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#### GEOPHYSICAL REPORT

on the

## ROLLO TOWNSHIP PROPERTY, PORCUPINE MINING DISTRICT

for

KENTY RESOURCES LIMITED

by: Rayan Exploration Ltd North Bay, Ontario February, 1984

Meihle R.J. Meikle

DECONVES.

MARKING LANDAL CARA LAN

Figure 1	Location Map
Figure 2	Area Location Map
Figure 3	Township Location Map

LIST OF MAPS

Map No 1

I.P. Chargeability

Map No 2

I.P. Resistivity

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## 1. INTRODUCTION

An Induced Polarization survey was carried out in December 1983 and January 1984 for <u>Kenty Resources Ltd</u> on their <u>Rollo Township</u> property in the "Swaze" area, Porcupine Mining Division.

The purpose of the survey was to detect the presence of sulphides which could contain gold. The survey would also outline any minor or disseminated sulphides which would not be detected by conventional E.M. methods. The property is located approximately 42 km southeast of the town of Foleyet, Porcupine Mining District, Ontario. The work was performed on the eastern part of the property in the SE corner of Rollo township which consists of 24 contiguous mining claims numbered as follows: P. 672421 - 427 inclusive; P. 650398 - 410 inclusive, and P. 575240 -243 inclusive. No attempt was made by Rayan to substantiate the claim locations as shown on the geology map. (see Geology Report)

Access to the property is via a summer road running south from the Orifino mine to the old Kenty Gold Mine. Winter access is via snowmobile or the above mentioned road.



FIG.: I

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FIG:2

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FIG:3

The following personnel were directly involved with the Induced Polarization Survey:

R.J. Meikle	North Bay, Ontario
B.P. Belanger	North Bay, Ontario
J. Starszyk	North Bay, Ontario
T. Howards	North Bay, Ontario
M. Sigouin	North Bay, Ontario
S. Anderson	North Bay, Ontario

#### 4. GEOLOGY

The geology of the area was done by R.J. Graham. It consists of Mafic volcanics with pillow lava and tuff in the Northern half of the sheet; Bedded sediments (Argilite) in the central portion of the grid running EW and additional mafic vocanics in the Southern portion. There is also an area of rhyolite in the eastern portion between the baseline and 300S.

The sediments, where exposed, are banded and have a general E-W strike and south dip. These appear to be interbedded with the volcanics and not any form of a folded structure.

Disseminated Pyrite is found in outcrops throughout the area in both sediments and volcanics. (see Geological Report on the Property).

The survey results are presented in plan form on 2 maps as follows: Map No. 1 - I.P. Chargeability Data

Map No. 2 - Apparent Resistivity Data

Both maps are plotted at a scale of 1:2500. The N=1 values are plotted in the left hand side of the line with N=2 on the right. Only the N=1 values are contoured.

#### 6. RESULTS OF INDUCED POLARIZATION SURVEY

Several interesting I.P. anomalies were outlined and are numbered for convenience of interpretation. There are basically 2 types of I.P. anomalies on the property (a) weak to medium chargeable zones with a background or higher resistivity, (b) medium to highly chargeable zones of low resistivity. The following is a description of the various anomalies.

<u>Anomaly # 1</u> - This anomaly runs parallel to and south of the main sulphide and/or graphite zone which extends across the property. The anomaly has a high chargeability and a suggestion of a relative resistivity high within the argillitic sequence. This could indicate a sulphide source without the graphite which could be associated with the strong anomaly to the north. Coupled with this there appears to be an isolated gold geochem anomaly from a previous survey (see Hopkins report Feb. 1984).

Anomaly # 2 - This anomaly could be an extension of Anomaly # 1. It has a higher chargeability and a low resistivity. It appears to conform to the boundary between the sediments and another mafic unit to the south. The anomaly is open to the SE where it goes off the property. The anomaly

 $\sim_x$  pears to be coincident with one of 3 or 4 AEM, Input conductors on the government survey map no. 80537 - Swaze Area.

Anomaly # 3 - This anomaly is well north of the sediments, in a mafic volcanic unit. It is not as well defined as the others but is probably of higher priority. The anomaly consists of a broad, weakly chargeable zone extending from 1680 E to the west edge of the surveyed area. The east end of the anomaly is coincident with a strong gold geochem anomaly, in particular L1560E - 725N where the chargeability is slightly higher. The chargeability zone is coincident with a zone of relatively higher resistivity. Thus, the anomaly source could be a minor amount of disseminated sulphides in a more felsic or quartz rich environment. Anomaly # 4, # 4a, # 4b - Anomalies # 4, 4a, 4b could be one interrupted zone. It appears to be north of the contact and well within the mafic The anomaly has a high resistivity and a medium to strong chargeunit. ability with the strongest being L 1680E - 070N. The only associated geochemical anomaly is at 1560E - 030N and could be from anomaly 4b. Also, the geology map shown disseminated sulphides outcropping in a ridge coincident with anomaly # 4b.

