

REPORT ON THE

AIRBORNE GEOPHYSICAL SURVEY

ON THE PROPERTY OF

RARETECH MINERALS INC.

SWAYZE TOWNSHIP, ONTARIO

BY

### H. FERDERBER GEOPHYSICS LTD. RECEIVED

SEP 2 1 1987

MINING LANDS SECTION

August, 1987 Val d'Or, Quebec G.N. Henriksen, B.Sc. Geologist

Qual. 2.10/36

# REPORT ON THE AIRBORNE GEOPHYSICAL SURVEY ON THE PROPERTY OF RARETECH MINERALS INC. SWAYZE TOWNSHIP, ONTARIO

#### INTRODUCTION

On July 26, 1987 an airborne geophysical survey was carried out on the property of Raretech Minerals Inc. in Swayze Township, Ontario.

Magnetic and VLF-electromagnetic data was collected by the airborne division of H. Ferderber Geophysics Ltd. The survey was flown from a base at Chapleau, Ontario. A total of 28.7 miles of data was collected.

The magnetic survey provides information which helps define underlying geological structures and identifies any potential economic concentrations from variations in accessory magnetic minerals. The VLF-electromagnetic survey outlines conductive zones which may represent shear zones and/or metallic sulphide deposits containing gold mineralization.

#### PROPERTY DESCRIPTION, LOCATION AND ACCESS

The Raretech Minerals Inc. property is comprised of 24 claims in Swayze Township, Porcupine Mining Division, Ontario. The claims cover approximately 384 hectares in the north central part of the township, registered with the Ontario Mining Recorder's office at Timmins and are listed in Appendix 1.

The property is located approximately 57 km (34 miles) east of the town of Chapleau, 50 km (30 miles) south-southeast of the town of Foleyet and 28 km (17 miles) north of the village of Sultan.

Access can be obtained by taking a float/ski plane from Chapleau to the northwest corner of Brett Lake, which lies along the southern boundary of the property.

#### GEOLOGY

The Ontario Department of Mines Geological Compilation Map 2116 Chapleau-Foleyet Cheet indicates the northwestern two thirds of the property is underlain by intermediate and basic volcanic rocks. About 60% of southeastern third is underlain by metasedimentary rocks of the greenschist facies. The metasedimentary rocks are situated in the south central part of the claim block and the west central part of the claim block.

A north-northwest trending sinstral fault traverses the property from the middle of the southern boundary to the northwest corner of the property. It shows a displacement of about 0.5 miles.

Two gold occurrences lie along strike of the fault approximately 2 miles and 3 miles north of the property. The Kenty gold prospect lies about 2.25 miles east of the northeastern part of the property, along strike of the geology. The prospect area is underlain by an east-striking belt of folded Early Precambrian mafic and felsic metavolcanics, with small interbedded lenticular bodies of clastic metasediments. The principal occurrences lie within massive andesite and schistose felsic metavolcanics close to a large body of feldspar porphyry.

The gold deposit consists of a series of parrallel fracture filling quartz-carbonate veins in an altered host rock which can be mafic or felsic lave, or felspar porphyry. strike of the veins is N60°E, and dips range from 40-80°SE. The veins average 4 to 5 feet in width; the maximum width is 10 feet. Each consists of a main quartz leader with subsidiary parallel veinlets on either side. Mineralization consist of pyrite and minor galena, chalcopyrite, sphalerite, specularite, and graphite. Coarse visible gold occurs in fractures in the vein quartz. Development work indicated that the best values occur where the host rock is "greenstone". Two grab samples of mineralized vein material from a much pile near Shaft No. 1 assayed 0.16 and 0.19 ounce of Au per ton. Channel sampling on surface indicated that an ore shoot on suface indicated that an ore shoot on the No.1 Vein, measuring 6.3 feet in width and 50 feet in length, averaged 0.39 ounce of Au per ton. A second ore shoot, located to the east of the first and measuring 3.7 feet in width by 72 feet in length, averaged 0.67 ounce of Au per ton.

