RVICES EXPLORATION SERVICES Enrog.

TELEPHONE: (819) 762-5498

765, BOUL. QUÉBEC C.P. 428 ' ROUYN, P.Q. J9X 5C4

Dessin et Reproduction Jalonnement de Claims Coupage de Lignes Levés Géophysiques Levés Géologiques Programmes d'Exploration Vente d'articles d'exploration minière Drafting and Reproduction Services
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Geophysical Surveys
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exploration articles



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GEOPHYSICAL SURVEYS

COSBY CLAIM GROUP

WALKER TWP. ONTARIO
August 1985

I - INTRODUCTION:

Within the framework of a comprehensive exploration program, a magnetometer survey and a V.L.F electromagnetic survey were carried out, during the month of June, 1985, on the "COSBY" claims located in Walker Twp., Ontario.

II - PROPERTY:

The property consists of ten (10) contiguous 16 hectares claims numbered as follows:

800964, 800965, 800966, 800967, 800995, 800996, 821286, 821287, 821289 and 821291.

III - LOCATION & ACCESSIBILITY:

The claim group is located in the northern part of Walker Twp., Ontario, i.e. on parts of lots 5 and 6, concession V, Larder Lake Mining Division.

The property lies at an approximate distance of 9 kilometers southeast of the town of Iroquois Falls, 5 kilometers east of highway 577 and 8 kilometers northeast of trans-Canada highway 11.

A range road (V-VI) leads eastward from the town of Iroquois Falls to the shores of the Black River.

The claim group may be reached by following, by boat,

the river in a southeasterly direction for an approximate distance of one half mile.

IV - GEOPHYSICAL SURVEYS;

The surveys were carried out on a previously cut grid whose base line trends north-south for the western part of the grid and east-west for the eastern section. A total of 9 line miles were cut and surveyed.

Electromagnetic Survey:

A Geonics' E.M.-16 electromagnetic unit was used for the survey; readings were taken at every 100' intervals, facing south and tuned to the NAA Cutler Maine station emitting at 24.0 KHz.

Three parallel conductors have been outlined in the western part of the grid (east-west cross lines) trending in a southeasterly direction. These are labeled conductors "A", "B" and "C". Conductor "C" appears to be the strongest and the most pervasive. According to the magnetic patterns, the conductors trend in a direction parallel to the local stratigraphy.

Three parallel conductors have also been outlined in the eastern part of the grid (north-south cross

lines) trending in an east, southeast direction.

Conductor"D" located in the northeast quadrant of the grid area is relatively strong, however it is also coincident with a local stream, i.e. it is an expression of a topographical feature.

Conductor "E-1"outlined on cross lines 8W and 4W in the vicinity of 4S appears to have been tested by drilling: the collar of a D.D.H. has been observed immediately east of cross line 8W.

Conductor "F" has been outlined in the southeastern part of the grid; it is relatively weak.

Magnetometer Survey:

The survey was carried out using an Exploranium G-816 proton magnetometer which has a sensitivity reading of 1 gamma. The readings were taken at every 100' intervals. The usual diurnal and datum corrections were made.

Southwesterly trending magnetic features were outlined in the western part of the grid. They probably infer the presence of mafic flows

V - CONCLUSIONS & RECOMMENDATIONS:

All of the available geoscientific data should be studied before considering any of the E.M.-16 conductors as drill targets. In addition, induced polarisation surveys should be carried out to verify the nature of the E.M.-16 conductors.

Respectfully submitted:

