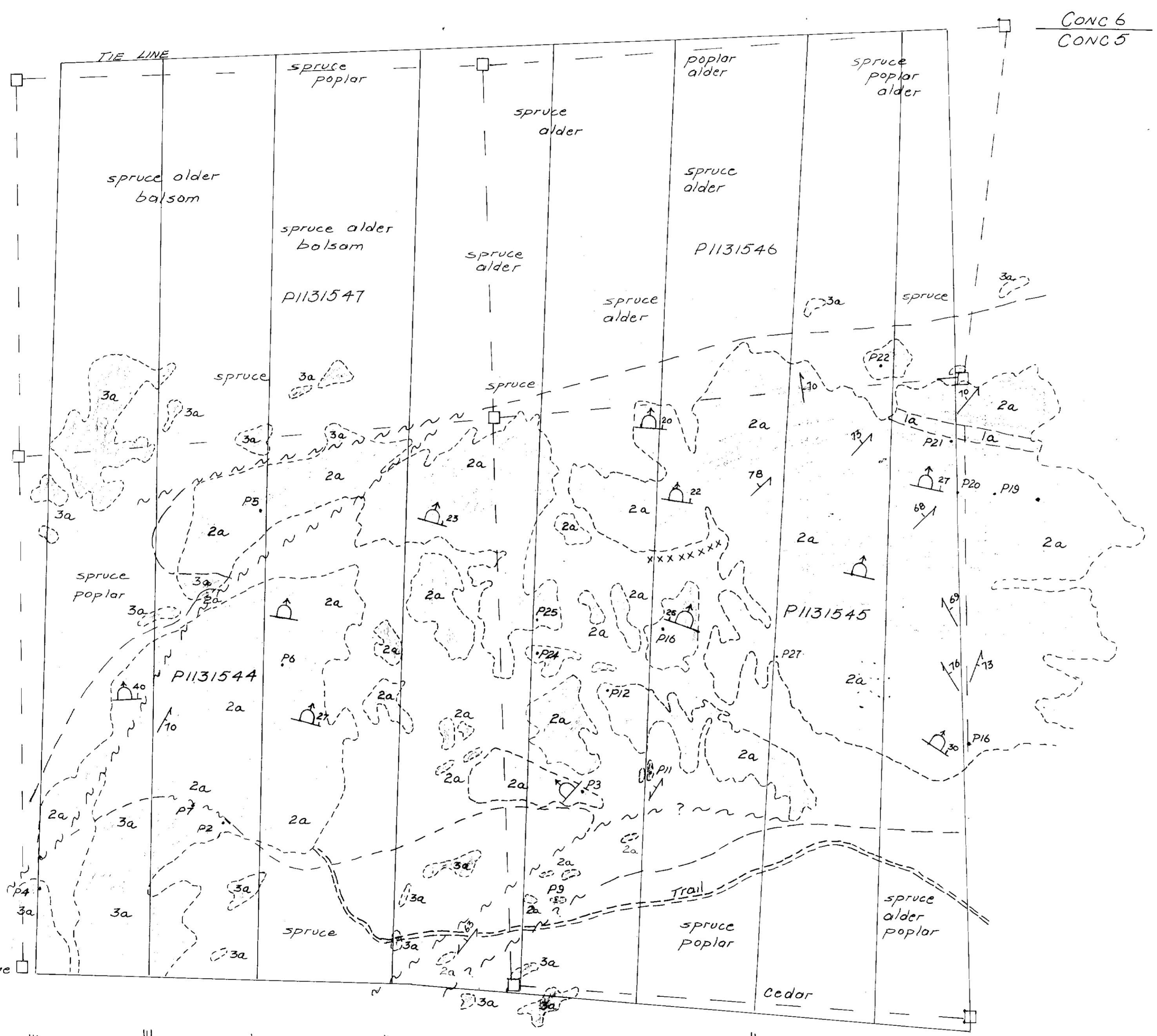
TOWNSHIP **2.15030**
Mc CART
 M.N.R. ADMINISTRATIVE DISTRICT
 COCHRANE
 MINING DIVISION
 PORCUPINE
 LAND TITLES / REGISTRY DIVISION
 COCHRANE



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

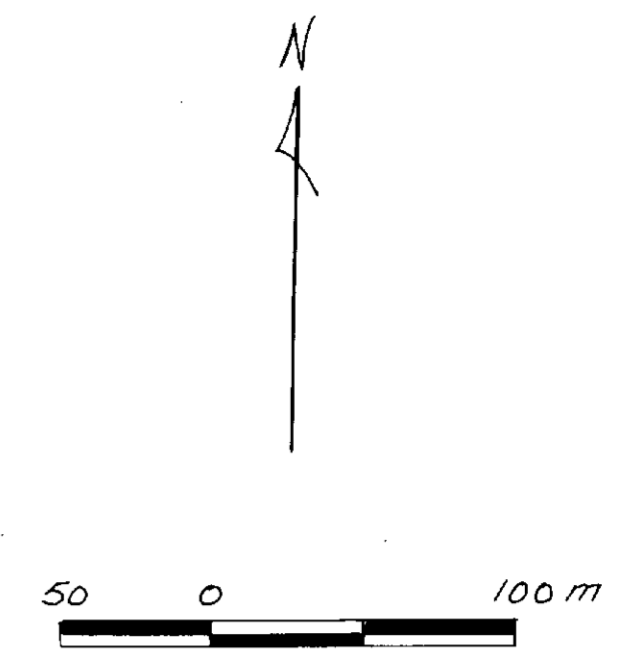
TOWNSHIP OF DUNDONALD

800 N
700 N
600 N
500 N
400 N
300 N
200 N
100 N
Base Line



LOT 7
LOT 6
LOT 6
LOT 5

400 E
500 E
600 E
700 E
800 E
900 E
1000 E
1100 E
1200 E



- SYMBOLS
- Outcrop area
 - Geological boundary
 - Pillow/lava with top direction and dip
 - Fracture cleavage
 - Foliation
 - Shear/fault (interpreted in areas of no outcrop)
 - Raised boulder beach
 - P4 Sample location (assay-whole rock-thin section)
 - Claim post

2-15030

- LEGEND
- 3a Dunite-Peridotite (ultramafic intrusion)
 - 2a Mg-tholeiitic basalt
 - 1a Peridotitic komatite (tremolitic)

GEOLOGICAL SURVEY
MCCART TOWNSHIP PROPERTY
SOUTH CLAIM GROUP
January, 1992 Scale: 1:2500

D. R. Ruppel

