

COPCONDA-YORK RESOURCES INC.

GEOPHYSICAL SURVEYS

ON THE

ST.ANTHONY GROUP & COUTURE LAKE GROUP

STURGEON LAKE AREA

ONTARIO

December 30, 1983.

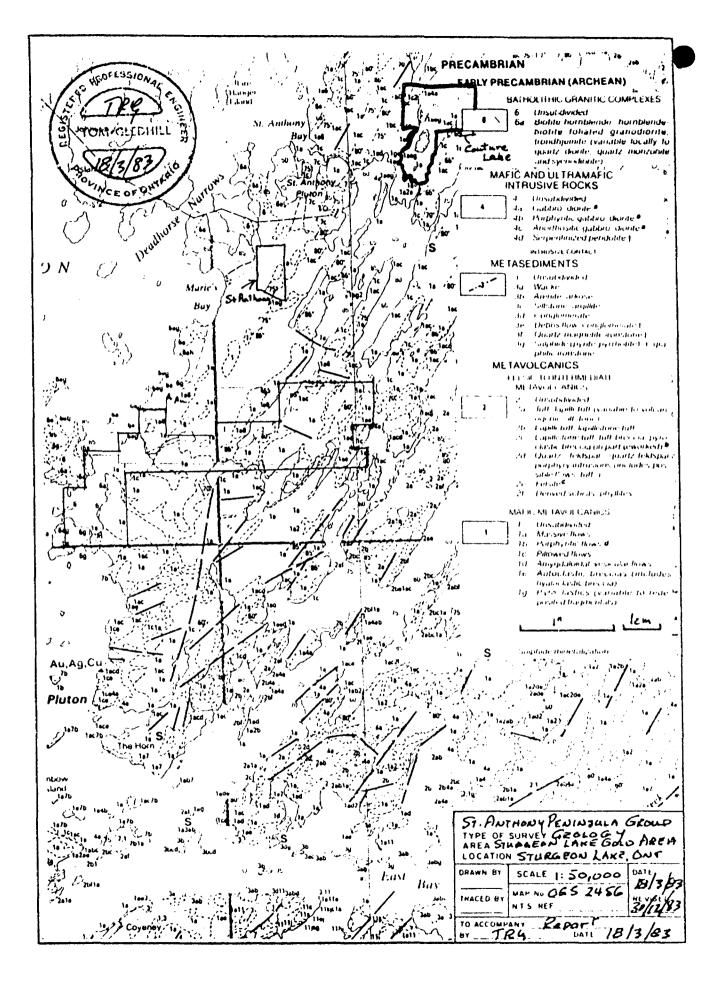
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MINING LANDS SECTION

2.6493

Tom Gledhill, B.A., P.Eng.



Copconda-York Resources Inc.

Geophysical Surveys

on the

St.Anthony Group and Couture Lake Group
Sturgeon Lake Area

Ontario

SUMMARY

Geophysical surveys were carried out over each of the claim groups. The magnetics confirm the interpreted geology. On the St.Anthony group a VLF conductor occurs along the granite/volcanic contact, the loci for gold deposits in the area. The Couture Lake Group contains 4 VLF conductive zones.

The results on the St.Anthony Group are encouraging and mapping and trenching are recommended. Further mapping is recommended on the Couture Lake Group.



Jon Glidbill

I. INTRODUCTION

Geophysical surveys were carried on the two claim groups southwest and northeast of the St.Anthony gold mine. Magnetic and VLF-EM surveys covered the groups and a single drill hole was drilled in the southern most claim of the Conture Lake group. The results of this work are discussed in this report.

II. PROPERTY, LOCATION AND ACCESS

St.Anthony Group. Two patented claims TB10627 and TB20189 are located 1/2 mile southwest of the St.Anthony mine in the northwest portion of Sturgeon Lake. Access is by bush road drom the St.Anthony property or by bush aircraft from Ignace to Marie's Bay on Sturgeon Lake, 1/4 mile southwest.

Couture Lake Group. This group comprises six contiguous unpatented claims:

Pa640200, 640201, 640202 and 640303 Pa612460 and 612461

It is located in a bay on Couture Lake about 3/4 of a mile from the St.Anthony mine. Access is by bush plane from Ignace to Couture Lake.

III. GEOLOGY

St.Anthony Group lies on the volcanic/granite contact, the location of most of the gold occurrances.

Couture Lake Group lies within the mafic volcanics mapped as massive flows, breccias and pyroclastics.

IV. SURVEY INSTRUMENTS AND PROCEDURES

A Geonics EM-16 unit was used for the survey with NAA Cutler, Maine (17.8 Khz). Readings were taken of the in-phase and quadrature component. The in-phase and quadrature have been plotted as profiles.

The total field magnetic survey was carried out with a Geonics C-816 proton magnetometer. Measurements were recorded to the nearest gamma and corrected for diurnal drift with a series of closed loops.

V. DISCUSSION OF RESULTS

St.Anthony Group

A VLF conductor, A, strikes northeast and parallels the interpreted granite/volcanic contact.

The magnetic pattern reflects the approximate location

of the contact lying just west of the baseline. It is along this contact that most of the gold in the area occurs.

Couture Lake Group

The magnetic map shows a pattern that conforms to the Lake and the mapped strike of the volcanics. Several of the magnetic features have a flanking VLF-EM conductor.

The VLF-EM zones all parallel the baseline.

Zone B and B^1 lie on the west flank of a magnetic band between L0 and L20N.

Zone C - this zone is not well defined and may cut the formations at a low angle.

Zone D is similar to Zone C and occurs along the same magnetic feature. It lacks good definition.