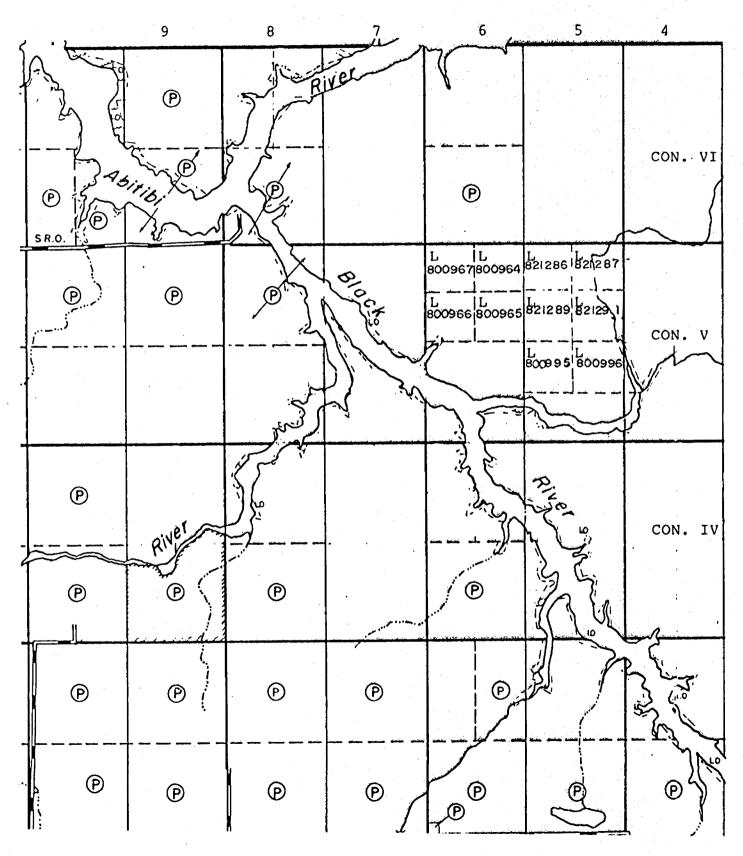
E. Chartré: 511/2. 1415

August 15, 1985.

SERVICES EXPLORATION ENRG.

COSBY CLAIMS

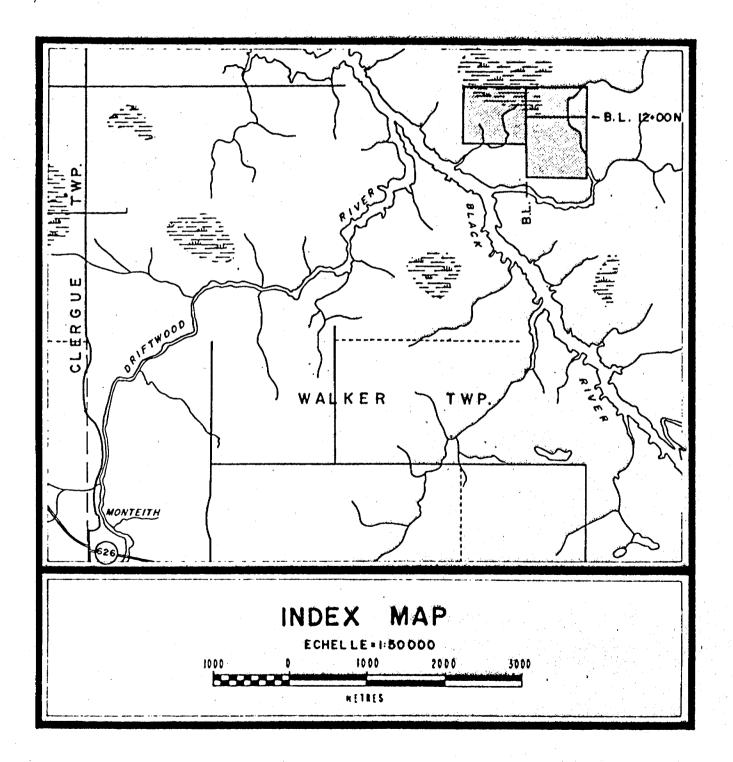
WALKER TWP.



Scale: 1'' = 2640'

COSBY CLAIMS

WALKER TWP.





GEOCHEMICAL SURVEY ASS.

INTRODUCTION

I Merle S. Cosby reside at 13 Windermere Road, St. Catharines, Ont. L2T 3W1.

I supervised as well as performed the Survey work relative to my claims and am the writer of this Assessment Work Report.

QUALIFICATIONS BACKGROUND

I have been a prospector for over 25 years. My prospector's license number is K 15600.

My knowledge of the Mining Explorations field was acquired by performing various aspects of exploration functions including Drilling Programs through employment with the following two Mining Companies over a period of approximately 11 years;

Selco Explorations Company Ltd. Toronto, Ont.

Mining Corporation Ltd. Toronto, Ont.

