

ASSESSMENT REPORT

GEOCHEMICAL SURVEY ON

M. C. 532869

TOWNSHIP OF CATHARINE

DISTRICT OF TIMISKAMING

RECEIVED

JUN 14 1984

MINING LANDS SECTION

S. A. Gamble May, 1984

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Introduction

This report contains the results of a soil and humus geochemical survey carried out on M. C. 532869, Township of Catharine, Dirtrict of Timiskaming, in September 1983. To this date soil and humus geochemistry had not been investigated on the property. This report is being submitted for assessment purposes to accompany the preliminary plan of the survey which was submitted in December, 1983.

Location and Access (see map 1.)

M. C. 532869 is located in the Township of Catharine, and consists of the S. W. ‡ of the N. ½ Lot 6, Concession III. The property is reached by traveling north from Englehart, Ont., on Highway 624, approximately 14 miles to where a bush road leaves Highway 624 towards the northwest. The bush road can be followed for a distance of 1½ miles by truck to where an impassable bush road continues in the direction of the property. Approximately ¼ mile along the impassable bush road a trail to thenorthwest leads directly to the property. A number of logging roads were added to the area in the winter of 1980-1981. In winter access is gained by snowmobile from Highway 624.

<u> History</u>

The property has had a varied history, having been held by a number of individuals and companies over the years. In 1916 it was part of the "Daley Claims" (18066). Later

it became the "shaft" claim of Ostrom Gold Mines and Canora Gold Copper Mines Ltd. (also Primary Gold Mines Ltd) respectively. In the early 1970's it was looked at by Moncrieff Uranium Mines Ltd. as part of the J. M. French claims.

In 1981 the property was held by present owners B. G. Cook and S. A. Gamble, and was optioned to Kennco Explorations ((Canada) Ltd., as part of a group option with 14 neighbouring unpatented claims. In the option agreement it became known as the "Cook" claim, although Kennco Exploration Canada Ltd., referred to the entire group as the Ostrom Gold Property. Kennco Exploration Canada Ltd. conducted VLF and Mag surveys over the claim and established a grid system. The option was dropped in early 1982.

Topography and Vegetation

The topography of the area is generally flat with local relief rarely exceeding ten meters. The foliage is generally mixed evergreen and deciduous typical of northern Ontario terrain. Some lower swampy ground occurs on the West boundary of the claim, and extends eastward into the central portion of the claim.

Geochemical Survey

The survey was conducted on September 5th and 17th, 1983 by B. G. Cook, R. Cook, J. Cook, and D. Jones. The 1981 Kennco baseline was re-established and the Kennco grid lines were brushed out. A total of 48 hunus and soil samples were taken at 2001 intervals over the grid area. (see Map 2.) The 48 humus and soil samples were sent to Bell _ white Analytical Laboratories Ltd., in Haileybury, Ontario in February, 1984 for sample preparation and geochemical analysis for gold. The sample locations were plotted on a plan of the grid in November, 1983 and filed for assessment at that time.

The results of the geochemical Au analysis are shown on copies of the Certificate of Analysis, which accompany this report. The geochemical results ranged from 2 ppb Au to 22 ppb Au. The statistical distribution of the Au values are as follows:

					No.	of	Samples
0	-	5 1	opb A	Au		13	
6	a 🗪	10	ppb	Au		13	
11	-	15	ppb	Au		15	
16	-	20	ppb	Au		6	
21	-	25	ppb	Au		1	

Total no. of samples 48

Values exceeding 15 ppb gold are considered to be of interest although not necessarily anomalous.

The weakly anomalous value of 22 ppb was checked and confirmed by Bell - White Analytical Laboratories Ltd.When the results are plotted on the grid map (see Map 3.) there appears to be a significantly lower area of gold values in the central portion of the claim that generally corresponds to low swampy conditions. This area extends roughly from L 4E / 0 + 00S - 10 + 00S to L2W/ 2+ 00S - 10 + 00S and lies within the 10 ppb Au contour. An area of higher values occurs on L6E/ 4 + 00S near the old shaft and extends southwest to L4E/ 6 + 00S with Au values of 19 ppb and 16 ppb respectively. A single spike - like value of 22 ppb Au is found on L6E/ 10 + 00S approximately 500 feet south of the old shaft.