The McNeely-McCullogh gold prospect lies about 2.25 miles east along strike, of the central part of the west side of the property. The prospect area in underlain by an east-striking fold belt consisting of Early Precambrian mafic to felsic metavolcanics and small amounts of interbedded metasediments. The showings consist mainly of narrow quartz-carbonate veins and stringers. These occupy fracture zones along the north edge of a feldspar porphyry body which is considered to be phase of the felsic volcanic suite. Some of these showings reportedly gave moderately low gold values over narrow widths.

#### INSTRUMENTATION AND SURVEY METHODS

The survey was completed using a Cessna 172, fixed wing aircraft (CF-AAV) owned and operated by H. Ferderber Geophysics Ltd. It was piloted by P. Jevremovic of Val d'Or. The navigator/operator was M. Caron, also from Val d'Or. Geophysical sensors were mounted in modified wing tips. GEM-GSM-9 BA Overhauser Proton Precession Magnetometer and Herz Totem 2AG VLF-electromagnetic systems were used. The magnetometer has a resolution of 0.5 gammas, recorded on analogue tape. The VLF-EM measures the change in total field and vertical quadrature field on two channels simultaneously, with an accuracy of 1%. The data is then transferred to a printer. The transmitting station at Cutler, Maine, NAA, frequency 24.0 kiloherz was used.

The survey was conducted at an aircraft altitude of 250 feet above ground level. The altitude was measured with a Bonzer Mark 10 radar altimeter. A survey speed of approximately 100 miles per hour was used. Navigation was visual with reference to air photo mosaics at a scale of one inch to 1,320 feet. Lines flown in north-south directions at spacings of 440 feet were recovered from the photo mosaics. Manual fiducials were recorded simultaneously on the geophysical tapes and solid state memory.

#### DATA PRESENTATION

Flight lines, fiducial points and geophysical responses were reproduced from the air photo mosaics on maps at a scale of 1:15,840 (one inch to 1,320 feet). The outline of the claim group and claim map are shown on each sheet.

The aeromagnetic data was corrected for diurnal variations by using base lines as reference. The data was then reduced to a base level of 58,500 gammas, contoured at 25,100 and 1000 gamma intervals and presented on map MG-1.

The VLF-EM data was transferred from the Totem 2AG memory to printed form. Base values were determined and the change in the total field strength as a percentage of the base values was calculated. These values were plotted on map EM-1. The positive values were contoured at intervals of 2%. The conductor axes were determined and numbered 1, 2, 3, etc. No priority was attached to the numbering system.

#### SURVEY RESULTS AND INTERPRETATION

#### Magnetic Survey Map MG-1

A prominent magnetic high anomalous zone in the north part of the claim block trends east-west and has magnetic values up to 1300 gammas above background. A similar magnetic high anomalous zone lies in the southwest corner of the property.

A magnetic low anomalous zone lies between the two high anomalous zones trends northwest, traversing the property from the central part of the southern boundary towards its northwestern corner. The magnetic high anomalous zones probably represent basic volcanic rocks and the magnetic low northwest trending anomalous zone coincides roughly with the assumed underlying fault. The magnetic low anomalous zone in the southeast corner and between the two prominent magnetic high anomalous zone may represent acid volcanic rocks and/or metasedimentary rocks. A saddle in the northern magnetic high anomalous zone on the eastern side of the property may outline the location of a north-south trending structural break.

#### VLF-Electromagnetic Survey Map EM-1

Conductive zone 1 is a discontinuous, east-west trending conductor located in the west central part of the property. It crosscuts magnetic contours and lies near a lineament defined by a chain of small lakes.

Conductive zone 2 is a long, continuous, northwest trending conductor on the west side of the property. It lies along the western side of a northwest trending magnetic low anomalous zone and the west side of a lineament defined by two lakes and a stream. It may represent a structural break, possibly a shear zone.

Conductive zone 3 is a long, continuous, northwest trending conductor located in the central part of the property. It is similar to conductor 2, lying along the eastern side of a northwest trending magnetic anomalous zone and may represent a structural break, possibly a shear zone.

Conductive zone 4 is a discontinous conductor situated in the southwest corner of the claim block. It is located over in a zone of low magnetic anomalous values and coincides with part of a lake.