PROPERTY DATA

The property consists of (ten) contiguous 16 hectare claims numbered as follows;

800964 800965 800966 800967 800995 800996 821286 821287 821289 and 821291.

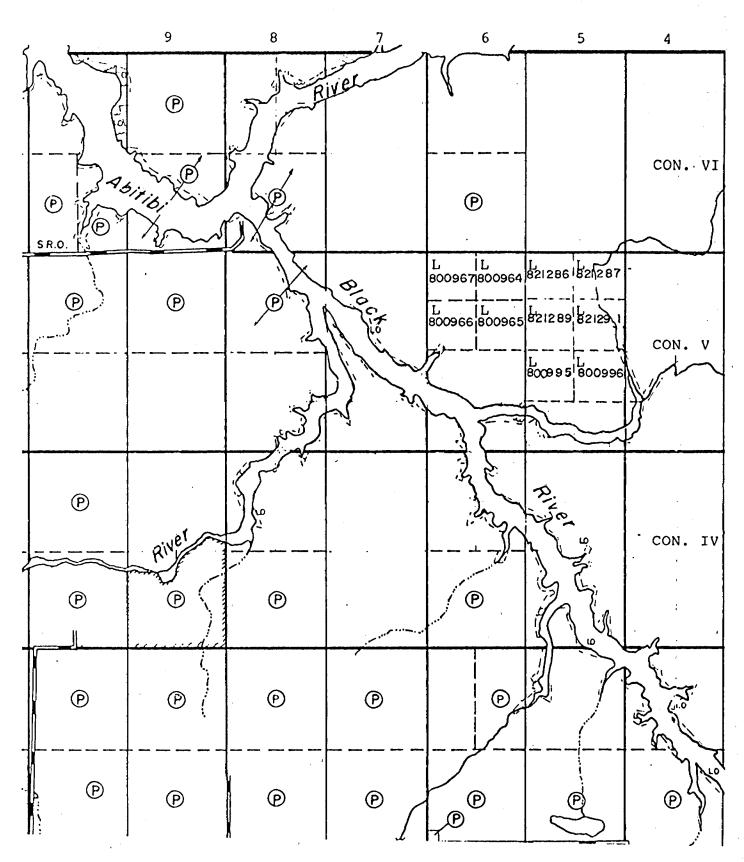
Location and Accessibility

The claims group is located in the northern part of Walker Township, Ontario. i.e. on part of lots 5 and 6 Concession V, Larder Lake Mining Division.

The property lies at an approximate distance of 9 kilometers south east of the town of Iroquois Falls, 5 kilometers east of highway 577 and 8 kilometers northeast of trans-Canada highway 11. Map enclosed. Scale 1" equals 2640 '

COSBY CLAIMS

WALKER TWP.



Scale: 1" = 2640'

A range road (V-VI) leads eastward from the town of Iroquois Falls to the shores of the Black River. The claim group may be reached by following, by boat, the river in a southeasterly direction for an approximate distance of one half mile. Index Map enclosed.

CLAIMS SURVEYS

Within the framework of a comprehensive exploration program, a magnetometer survey and a V.L.F. electromagnetic survey were carried out during the month of June 1985 on the "Cosby" claims located in Walker Township, Ont.

GEOCHEMICAL SURVEY

In June and September 1986 an geochemical survey was carried out on the Cosby claims group by Merle S. Cosby. The Cosby claims group were rechained. Stations were set up at 300' intervals. Samples were taken with an $\frac{1}{2}$ " stainless steel auger, 3' long. The samples consist of an ounce or 30 gram sample from the B. Zone clay material across the 10 claims group.

GEOLOGY - TIMMINS-KIRKLAND LAKE Series Map 2205

Intermediate and Mafic Metavolcanic 1 C Mafic and pyroclastic rocks.

