



41015SE0035 2.13299 SWAYZE

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MINING LANDS SECTION

REPORT on
GEOLOGICAL EXPLORATION PROGRAM
on the
SWAYZE TOWNSHIP PROPERTY
for
CHARLES MORTIMER

2.13299

January 1990
J.G. Salo

PURPOSE:

The two claims in Swayze Township were staked in the fall of 1989 by Charles Mortimer. The present work program is being done on an OPAP grant. The survey and assays will outline if there is a mineable property here.

INTRODUCTION:

In January of 1990, Joe-Ann Salo, a private contractor, was contacted by Charles Mortimer to perform a Total Field Magnetometer Survey and Halo Explorations was contracted to do plugger work and blasting. The property covered by this program is a two claim group in Swayze Township, Porcupine Mining Division, Northeastern Ontario. The program involved a Total Field Magnetometer Survey, mapping and plugger and blasting work to obtain samples for assays. This report describes the methods and results of the program.

LOCATION AND ACCESS:

The property is located in the south-west part of Swayze Twp. The two claims are between Cree and Cuckoo Lake, one mile north of the 2 mile mark on the south township line. The group was originally access by float plane but due to the ice conditions truck and skidoo was used for this program. Highway 101 out of Timmins to the southwest for approximately 65 miles to Foleyet. The Foleyet Lumber Road is open and in good condition for travelling. Fifty miles on this road will bring you to an old lumber road that leads to Cree Lake. Across the lake to the property.

PAST HISTORY:

- 1933-Buffalo Canadian Mines Ltd.,-trenching and diamond drilling on the east shore of Cree Lake
- 1941-V.B. Meen-Geologic mapping
- 1961-Flintrock Mines Ltd.,-D. McKechnie visited the Flintrock group and wrote a report on his visible findings. His recommendations for drilling were followed. Flintrock drilled 34 holes, 22 on the mainland ranging from 28-379 feet, 9 holes on the island and 3 holes on the shores of Cree Lake. Flintrock Mines obtained values for gold ranging from .4-20.7 oz per ton and .32-4.54 oz per ton A silver.
- 1965-Geological Report 33"Geology of the Swayze and Dore Twps" by J.F. Donovan
- 1981-J. Patrie staked the ground and optioned it to Troudor Resources
- 1982-Troudor Resources Inc.-VLF EM and Mag survey with report by D.R. MacQuarrie. He recommended IP with trenching and or drilling on the positive results. A geology report by L.J. Cunningham
- 1984- Assays filed by Utah Mines for Troudor Resources
- 1984-Canadian Nickel Co. Ltd.,-held 359 claims in Swayze , Denyes and Dore Townships. A line grid, geological mapping, Mag survey, IP survey and 3 diamond drill holes.

PROPERTY DESCRIPTION:

The rocks of the Swayze area are a Precambrian sedimentary-volcanic complex, intruded by dykes and stock like bodies of granite and porphyry. Keewatin greenstones, consisting of basic flows and tuffs are enfolded with bands of sediments, inter-laced with acid flows and tuff. Gold bearing quartz stringers were found near the trenches made by Buffalo Canadian Mines. The assay values were between 1.496 and 3.413 ounces per ton on surface samples. The quartz vein or stringers is about 2 foot wide with inclusions of waste. The entire width of the stringer is well mineralized. Some oxidization has taken place in the old trenches but fresh breaks show pyrite and calcopyrite. Small amounts of platinum were assayed from the fall samples snet in.

METHOD OF SURVEY:

A Total Field Magnetometer Survey was carried out between January 28-29, 1990. A G.S.M. Proton Precession Magnetometer was used for the survey and was operated by Joe-Anne Salo of Connaught. A metric grid was used for the control during the survey. The grid was cut running north-south at 100 meter centers on an east-west baseline. Magnetic readings were taken at every picketed station along the grid lines and baseline. Diurnal drift was corrected by noting the time and looping grid lines with a predetermined base station. Mapping was done on a scale of 20 cm=100 meters.

SAMPLING:

After the survey was completed, corrected and mapped, it showed no significant areas for plugger work. The trenches were channel sampled and the outcrop that were visible on the entire property were also sampled.

An Atlas Copco Plugger powered by gas with a two foot bit was used to establish a plugger hole in each area. The holes were filled with Sil-Gel 70% and detonated with a timed fuse. Samples from each hole were taken to Swastika Laboratories for assaying.