Conclusions and Recommendations

The geochemical survey has added significantly to the information available on M. C. 532869 and has produced several target areas for further examination. Further investigation of the Au values in areas near L6E/4 + 00S and 10 + 00S is warranted. It is recommended that the surface areas near the higherant Au values be stripped and checked. Manual stripping may suffice where the bed rock appears to lie near surface. Rock chip sampling in the presently exposed veins and wall rocks should be carried out along with the program of rock chip sampling in the proposed stripped areas.

CERTIFICATE OF THE AUTHOR

I, S. A. Gamble of 7182 Blackwell Road, Kamloops, British Columbia hereby certify that:

- I am a prospector residing at the above address and have held an Ontario Prosprctor's Licence since 1979.
- 2. I am a graduate of the University of Ottawa and have studied earth science for two years at the University of Ottawa and one year at Laurentian University.
- I have more than five years relevant practical 3. experience relating to prospecting.
- 4. I have in consultation with B. G. Cook planned and directed the geochemical work carried out in this report. I have interpreted the results of this survey.
- 5. I hold 50% interest in M. C. 532869.

Respectfully submitted,

June 10, 1984

APPENDIX A. Certificates of Analyses



Bell-White analytical laboratories LTD.

P.O. BOX 187,

HAILEYBURY, ONTARIO

TEL: 672-3107

Certificate of Analysis

B129-84

DATE: February 22, 1984

SAMPLE(S) OF:

Soil (48)

RECEIVED:

February, 1984

SAMPLE(S) FROM:

Mr. B. G. Cook

Sample	No.	Gold/ppb	Sample	No.	Gold, ppb
A-L0	4+005	2	A-L4E	4+005	8
	6+005	5		6+005	16**
	8+005	2 5 3 2		8+005	2 8
	10+005	2		10+005	8
	12+005	11		12+005	11
A-Lide	+005	14	A-L6E	2+005	10
	4+005	8		4+005	19
	6+005	5		6+005	10
	8+005	11		8+005	4
	10+005	18		10+005	22**
	12+005	12		12+005	16
A-L2W	0+50N	7	Possib L4A	<u>ly</u> 2+005*	16
A-L2W	2+005	2	חדת	24005	. 10
N-0211	4+005	2 3	A-L8E	2+005	10
	6+005	12	n-non	4+005	14
	8+005	4		6+005	14
	10+005	8		8+005	11
	12+005	14		10+005	4
	12,003			12+005	12
A-L2E	2+005	7			
	4+005	7	A-BLO	0+005	12
	6+005	5		4+00E	4
	8+005	8		6+00E	15
	10+005	8		8+00E	10
	12+005	11			
	•		A-BLO-	L2W 2+00W	16
	_			2+005	14

* Sample Tag Illegible

** Checked

BELL-WHITE ANALYTICAL LABORATORIES LTD.

IN ACCORDANCE WITH LONG-ESTABLISHED NORTH AMERICAN CUSTOM, UNLESS IT IS SPECIFICALLY STATED OTHERWISE GOLD AND SILVER VALUES REPORTED ON THESE SHEETS HAVE NOT BEEN ADJUSTED TO COMPEN-BATE FOR LOSSES AND GAINS INHERENT IN THE FIRE ASSAY PROCESS.



Bell-White analytical laboratories Ltd.