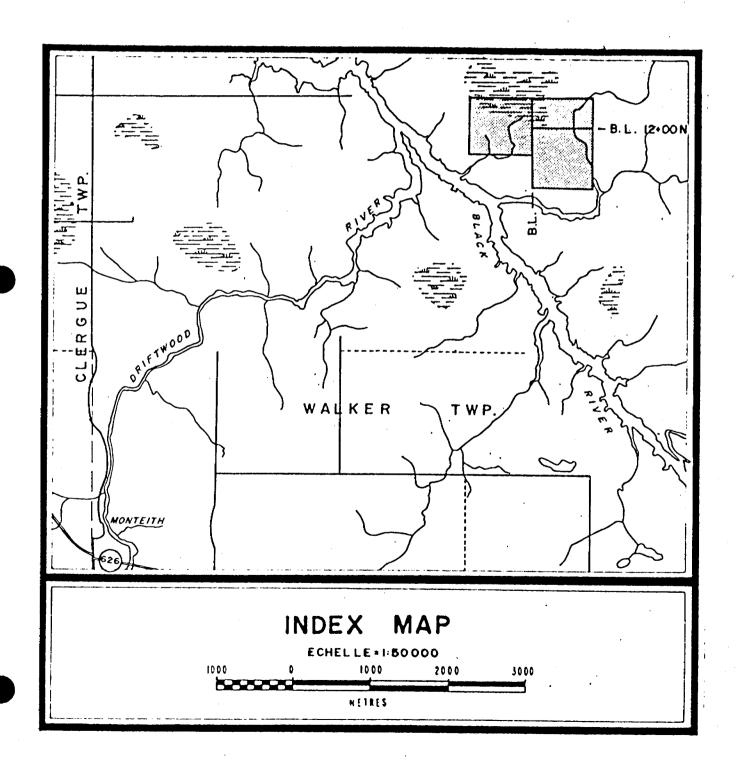
NOTES ON THE GEOLOGY OF WALKER TOWNSHIP - ONTARIO DEPARTMENT OF MINES PRELIMINARY GEOLOGICAL MAP NO. P. 103

Much of Walker township is covered by varved clay and silt of glacial lake origin. A few small bog deposits occur southwest of the Black River. Bog deposits are extensive in the northeastern part of the township. The topography is gently rolling except where large outcrop areas rise 30 to 70 feet above the overburden.

The outcropping Precambrian rocks consist largely of acid, intermediate, and basic lavas intruded by northerly trending diabase dikes generally considered to be of Matachewan age. The acid volcanic rocks are for

COSBY CLAIMS

WALKER TWP.



the most part agglomerates with oval to angular fragments up to $1\frac{1}{2}$ feet in length. A small outcrop of spherulitic rhyolite was found in lot 3, Concession II. The intermediate lavas were named dacite, although no thin section examinations have been made. These rocks are hard, flinty grey in colour, and weather readily to a rust or cream colour. They commonly contain minor amounts of finely disseminated pyrite. They characteristically have poorly developed pillow structure, and commonly change along strike to pyroclastic rocks. The basic lavas are uniform or pillowed. One distinctive flow of pillowed basic lava, occurring in lots 10 and 12 in Concessions III and IV, is porphyritic within pillows. None of the pink to cream phenocrysts was seen to cross pillow margins.

A narrow sill of feldspar porphyry, perhaps a crystal tuff, was traced in lots 10 and 11, Concession II. A single small outcrop of quartz monzonite was found in Lot 7, Concession II.

Coarse-grained gabbro or diorite, believed to be intrusive into the lavas, was observed in Lot 12, ConcessionIV and in lots 9 and 10, Concession II.

Sedimentary rocks are reported to occur in Concession I south of the Pipestone fault. The fault is indicated by magnetic surveys outlining ultrabasic masses, and by drilling in areas short distances to the east and west of Walker township.

An east-west synclinal axis passes through the town of Monteith. The north limb is overturned, dipping steeply north. A parallel anticlinal axis lies about one mile to the north.

WATER FLOW OF THE CLAIMS GROUP

The Creeks have been identified by Number on the Geochemical Map as well as the Claim numbers.

Claim # 821287 - All water flows south east to Creek # 3.

Claim # 821286 - All water flows from a small bog or swamp to Creek #2
which flows in a south west direction into Creek # 1.

Claim # 821291 - All water flows south east to Creek # 3.

Claim # 821289 - All water flows into a valley to the south west.

Claim # 800996 - All water flows east and south into Creek # 3.

Claim # 800995 - All water flows south into Creek # 3.

Claim # 800964 - All water flows south west into Creek # 1.

Claim # 800965 - All water flows south into Creek # 1.