Conductor zone 5 is a long, continuous, east-west trending conductor in the central east part of the property. It lies along the southern shoulder of a magnetic high anomalous zone and may represent a geological contact.

Conductive zones 1 and 4 may represent conductors along geologic contacts however they may also be the result of electromagnetic gathering due to feature such as lakes, streams ridges etc.

#### CONCLUSIONS

The airborne VLF-electomagnetic and magnetic surveys were successful in outlining possible shear zones and helping define the underlying geology on the Raretech Minerals Inc. property in Swayze Township, Ontario.

Rocks of high magnetic susceptability underlie the north part of the property, striking east-west. Rock of similar magnetic susceptability underlie the southwest corner of the property. These rocks are thought to be basic volcanic rocks. The rocks of low magnetic susceptability that underlie the southeast and central west part of the property may be acid volcanics and/or metasedimentary rocks.

A northwest trending linear magnetic low anomalous zone on the western half of the property is located near a presumed fault.

A saddle in the northern magnetic high anomalous zone may represent a north-south trending structural break.

Five conductive zone were outlined on the property. Of the conductive zones, zones 2, 3, and 5 appear to represent bedrock conductors. Conductive zones 2 and 3 may represent structural breaks, possibly shears.

Conductive zones may represent a conductor along a geologic contact.

#### RECOMMENDATIONS

Further work is warranted on the property especially in the areas of the above mentioned conductors and the presumed fault. An exploration program of ground geophysics and geological maping should be undertaken. A combined vertical gradient/total magnetic survey and horizontal loop-electromagnetic survey should be performed, followed by an induced polarization survey over selected conductors and the pressumed fault.

Potentially interesting geological targets and geophysical anomalies should then be tested by diamond drilling.

Respectfully submitted,

H. FERDERBER GEOPHYSICS LTD.

Howh-

G.N. Henriksen, B.Sc. Geologist

#### APPENDIX I

#### Claim List

P 894561



#### Ministry of Northern Development and Mines

## Geophysical-Geological-Geochemical Technical Data Statement

File	
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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.

1	<del></del>			
Type of Sur	rvey(s)A:	irborne M	Magnetic and VLF-Electro	omagnetic
Township o	r Area <u>S</u>	wayze Twp	),	– MINING CLAIMS TRAVERSED
Claim Holder(s) Raretech Minerals Inc.			List numerically	
Survey Com	npany <u>H</u>	. Ferderb	er Geophysics LTD.	
Author of F	ReportG	.N. Henri	ksen	(prefix) (number)  - see attached appendix
Address of	Author	69 Perrea	ault Ave. Val D'OR, Qué	
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	LI	rown	(linecutting to office)	
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survey.	<b>.</b>		-Radiometric	
ENTER 2	0 days for	each	-Other	
<b>add</b> itional	l survey usi	ng	Geological	
same grid.	•		Geochemical	
AIRRORNE	CREDITS	/Special provision	on credits do not apply to airborne surveys)	
		- Electromagno	etic <u>35</u> Radiometric	
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OFFICE USE ONLY

SELF POTENTIAL		
Instrument		Range
Survey Method		
Corrections made		
RADIOMETRIC		
· ·		Background Count
Overburden	ftv	pe, depth — include outcrop map)
OTHERS (SEISMIC, DRILL	L WELL LOGGIN	G ETC.)
Type of survey		
Instrument		
Accuracy		
Parameters measured		
Additional information (for	understanding res	ults)
AIRBORNE SURVEYS		
Type of survey(s)	VLF-EM an	nd Magnetometer
Instrument(s)		em 2AG and GEM GSM-9BA
, ,	1% and $0$ .	egify for each type of survey) 5 gammas
Accuracy		ecify for each type of survey)
Aircraft used	Cessna 17	72
Sensor altitude	250 Feet	
Navigation and flight path re	covery method_	Visual navigation on airphoto-masaic
,		manual fiducial points
Aircraft altitude	250 Feet	Line Spacing 440 Feet
Miles flown over total area_	128.3	Over claims only 21.1