P.O. BOX 187

HAILEYBURY, ONTARIO
POJ 1KO

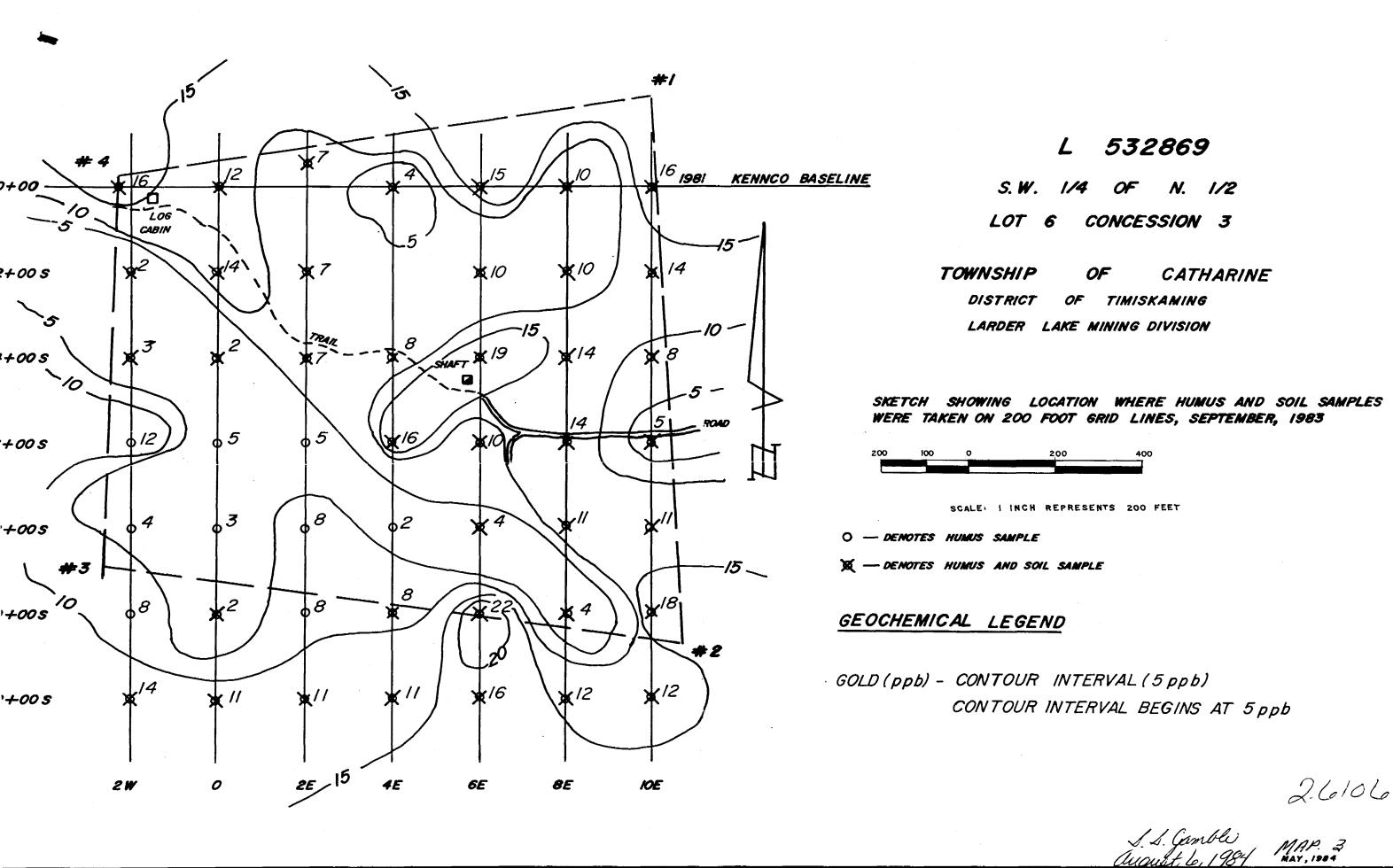
TEL: (705) 672-3107

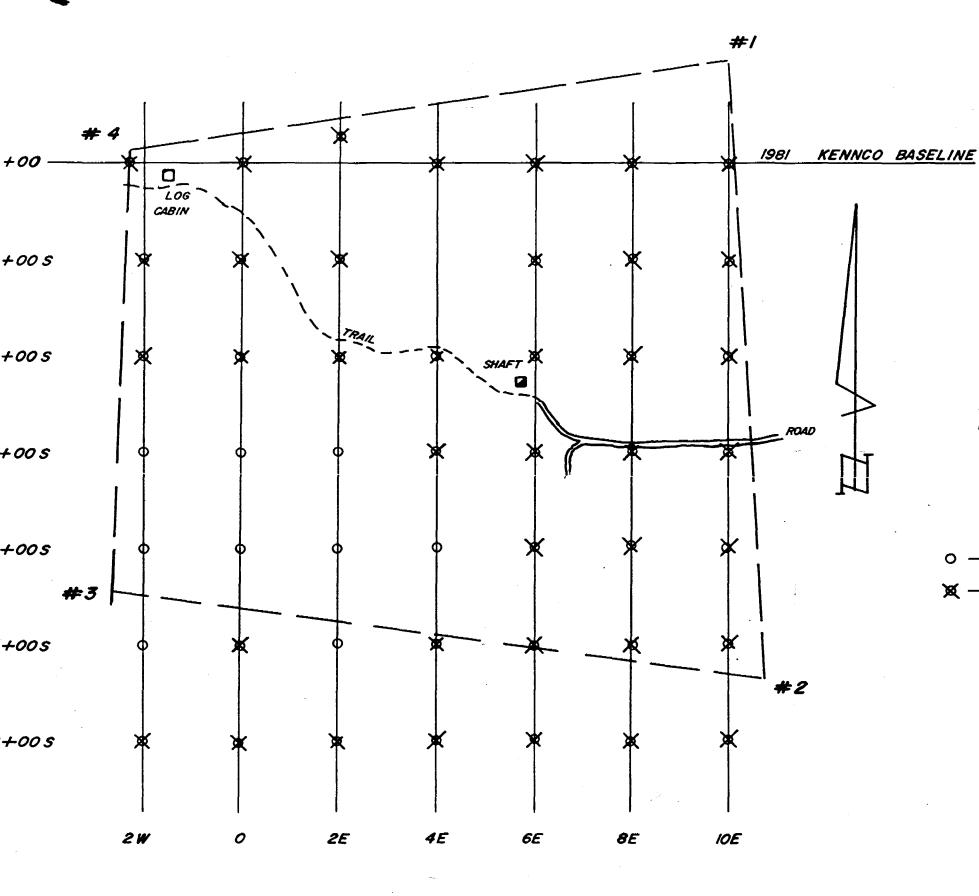
Mr. B. G. Cook KIRKLAND LAKE Ontario INVOICE Nº 15682

ORDER NO.

DATE February 22, 1984

CERTIFICATE NO.	DATE	DESCRIPTION	AMOUNT
B129-84	Feb. 22/84	48 Au, 48 sample preparations	\$ 432.00
		•	





L 532869

S.W. 1/4 OF N. 1/2 LOT 6 CONCESSION 3

TOWNSHIP CATHERINE DISTRICT OF TIMISKAMING LARDER LAKE MINING DIVISION

SKETCH SHOWING LOCATION WHERE HUMUS AND SOIL SAMPLES WERE TAKEN ON 200 FOOT GRID LINES, SEPTEMBER, 1983



SCALE: I INCH REPRESENTS 200 FEET

O - DENOTES HUMUS SAMPLE

M - DENOTES HUMUS AND SOIL SAMPLE

2.6/06. St. Cantho accust 6,1984 MAP 2.



Mini	ng	Lands	Section

File No 2.6/06

Control Sheet

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	Signature of Assessor
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S.A. GAMBLE									
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August 6, 1984

Your file: 2.6106

S. E. Yundt Director Land Management Branch

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

AUG 1 6 1984

MINING LANDS SECTION

Dear Sir:

RE: Geochemical Survey & Data for Assaying submitted on Mining Claim L 532869 in Catharine Township, District of Timiskaming Your file: 2.6106

Enclosed please find copies of the cancelled check to Bell White Lab. Ltd., as well as a receipt from Bell white Analytical Laboratories Ltd. (in duplicate)

For any further information please contact me at the above address, or at 604 - 573 - 3408.