Assay results to follow.

DISCUSSION:

The Total Field Magnetometer was very flat on this property. A total of 132 readings were taken. The highest value is 58900 gammas and the lowest value is 58398 gamms.

Line 2 west just south of the lake shore is the highest area of magnetics on the grid. It is however a very small conductor.

Line D at the very south has a small conductor of magnetic low values. This is also very small.

The outcrop on the property is abundant and the sampling will tell if the property is worth further investigation. From the time this survey was completed to the time this report was written a VLF survey was done by Larry Salo. From the notes he is picking up anomalous conductors, these anomalies will be compared with the assays to determine if stripping or diamond drilling should be done.

THE SCHOOL OF MINES
Haileybury Campus of
Northern College of Applied Arts and Technology

APPENDIX TO REPORT
FIELD PROCEDURE FOR A MAGNETOMETER SURVEY

The Magnetometer deflection depends on the total vertical intensity and is made up of:

- a) A large part which does not vary with time or position on the property
- b) A small part which varies with time, called the diurnal variation
- c) A part which varies over the property, called the anomaly value

It is necessary to eliminate (a) and (b) and to measure (c). The first may be eliminated by subtracting a constant value from all the final calculated values in the survey.

The second may be eliminated by measuring diurnal changes and subtracting them from the results at each station. The residual after these corrections are made is known as the anomaly value.

Setting Up Base Stations

To obtain a graph showing the variation of the magnetic field during a day it is necessary to establish a series of stations over the property whose value is known. These base stations should be so placed that one or another may be conveniently read at least every hour. The base line across a property is useful for a line of such stations, as are tie lines which are not more than one half mile from the base line.

To set out the base stations the following procedure is suggested.

1. Read base A, then B, then C, then D and return to A
2. Read base D, E, F, G and return to B
3. Continue until all base stations are covered
4. Tabulate the results as in the example below -

STATION	TIME	READING GAMMAS	DIURNAL CORRECTION	CORRECTED BASE VALUE
Base A	9.00	1190	0	1190
Base B	9.10	1060	$1/4 \times 35 = 9$	1051
Base C	9.20	828	$2/4 \times 35 = 18$	810
Base D	9.30	1245	27	1228
Base A	9.40	1225	35	1190

Note that base A has increased from 1190 to 1225 in 40 minutes. To bring the value back to 1190 one must subtract 35 gammas. The assumption is made that the increase has been regular hence Base B must have $1/4 \times 35$ subtracted and so on. A continuation of the calculation is carried out for all base stations.

1.2 EARTH'S MAGNETIC FIELD

Figure 1 shows nominal distribution of Earth's magnetic field in kilogammas, with dotted lines separating equatorial and polar regions. In polar regions an inclination of magnetic field vector is closer to vertical, while in equatorial regions it is nominally horizontal. To obtain the best precession signal and superior quality of operation, the sensor must be aligned accordingly. Orientation line at the side of the sensor should be oriented vertically in polar regions and horizontally in equatorial regions. Although maximum signals are achieved by aligning the sensor orientation line close to the actual direction of the magnetic field, it is generally not necessary to go beyond horizontal/vertical orientation mentioned above.

Range position on a front panel of the instrument should initially be selected closest to a nominal value of magnetic field shown for particular region in fig.1. As local distributions of magnetic field could be considerably altered, a proper range position should be determined by first valid reading of the magnetometer (first two digits of the display show a real magnetic field value for the place of measurement). During a survey, the field value may change beyond initially used range and the Range switch position should be adjusted accordingly, although the GSM-8 will generally work correctly on several adjacent ranges.

Local ferromagnetic objects like screws, nuts, pocket knives, nickel coins, wristwatches, tools etc. may impair the quality of measurement by modifying the value of local magnetic field being measured or in drastic cases by even destroying the proton precession signal due to excessive gradients. For best results ferromagnetic objects should be kept away from the sensor. NiCd batteries, although slightly magnetic, do not produce visible effect on measurements if the sensor is installed on the staff and kept at arms length away from the operator and the console. For back-pack installation of the sensor a nonmagnetic set of batteries is recommended.