It could be an extension of 4, 4a, 4b, as it is within the mafics and parallel to but north of the sediments. It appears to be coincident with one of the highest geochem anomalies on the property on the TWP line at the baseline. The anomaly is open to the east where it goes on to Dome's claim group. <u>Anomaly # 6</u> - Two or three parallel conductive zones run E-SE across the grid and are evident on the government Input map no 80537 - Swaze Area. The I.P. results indicate parallel zones which are not very well defined. Better horizontal resolution could be obtained from an electromagnetic survey. Thus the wide sedimentary zone has been called anomaly # 6 for now. <u>Anomaly # 7</u> - Anomaly # 7 is similar to anomaly # 4 with a high chargeability medium resistivity on L 1080E - 015N. There is no apparent coincident

geochem response associated with the anomaly.

The survey outlined seven interesting anomalies. The anomalies are listed below in order of priority based on the authors examination of all available information.

Anomaly # 3 - The results are suggestive of disseminated sulphides and because of the coincident geochem anomaly, this should be given top priority. The anomaly centered at L 1560E - 725N should be tested by a short diamond drill hole or trenching.

Anomaly # 1 - This anomaly appears to be in the sediments but is isolated from anomaly # 6. It has a good coincident geochem response. This could be part of anomaly # 2 where there could be a facies charge as you go eastward on this horizon. The anomaly at L 72E - 520S should be tested by drilling. If favourable results are obtained, the horizon should also be tested further east on anomaly # 2.

Anomaly # 5, # 5a - This is a weakly chargeable zone coincident with the highest geochem anomaly on the property on the TWP line. The geochem appears to not continue westward on to the property but this should not rule out the anomaly. It should be tested on L 24E and if any favourable results obtained the I.P. anomaly should be followed westward.

<u>Anomaly # 4b, # 4a, # 4</u> - Anomaly # 4b should be tested first on this horizon due to its proximity to a geochem anomaly. Testing of anomaly # 4, # 4a would depend on results from anomaly # 4b.

Anomaly # 7 - Testing of this anomaly should be dependent on results of the other horizons and budget limitations.

<u>Anomaly # 6</u> - This is a complex horizon consisting of parallel conductors within a argillitic sedimentary horizon. Further resolution of these conductors would best be done with a conventional Electromagnetic Method such as Max-Min horizontal loop. There is no apparent geochem anomaly associated with the horizon but it could be masked by thicker, organic overburden covering the topographically lower sediments. The horizon could be tested from the I.P. results ensuring that the holes intersect the entire horizon. If this horizon proves favourable geologically then more geophysics is warrented to maximize drilling costs.

#### 3. CONCLUSIONS

The Induced Polarization technique works very well in this environment. The reconnaissance method of two 'N' spacings proved adequate to detect the presence of either disseminated or massive sulphides. The author would prefer to do a detailed I.P. profile over each drill section consisting of a smaller 'a' spacing reading n 1-4. Also a magnetometer and VLF-EM survey should precede any further work. The cost is relatively inexpensive and the mag survey would deliniate any dikes and structure while the VLF would aid in the structural interpretation.

#### CERTIFICATE

- 1, Raymond Meikle of North Bay, Ontario hereby certify that:
- 1) I hold a 3 yr Technologist Diploma from the Haileybury School of Mines, Haileybury, Ontario.
- 2) I have based conclusions and recommendations contained in this report on knowledge of the area, my previous experience, and on the results of the field work conducted on the property during December 1983 and January 1984, which was carried out under my overall supervision.
- 3) I hold no interest, directly or indirectly in this property other than professional fees, nor do I expect to receive any interest in the property or in Kenty Resources Ltd or any of it's subsidiary companies.

North Bay, Ontario, Canada

Mechle R.J. Meikle



# CRONE GEOPHYSICS LIMITED INDUCED POLARIZATION RECEIVER





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# **SPECIFICATIONS'**

DIMENGIONS:	$28 \text{ cm x } 18 \text{ cm x } 27 \text{ cm } (11'' \text{ x } 7'' \text{ x } 10\frac{1}{2}'')$
SHIPPING DIMENSIONS:	37cm x 27cm x 35cm (14½" x 10" x 14")
<b>VEIGHT:</b>	4 kg (9 lbs)
SHIPPING WEIGHT:	11.5 kg (25 lbs)
BATTERY POWER SUPPLY:	Standard Throw Away Batteries —5 of "C" cells, 1.5 volt each, 60MA drain Eveready types E93 or 1035 —1 of 9 volt transistor battery for S.P. buckout, <b>#216</b> Battery life—3 to 6 months
PRIMARY VOLTAGE:	"Vp": .0005 to 60 volts, accuracy ±5%
CURRENT CYCLE:	2.0 seconds on 2.0 seconds off current cycle. Off period must be greater than 1.8 seconds
CHARGEABILITY:	M and N readings directly in milliseconds
	Normal Operation 0.45 Bise 0.35 Operation

• BOTH M AND N READINGS ARE AUTOMATICALLY CORRECTED TO the Newmont 33M1 Standard. M and N readings should be the same with a normal polarization decay. Unequal readings indicate the presence of inductive coupling and then the N reading should be used.