#### APPENDIX I

#### Claim List

P



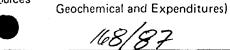
E

Ministry of Natural Resources

Report of Work (Geophysical, Geological,

16



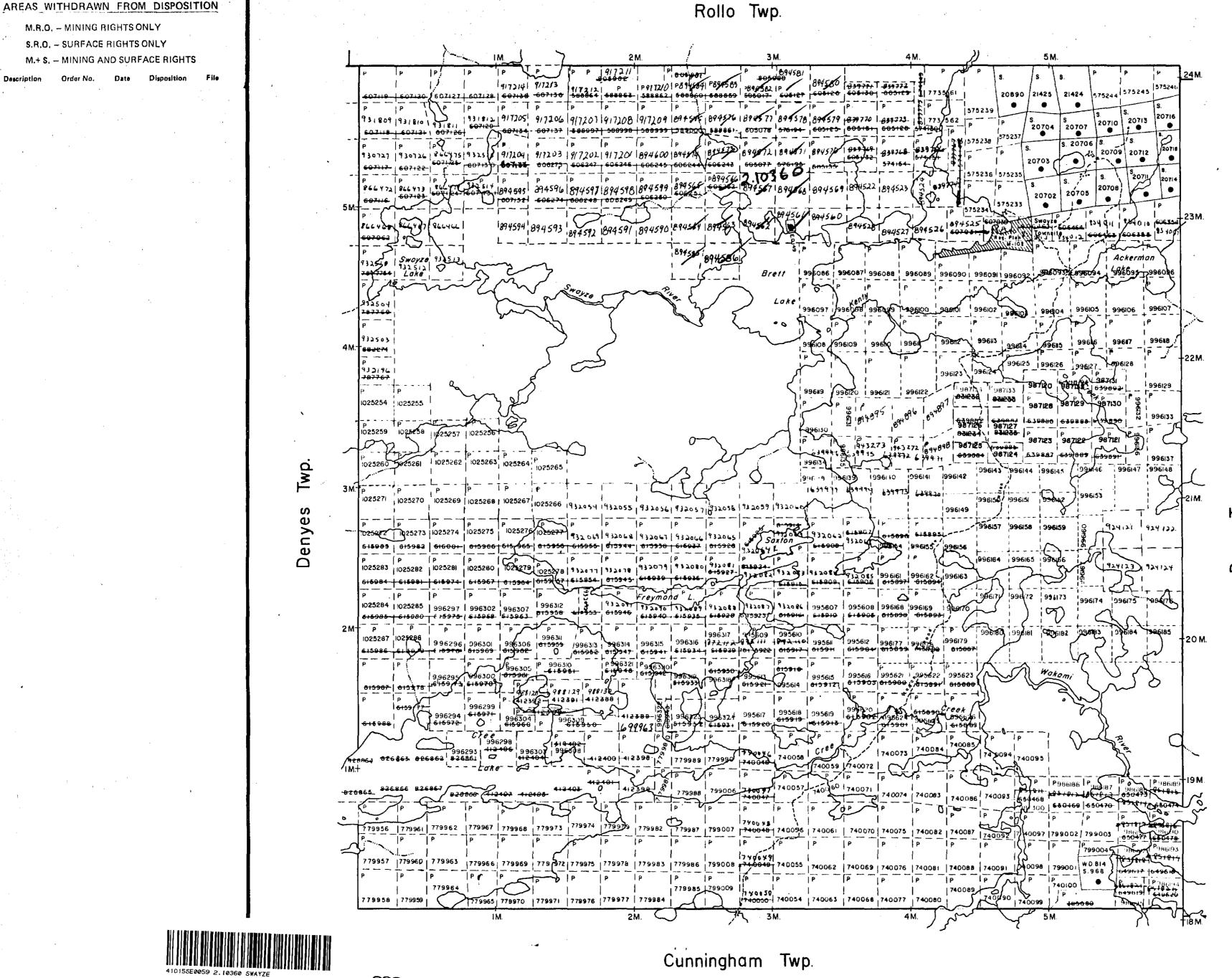


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R. Campbell, 16 Credits Requested per Each	Claim in Columns at r	ight		laims Traversed		erical sequi	ence)	
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	- Other				-			_
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•	Geological			894574				
	Geochemical			894575				
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Note: Special provisions	Electromagnetic	30		894577		<del>                                     </del>	OBDE	
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I hereby certify that I have a or witnessed same during and					t of Work ann	exed hereto,	having performed	the work
Name and Postal Address of Pos		und the attr	icaca report is			· · · · · · · · · · · · · · · · · · ·	<u> </u>	And the second of the second of