2. SPECIFICATIONS

RESOLUTION: 1 gamma, 0.5 gamma optional

ACCURACY: ± 1 gamma over operating range

RANGE: 20,000-100,000 gamma in 23 overlapping steps

GRADIENT TOLERANCE: Up to 5000 gamma/metre

OPERATING MODES: MANUAL PUSHBUTTON, new reading every 1.85 sec., display active between readings

CYCLING, pushbutton initiated, 1.85 sec. period

SELFTEST, pushbutton controlled, 7 sec. period

OUTPUT: VISUAL: 5 digit 1 cm (0.4") high Liquid Crystal Display, visible in any ambient light

DIGITAL: Multiplied precession frequency and gating pulse

ANALOG: Optional 0-99 or 0-999 gamma

EXTERNAL TRIGGER: Permits externally triggered operation with periods longer than 1.85 sec. (optional minimum period 0.9 sec.)

POWER REQUIREMENTS: 12V 0.7A peak, 5mA standby

POWER SOURCE: INTERNAL: 12V 0.75Ah NiCd rechargeable battery 3,000 readings per full charge

EXTERNAL: 12-18V

BATTERY CHARGER: Input: 110/220V 50/60Hz; output: 14V 75mA DC

OPERATING TEMPERATURE: -35 to +55C

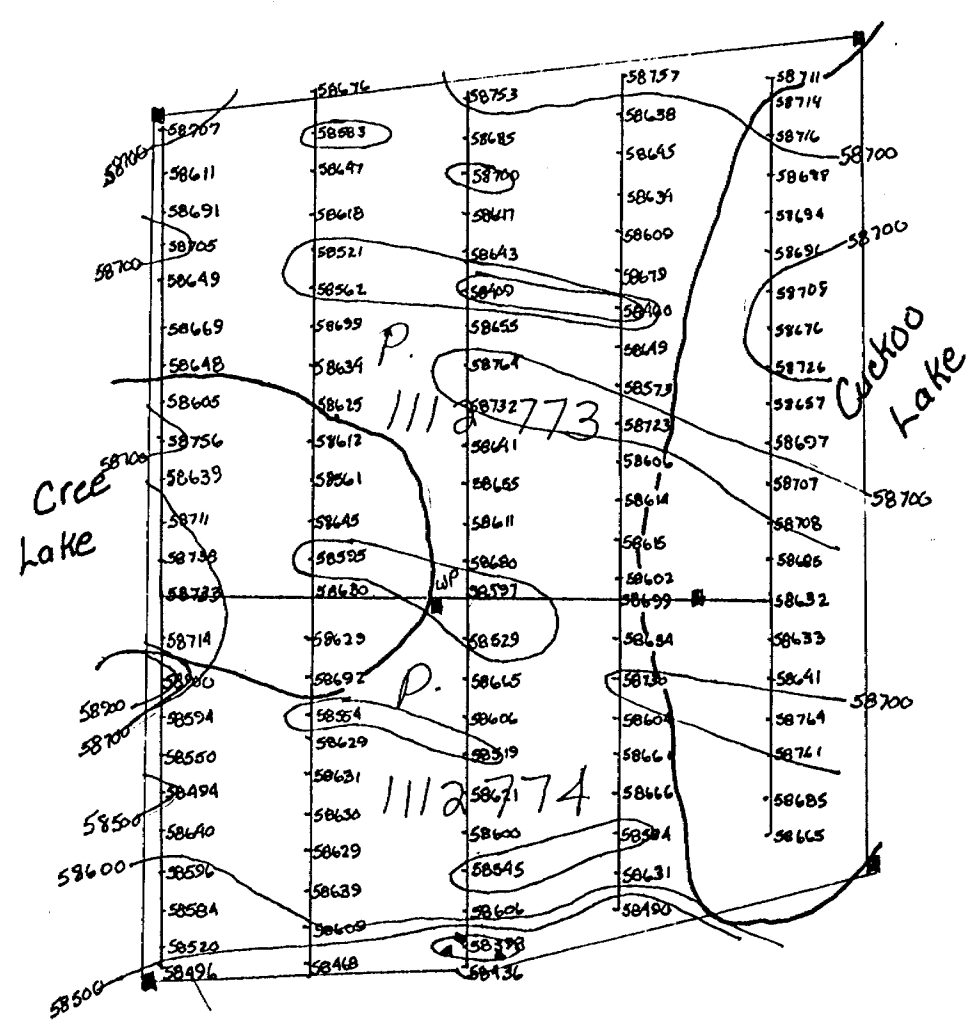
DIMENSIONS: CONSOLE: 15x8x15cm (6x3 $\frac{1}{2}$ x6")

SENSOR: 14x7cm dia (5 $\frac{1}{2}$ x3" dia)