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- Both M and N readings are taken for 3 current cycles (6 samples) then they are automatically averaged and stored for direct read out.
- Self Potential: Automatic buckout effective when SP less than .6 Vp Manual buckout -0 to 1.0 volts calibrated ( $^{1.0}$  volts uncalibrated) Fine SP buckout for low signal levels.
- Pot resistance Check: Check of potential contacts on millisecond meter; Green-good contact, Orange-marginal contact (M-N readings are accurate, Vp and resistivity readings have error), Red-nil or unacceptable contact.
- Input Impedance: 300,000 Ohms
- Noise Filters: 30 DB at 50 or 60 Hz (factory set) 30 DB/Octave above 8 Hz 6 DB/Octave above 35 Hz
- Automatic Time Lock to ground signal
- Amplifier drift correction by one control
- Temperature Range: -40°C to 50°C (-40°F to 120°F)

\*Specifications subject to change without notice







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# **SPECIFICATIONS\***

DIME IONS:	38cm x 23cm x 25cm (15" x 9" x 10")
-SHIPPING DIMENSIONS:	47cm x 30cm x 34cm (18½" x 12" x 13½")
WEIGHT:	8 kg (19 lbs)
SHIPPING WEIGHT:	17 kg (37 lbs)
OUTPUT VOLTAGE:	6 steps - 120, 212, 300, 425, 600 and 850 volts
MAXIMUM CURRENT OUTPUT:	1.5 amps; Meter full scale 1.5 amps and 0.5 amps
CURRENT CYCLE:	2.0 seconds on — 2.0 seconds off Trimpot adjustable Red light ON during positive pulse
<b>OVERLOAD PROTECTION:</b>	Automatic cut off if overloaded
BATTERY POWER SUPPLY:	Any 24 volt source capable of delivering 250 watts. Usually two of 12 volt, or four of 6 volt Gel type or Motorcycle batteries.
	Two of Globe gel 12200, 12 volt, 20 amp. hr., 16.7 lb each. Provides continuous 250 watt output for 4 hours.
	Four of Gould gel PB 690, 6 volt, 9 amp. hr., 3.7 lb each. Provides continuous 250 watt output for 2 hours.
BATTERY CHECK:	Meter shows battery voltage and current
FUSE PROTECTION:	15 amp 3 AG automotive type fuse
MOISTURE PROTECTION:	All circuits coated with silicone sealant
PACKBOARD MOUNTING:	Snap on mounting to magnesium packboard with battery container
TEMPERATURE RANGE:	-40°C to 50°C (-40°F to 120°F)

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\*Specifications subject to change without notice

Ministry of Natural	Report of Work				Instructions: -	Please type or print. If number of mining claims traversed			
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## **Ministry of Natural Resources**

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## 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) Induced Pol	arization - Resistivity			
Township or Area Roll	.0	MINING CLAR	MS TRAVERSED	
Claim Holder(s) Kenty Reso	ources Ltd	List numerically		
Survey Company Rayan Expl	oration Ltd			
Author of Report R.J. Meikl	.e	(preax)	(pumper)	
Address of Author R.R. # 2 Hw	y 11 North North Bay, Ontario	רייים	<b>n/</b> 70100	
Covering Dates of Survey Dec 1	.5/83 – Jan 25/84	FOIZAZI	F072422	
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Total Miles of Line Cut		<b>P</b> 672425	<b>P</b> 672426	
SPECIAL PROVISIONS	DAYS	P672427		
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survey.	-Radiometric	P650400	<b>P650401</b>	
ENTER 20 days for each	-Other 1.P. 20			
additional survey using	<b>P</b> 650402	P650403		
same grid.	Geochemical	<b>P</b> 650404	P650405	
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(enter	days per claim)	<b>P</b> 650408	<b>P</b> 650409	
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If space insufficient, attach list

#### **GEOPHYSICAL TECHNICAL DATA**

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File No 2.6434

Mining Lands Section

Control Sheet



MINING LANDS COMMENTS:

OJ 6.7 \_\_\_\_\_ \_\_\_\_

S. Aust

Signature of Assessor

4ne 6/84

Ɗate

Our File: 2.6434

1984 3 09

Mr. Bruce Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Ave. Timmins, Ontario P4N 2S7

Dear Sir:

We have received reports and maps for a Geophysical Induced Polarization survey submitted under Special Provisions (credit for Performance and Coverage) on mining claims P 575240 et al in the Township of Rollo.

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

We do not have a copy 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 very truly,

S. E. Yundt Director Land Management Branch

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

A. Barr:dg

cc: Kenty Resources Ltd. 121 Allan St. Oakville, Ontario L6J 3N3

Rayan Exploration Ltd.

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