Sudbury, Ontario, P3A IC9

July 28/87

David W. Constable-Constable Consultants Inc., 10 Kingston Court,
Date Certified Certi Certifled by (Signature)



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HIGHWAY AND ROUTE No.	-0-
OTHER ROADS	
TRAILS	
SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC.	· <del></del>
LOTS, MINING CLAIMS, PARCELS,	ETC.
UNSURVEYED LINES:	
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REFERENCES



# **LEGEND**

TOTAL FIELD CONTOUR INTERVAL 2 %
CONDUCTOR AXIS

O FIDUCIAL POINT

> LINE DIRECTION

STATION USED: CUTLER, MAINE, USA. (N.A.A. 24.0 kHz.)

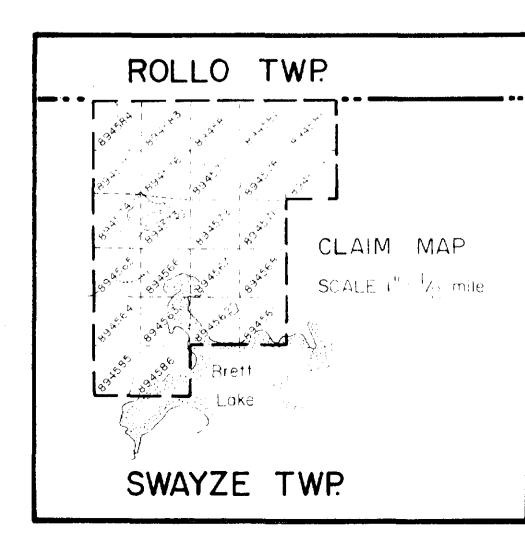
LESS THAN ZERO

**1**0%, 20%, 30%

2%

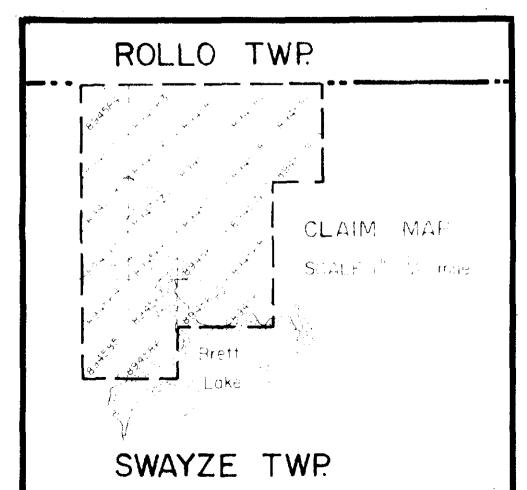
\_ < 0%





AIRBORNE V.L.FEM SURVEY  CLIENT  RARETECH MINERALS INC.  2.10360					
H. Ferderber Geop	<b>j</b> .	'= '/4 mile	AUGUST 198  MAP OR SHEET NO  EN	37 <b>M-1</b>	





## LEGEND

TOTAL FIELD CONTOUR INTERVAL 25 GAMMAS

- O FIDUCIAL POINT
- > LINE DIRECTION

  BASE VALUE 58500 GAMMAS

MAGNETIC LOW

- 1000 GAMMAS

100 GAMMAS

\_\_\_ 25 GAMMAS

AIRBORNE MAGNETIC SURVEY  RARETECH MINERALS INC.  2,10360				
H. Ferderber Geophysics Ltd.	SCALE I"= 1/4 mile	AUGUST 1987		
H. Ferderber Geophysics Ltd.	DRAWN BY D. M.	MAP OR SHEET NO MG-1		