Yours truly,

S.A. Gamble 7182 Blackwell Road

A. Gamble

R. R. # 2 Kamloops, B. C.

V2C 2J3

RECEIVED Lanc Management Branch CIRCUTATE COMMENTS PLEASE BY
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J. A. Gambby 984 august 6,1984 August 6, 1984

Your File: 2.6106

S. E. Yundt Director Land Management Branch

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

Dear Sir:

RE: Geochemical Survey submitted on Mining Claim L 532869 in the Township of Catharine, District of Timiskaming

Please find enclosed the plans (in Duplicate) which have had the scale added, and have been signed.

For any further information please contact me at the above address or phone 604-573-3408.

Yours truly,

S. A. Gamble

R. R. #2

7182 Blackwell Road Kamloops, B. C.

L. A. Gamble

V2C 2J3

RECEIVED

AUG 18 1984

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La de l'anagement Branch

A CATALLA DE L'ANAGE

A CATALL

July 9, 1984

Our File: 2.6106

S.A. Gamble R.R.#2 7182 Blackwell Road Kamloops, B.C. V2C 2J3

Dear Sir:

RE: Geochemical Survey & Data for Assaying

submitted on Mining Claim L 532869 in Catharine Township

In order to complete the above-described submission, please provide, in duplicate, proof of payment (receipts or cancelled chaques) for the \$432.00 expenditure credits claimed.

Please submit this information quoting file 2.6106.

Por further information, please contact Mr. Ray 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 Phone: (416)965-4888

S. Hurst:mc

cc: Mining Recorder

Kirkland Lake, Ontario

Our File: 2.6106 June 21, 1984 S.A. Gamble R.R.#2 7182 Blackwell Road Kamloops, B.C. V2C 2J3 Dear Sir: RE: Geochemical Survey submitted on Mining Claim L 532869 in the Township of Catherine Your letter of June 11, 1984 and attachments have been received. Enclosed again, are the plans (in duplicate). As previously requested, please sign each plan, and show the map scale on each. Please return this material quoting file 2.6106. For further information, please contact Mr. Ray 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 Phone: (416)965-4888 S. Hurst:mc P.S. Returned herein are the cc: Mining Recorder duplicate reports which Kirkland Lake, Ontario you submitted to the Mining Recorder in Kirkland Lake Encl.

File: 2.6106 File: 2.3806

S. A. Gamble R. R. #2
7182 Blackwell Road
Kamloops, British Columbia
V2C 2J3

June 11, 1984

Mr. Arthur Barr Land Management Branch Ministry of Natural Resources Whitney Block, Room 6450 Queen's Park Toronto, Ontario RECEIVED

JUN 19 1984 MINING LANDS SECTION

Re: Geochemical survey of M. C. L 532869

Township of Catharine, District of Timiskaming

Dear Sir;

Please find enclosed a copy of the geochemical report on above stated mining claim. Also enclosed within the report is the Certificate of Analyses, and an invoice from Bell - White Analytical Laboratories Ltd.

A similar copy of the report has been forwarded to the Mining Recorder, Mr. George Koleszar, Kirkland Lake, Ontario.

If I can be of any more assistance to you please contact me at the above address.

Yours truly,

S. A. Gamble
Encl.

c.c. Mr. B. G. Cook Mr. George Koleszar JUN 15 1984

File: 2.6106 File: 2.3806

S. A. Gamble R. R. #2
7182 Blackwell Road
Kamloops, British Columbia
V2C 2J3

June 11, 1984

Mr. Arthur Barr Land Management Branch Ministry of Natural Resources Whitney Block, Room 6450 Queen's Park Toronto, Ontario

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Township of Catharine, District of Timiskaming

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Yours truly,

S. A. Gamble

Encl.

c.c. Mr. B. G. Cook

A Gamble

Mr. George Koleszar

RECEIVED

JUN 1 4 1984

MINING LANDS SECTION

OFFICE USE ONLY



Ministry of Natural Resources

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.