Claim # 800967 - All water flows south east into Creek # 1.

Claim # 800966 - All water flows south into Creek # 1.

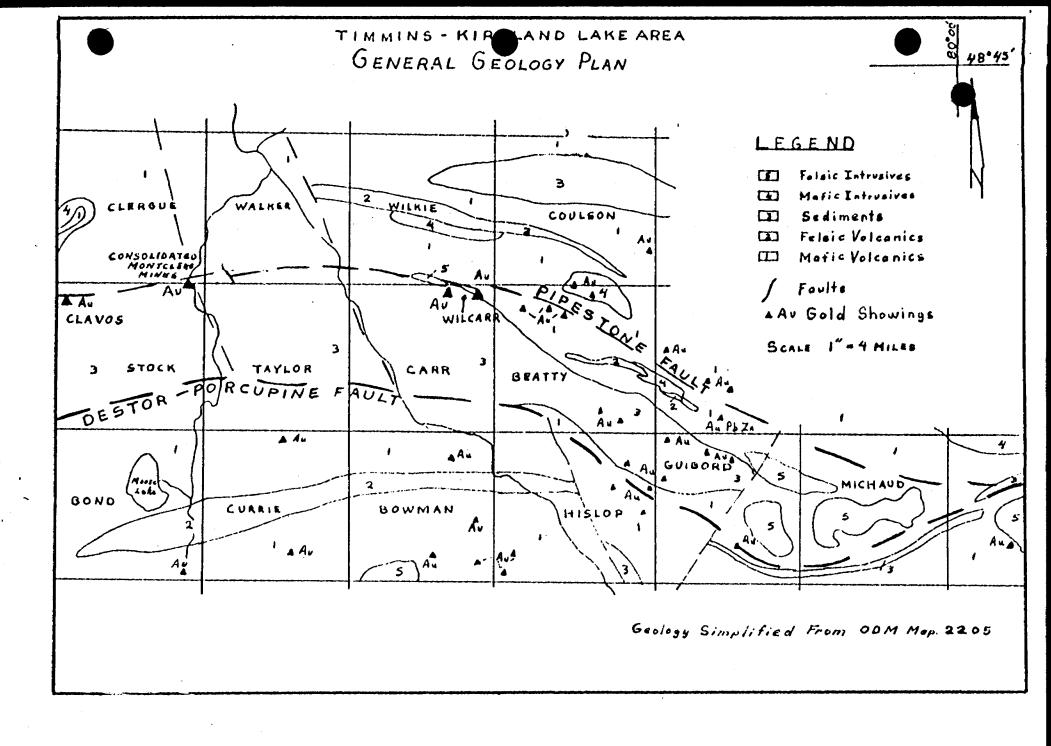
CONCLUSIONS & RECOMMENDATIONS

Due to the low relief on the east and west sides of Base line 24 North, no concentration of heavy metals has been shown except on line 0 plus 00 claim # 800996 which shows low copper in P.P.M.

However, as a result of the Geochemical Survey a rust colour sediment was discovered in Creek # 2 which flows into the Black River. (Ferric Hydroxide) (FE2 03). More detailed work will be required in the area. In addition, induced polarisation survey should be carried out to verify the nature of the E.M. 16 Conductor.

merled losly

Merle S. Cosby
13 Windermere Road,
St. Catharines, Ont.



Church Road RR 2 Havelock Ont. KOL 1ZO Telephone 705 778 3120

Twa lopys Date 2/6 1986

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Church Road RR 2 Havelock Ont. KOL 1ZO
Telephone 705 778 3120

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Church Road RR 2 Havelock Ont. KOL 1ZO Telephone 705 778 3120 Date 25/6 198 6

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Church Road RR 2 Havelock Ont. KOL 1ZO Telephone 705 778 3120 Theor lapys

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Church Road RR 2 Havelock Ont. KOL 1ZO Telephone 705 778 3120 Date 18/7 198 6

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GEOLOG1

In reference to Regional Geological Map (O.M.N.R. 2205), of the Timmins Kirkland Lake sheet, it indicated that Walker Township is believed to be underlain by Mafic flows, Pyroclastic rocks, Felsic Metavolcanics unsubdivided and Diabase dikes.