Zone E lies on the west shore and in coincidence with a broad magnetic feature. This zone appears to have two parallel conductors within it.

VI. CONCLUSIONS AND RECOMMENDATIONS

The St.Anthony group has a single conductive zone. This zone should be trenched and sampled.

Mapping and other exploration work should be carried

out as soon as the weather permits.

The Couture Lake Group

There are 4 conductive zones outlined on the survey grid. The magnetics are characteristic of such a volcanic terrain. The single drill hole indicates the volcanics are intruded by acidic dykes that may be related to the granite pluton.

Mapping and prospecting should be conducted in the early spring. If drilling is recommended, most of it will have to be carried out during the winter.

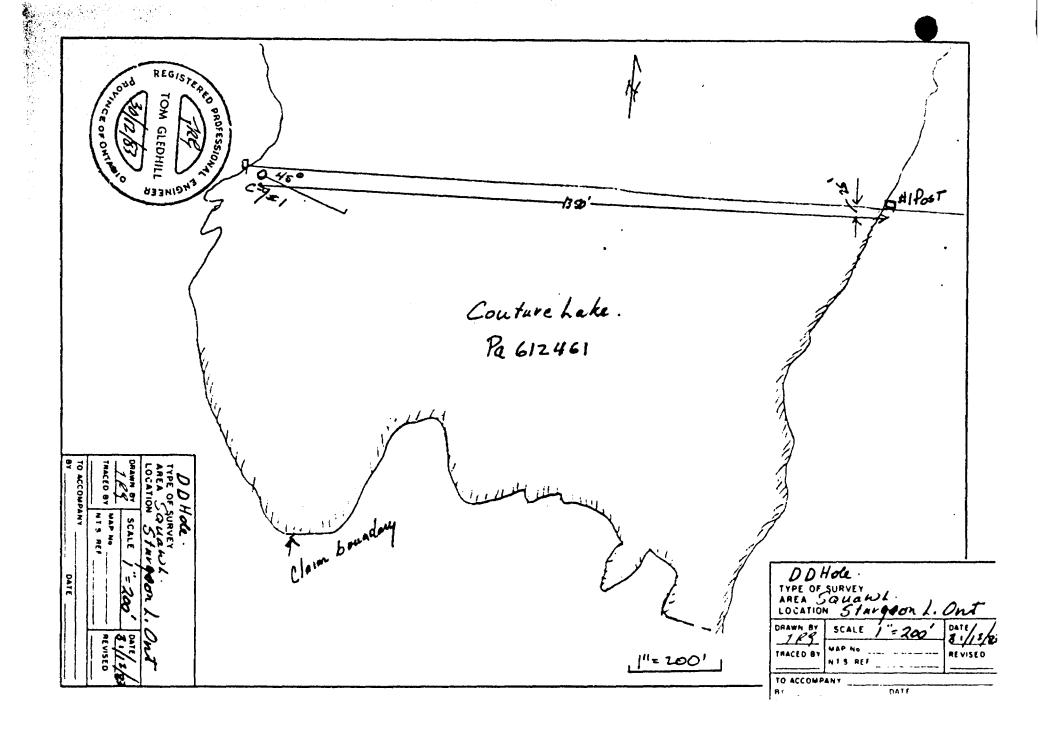
Respectfully submitted,

Tom Slidhell Tom Gledhill, B.A., P.Eng.

December 30, 1983.



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S2J02SE2101 52J02SE0069 SQUAW LAKE



837 (5/79)



Ministry of Natural Resources

File_____

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) Seinthysein!	
Township or Area Squaw hahe asse	MINING CLAIMS TRAVERSED
Claim Holder(s) Concorda - Girle Regources Atd.	List numerically
Survey Company Stestill Consistent In	Pa 612460
Author of Report Jone Caledhill	(prefix) (number) 6(2461
Address of Author 21 Sondalwood Place Don hill	640200
Covering Dates of Survey 30/3/83 -> 31/12/83ut	
/ (linecutting to office)	640201
Total Miles of Line Cut	640202
SPECIAL PROVISIONS CREDITS REQUESTED Geophysical DAYS per claim	640203
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ENTER 20 days for each —Other	
additional survey using Geological	RECEIVED
same grid. Geochemical	1. C.
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DATE: Mark a 84 SIGNATURE: John Schlick	IS SECTION
Res. Geol. Qualifications 63, 1085	
Previous Surveys	
File No. Type Date Claim Holder	
	••••••
	TOTAL CLAIMS

GEOPHYSICAL TECHNICAL DATA

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

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Ministry of Natural Resources

Report of Work

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Our File: 2.6493

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Mining Recorder
Hinistry of Natural Resources
P.O. Box 669
Sloux Lookout, Ontario
POV 210

Dear Sir:

We have received reports and maps for a Geophysical (Electromagnetic and Magnetometer) survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims PA 612460 et al in the Area of Squaw Lake.

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

We do not have a cppy of the report of work which is normally filed with you prior to the submission of this technical data. Please forward a copy as soon as possible.

Yours sincerely.

S.E. Yundt Director Land Management Branch

Whitney Block Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-6918

A. Barr:dg

cc: Copconda York Resources Inc. 4701 No. 7 Highway Unionville, Ontario L3R 1M7

cc: Gledhill Consultants Inc. 21 Sandalwood Place Don Mills, Ontario M3B 1L5

SEE ACCOMPANYING MAP(S) IDENTIFIED AS

525/02SE-0069 # 1-2

LOCATED IN THE MAP CHANNEL IN THE FOLLOWING SEQUENCE

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