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Total Miles	of Line Cu	t		
	PROVISIO		DAYS	
CREDITS	REQUEST	<u>red</u>	Geophysical per claim	
ENITED A	O days line		Electromagnetic	
1	·0 days (inc ng) for first		-Magnetometer	
survey.	18, 101 11100		-Radiometric	
	0 days for	each	Other	
1	l survey usi		Geological	
same grid.	•		Geochemical 28	·
AIRBORNE	CREDITS	(Special provi	sion credits do not apply to airborne surveys)	In Paris see
			neticRadiometric	DECERTED
Wagneto	1	(enter d	lays per claim)	
DATE.	0022/8	83 SIGNA	ATTION. Soll	
DVIE		810117	Author of Report or Agent	Ming May
			17.5%	
		B.5.	Cook J. 3806	
Res. Geol		Qualif	fications Office Total	·
Previous Sur		D.4-	OL: W-11	
File No.	Туре	Date	Claim Holder	LARDER LAKE
	••••••			REGEIVED
	•••••••			NOV 221983

				7 18 19 110 11 112 1 1 2 13 14 15 is.
				TOTAL CLAIMS
1				TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

Number of Stations ______Number of Readings _____ Station interval ______Line spacing _____ Profile scale _____ Contour interval _____ Instrument _____ Accuracy - Scale constant _____ Diurnal correction method _____ Base Station check-in interval (hours) Base Station location and value _____ Instrument _____ ELECTROMAGNETIC Coil configuration _____ Coil separation _____ Accuracy _____ ☐ Fixed transmitter Shoot back In line ☐ Parallel line Method: Frequency_____ (specify V.L.F. station) Parameters measured_____ Instrument ____ Scale constant Corrections made Base station value and location _____ Elevation accuracy ______ Instrument _____ ☐ Frequency Domain Parameters - On time ______ Frequency _____ - Off time ______ Range ____ RESISTIVITY - Delay time _____ - Integration time _____ Power ____ Electrode array Electrode spacing Type of electrode _____

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

INDUCED POLARIZATION

SELF POTENTIAL		
Instrument		Range
Survey Method		_
<u></u>		
Corrections made		
RADIOMETRIC		
Instrument		
Values measured		
Energy windows (levels)		
Height of instrument	Backgr	ound Count
Size of detector		
Overburden		
	(type, depth - include outcrop map)	
OTHERS (SEISMIC, DRILL WEL	L LOGGING ETC.)	
Type of survey	,	
Instrument		
Accuracy		
Parameters measured		
Additional information (for under	standing results)	
<u>AIRBORNE SURVEYS</u>		
Type of survey(s)		
Instrument(s)	(specify for each type of survey)	
Accuracy	(specify for each type of survey)	
Navigation and flight path recover	y method	
Aircraft altitude	Line S	ageina
		aims only
mines nown over total area	Over u	anns omy

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken	L 3 3 2 0 6 7	
Total Number of Samples 48 Homes & 39 Soil		<u>)S</u>
Type of Sample (Nature of Material) Average Sample Weight 216 BEFORE DEYING	Values expressed in: per cent p. p. m. p. p. b.	
Method of Collection By SHOUEL, GRUB HOE EHANDS AT POINTS ON GRID LINES	Cu, Pb, Zn, Ni, Co, Ag, Mo,	•
Soil Horizon Sampled B Horizon Development Sample Depth Hours From 1/2" to 6"	OthersField Analysis (tests
Terrain UARY FROM Kock OUTCROP	Extraction MethodAnalytical Method	
Drainage Development Plausing South WEST	Reagents UsedField Laboratory Analysis	
Estimated Range of Overburden Thickness	No. (Extraction Method	
NOT PERFORMED YET -	Analytical MethodReagents Used	
SAMPLE PREPARATION (Includes drying, screening, crushing, ashing)	Commercial Laboratory (
Mesh size of fraction used for analysis	Extraction Method	
	Reagents Used.	
General	General	