During survey of the property, no outcrop was seen but on the Black River Lot 6, Concession 5, there is an outcrop of Olivine Basalt of which I collected a sample.

Nonbern Development Mines	(Geophysical,	Geologica			B St St Inches	- Piease type or pi	7int. 1
Ontario •. •	Geochemical :	and Expen	ditures)				; ;
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Claim Holder(s) MERLE Address	C Cal	/ \ \/\/s	2700-7	<u> </u>		Prospector's Lice	nce No.
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Name and Address of Author (of Geo-Technical report)						
Credits Requested per Each	Claim in Columns at	right	Mining (Claims Traversed (List in num	erical sequence)	
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Enter 40 days, (This	- Electromagnetic			800967	2.2		
includes line cutting)	- Magnetometer			800966	2.2		
For each additional survey: using the same grid:	- Radiometric		1 44 2	800964	2.2		
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and enter total(s) here	- Electromagnetic			821287	2.2	and the ships	
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Date Suny US 7 M	orded Holder or Agent (S	igpature)	22.09	Date Approved a	3 987	W. Mila, C.	Lever
Certification Verifying Repor		Cay		1987.09	10.	1 MMC	Managhy
I hereby certify that I have a p	personal and intimate kn	owledge of t	the facts set fo	orth in the Report o	f Work annex	red hereto, having pe	rformed the work
or witnessed same during and/ Name and Postal Address of Perso	or arter its completion a	nd the anne.	xed report is	true.			
MERLE C CO	3hy 13m	NDE	RME	RE RD. S	TCAT	HARINES	ONT
MERLIE C CO	Palu			Date Certified	62	Certified by (Signa	ture)
1362 (85/12)				5,000		1	30000



Technical Assessment Work Credits

2.9792

July 21, 1987

Mining Recorder's Report of Work No. 40/87

Recorded Holder	
MERLE S. COSBY	
Township or Area	
WALKER	
Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	
Electromagnetic	_ days
Magnetometer	L 800964 to 07 inclusive
Radiometric	821289
Induced polarization	821291 800995-96
Other	_ days
Section 77 (19) See "Mining Claims Assessed" cold	
Geological	
Geochemical13	_ days
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Special provision X Ground	d []x
Credits have been reduced because of partial coverage of claims.	
Credits have been reduced because of correction to work dates and figures of applicant.	ons
·	
Special credits under section 77 (16) for the following	owing mining claims
No credits have been allowed for the following n	nining claims
not sufficiently covered by the survey	insufficient technical data filed

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



Ministry of Northern Development and Mines

August 5, 1987

Your File: 40/87 Our File: 2.9792

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

Dear Sir:

RE: Notice of Intent dated July 21, 1987

Geochemical Survey on Mining Claims L 800964, et al, in Walker Township

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,

R.M. Charnesky (Mrs.)