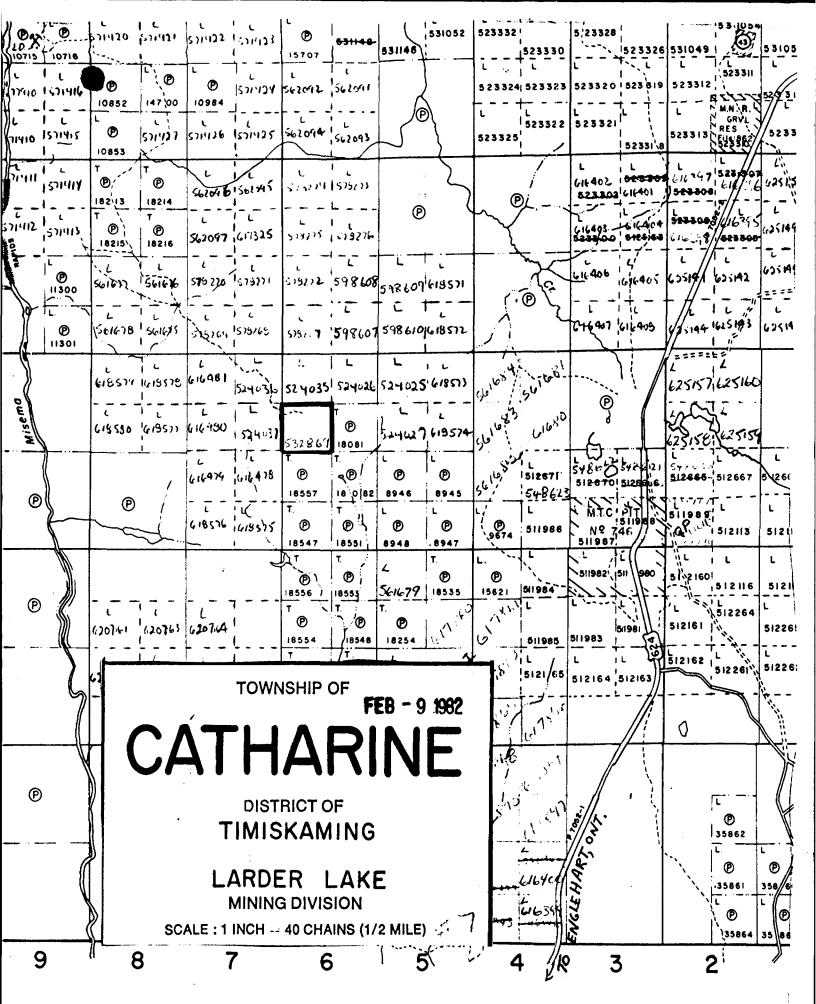
Details of Assessment Work Breakdown

FIELD WORK			
Type of Work	Name & Address	Dates Worked	Number of 8 hour days
Field sampling	B. G. Cook, 6 Wrigh	t_HargreavesSept5_8	2-17/832
Field sampling	David Jones, 4 Wrig	ht. Hargreaves, Sept. 17	th/83 1
Field sampling.	James Cook, . 6 Wrig	ht_Hargreaves,_Sept17	2.th/83 1
Field sampling	.Robert Cook. 6 Wrig	bt_Hargreaves,_Sept5t	:h/_831
CONSULTANTS			
Name & Address	Dates Worked (specif	y in field or office)	Number of 8 hour days
	•••••		
DRAUGHTSMAN, TYPING,	OTHERS (specify)		
Name & Address	Type of Work	Dates Worked	Number of 8 hour days
B G Cook, - 6 - Wr	ight Hargreaves - Dra	ughtingNov5th-&-19	
S. A. Gamble, R.	R. 2, Kamloops, B.C.,	May 6,7,8, & June 11	<u>& 10/84 5</u>
Bell White Analy	tical Lab.Ltd., Hail	eybury,Ont. Feb.,/84	4
		TOTAL 8 HOUR TECHNICAL	. DAYS14
LINE-CUTTING			
Name	Address	Dates Worked	Number of 8 hour days
Robert-Cook		: .	
			1 total
BGCook			
David Jones	11	***************************************	

~~~~~~~~~~	•••••		
		TOTAL 8 HOUR LINE-CUTTING	G DAYS1

# Details of Assessment Work Breakdown

FIELD WORK			
Type of Work N	lame & Address	Dates Worked	Number of 8 hour days
Field sampling B. G	Cook, 6 Wright	t_HargreavesSept5	-&-17/832
Field samplingDavi	d_Jones,_4_Wrigh	nt Hargreaves, Sept.	17th/83 <del>1</del>
Field sampling Jame	s_Cook,6_Wrigh	ot_Hargreaves,_Sept	17_th/83 <del>1</del>
Field sampling Robe	rt_Cook6_Wrigh	ht Hargreaves, Sept.	5th/_831
***************************************			
CONSULTANTS			
Name & Address Da	ites Worked (specif	y in field or office)	Number of 8 hour days
. ,			
***************************************			
DRAUGHTSMAN, TYPING, OTHER	<pre> ⟨S (specify) </pre>		
Name & Address	Type of Work	Dates Worked	Number of 8 hour days
BG. Cook, 6-Wright	Hargreaves - Drai	ughtingNov5th-&-	19-4831
S. A. Gamble, R.R. 2,	Kamloops, B.C.,	May 6,7,8, & June 1	1 & 10/84 5
Bell White Analytical	Lab.Ltd., Haile	eybury, Ont. Feb., /84	4
		TOTAL 8 HOUR TECHNIC	AL DAYS14
LINE-CUTTING			
Name Addre	288 288	Dates Worked	Number of 8 hour days
-Robert-Cookas-a	beve		
James Cook			1 total
BGCook	.11		
David Jones!			
***************************************			
***************************************			
		TOTAL 8 HOUR LINE-CUTTI	NG DAYS1



MARTER TP M. 543

MAP 1. LOCATION AND ACCESS.

# REGISTERED

June 5, 1984

File: 2.6106

R.G. Cook 6 Wright Hargreaves Avenue Kirkland Lake, Ontario P2N 1B2

Dear Sir:

RE: Geochemical Survey submitted on Mining Claim

L 532869 in the Township of Catherine

Enclosed is a copy of our letter dated December 14, 1983 requesting additional information for the above-described survey.

Unless you can provide the required data by June 20, 1984, the mining recorder will be directed to cancel the work credits recorded on September 23, 1983.

For further information, please contact Mr. Ray 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 Phone: (416)965-4888

S. Hurst:mc

cc: Mining Recorder

Kirkland Lake, Ontario

Encl.

December 14, 1983

Your File: #278

Our File: 2.6106

R.G. Cook 6 Wright Hargreaves Avenue Kirkland Lake, Ontario P2N 1B2

Dear Sir:

RE: Geochemical Survey submitted on Mining Claim

L 532869 in the Township of Catherine

Enclosed is the plan, in duplicate, for the above-mentioned survey. Please sign the maps, show the assay results, indicate the map scale and return them to this office.

In addition, please provide a signed report, in duplicate, discussing the results obtained and conclusions. We also require a man-days breakdown listing the names and addresses of the employees and the dates that each man worked on the various phases of the survey. The survey will then be assessed under the provisions of **Sub-Section** (12) of Section 77 of the Mining Act R.S.O. 1980.

For further information, please contact Mr. F.W. Matthews at (416)965-1380.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

D. Kinvig:mc

Encls:

cc: S.A. Gamble P.O. Box 117 Swastika, Ontario POK 1TO cc: Mining Recorder
Kirkland Lake, Ontario

1983 12 14

Your File: #278

Our File: 2.6106

Mr. George J. Koleszar Mining Recorder Ministry of Natural Resources 4 Government Road East P.O. Box 984 Kirkland Lake, Ontario P2N 1A2

Dear Sir:

We have received maps for a Geochemical survey submitted on mining claim L 532869 on the Township of Catherine.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson Director Land Management Branch

Whitney Block, Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: (416)965-1380

## A. Barr:mc

cc: R.G. Cook

6 Wright Hargreaves Avenue Kirkland Lake, Ontario P2N 1B2

cc: S.A. Gamble P.O. Box 117 Swastika, Ontario POK 1TO

Initial Check	Dec. 19,83 Mary Elle Anderson
Assessed	
Approved Reports of Work sent out	
Notice of Intent filed	
Approval after Notice of Intent sent out	**************************************
Duplicate sent to Resident Geologist	
Duplicate sent to A.F.R.O.	