Acting Manager

Mining Lands Section

Mineral Development and Lands Branch

Mines and Minerals Division

Whitney Block, Room 6610 Queen's Park Toronto, Ontario

M7A 1W3

Telephone: (416) 965-4888

OYDK/mc

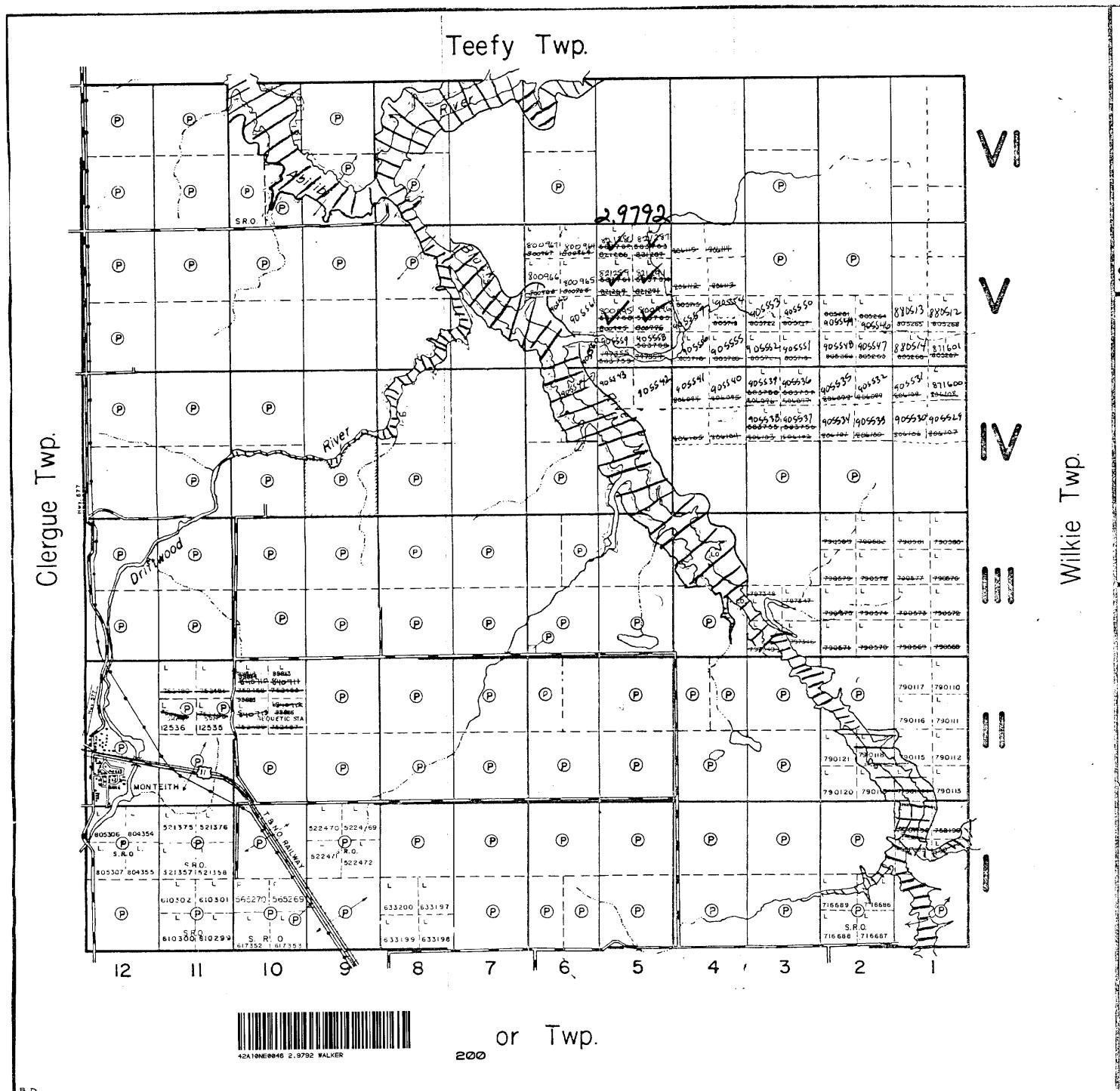
cc: Merle S. Cosby
13 Windermere Road
St. Catharines, Ontario
L2T 3W1

Resident Geologist Kirkland Lake, Ontario Mr. G.H. Ferguson Mining & Lands Commissioner Toronto, Ontario Pro Pata Geodemi

2.9792

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THE TOWNSHIP

OF

WALKER

DISTRICT OF COCHRANE

LARDER LAKE MINING DIVISION

SCALE: I-INCH= 40 CHAINS

LEGEND

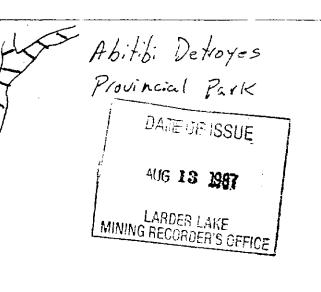
S or 0.3.

PATENTED LAND
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LEASES
LOCATED LAND
LICENSE OF OCCUPATION
MINING RIGHTS ONLY
SURFACE RIGHTS ONLY
ROADS
IMPROVED ROADS
KING'S HIGHWAYS
RAILWAYS
POWER LINES
MARSH OR MUSKEG
MINES

NOTES

400' Surface rights reservation around all lakes and wers.

LO. 8672 issued for flooding rights along the shares of Abitibi , Black and Driftwood Rivers.



PLAN NO.- M-396

ONTARIO

MINISTRY OF MATURAL RESOURCES

SURVEYS AND MARLING BRANCH