STAFF: 175cm (70") extended, 53cm (21") collapsed, or 4 45cm (18") sections

WEIGHT: 2.7kg (6 lb) per standard complete with battery

MAPS



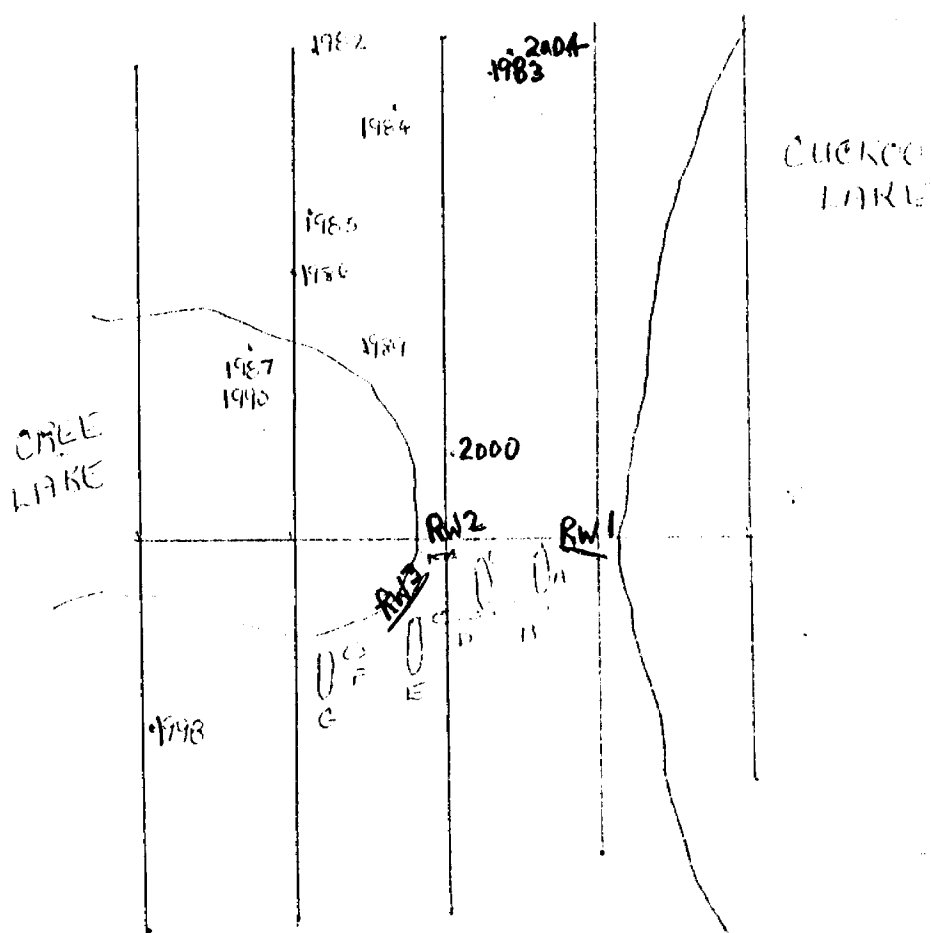
Magnetometer Survey.

Swayze Township
G.S.M. Magnetometer

- located claim post
- 58500 magnetic reading
- ~ 58500 magnetic contour

20cm = 100 meters

JL Sato



Rock Wall
 Trench

- Trench A 2007, 2010
- B - 1994, 2002, 2005, 2021, 2022, 2023
- C - 2019, 2020
- D - 1977, 1980, 1981, 1988, 1996, 2003, 2009, 2011, 2013, 2014, 2015
- E - 1976, 1978, 1979, 1991, 1992, 1995, 2001, 2004, 2007, 2014
- F 1997
- G 1999
- Rock Wall 1 2016, 2017, 2018
- 2 - 1993, 2008
- 3 - 2025

J. Salo
 10/10/2025

WORK SUMMARY



Instructions

- Please type or print.
- For each type of work performed, a separate Report of Work should be completed.
- For Geo-technical work, use form no. 1382 "Report of Work (Geological, Geophysical, Geochemical)" and form no. 878 for Expenditures.
- Refer to Sections 76 and 77, the Mining Act for assessment work requirements and the reverse side of this form for table of information.

Mining Act

Report of Work

Name and Address of Recorded Holder <i>Charles Mortimer</i>	Prospector's Licence No. <i>A-38003</i>
% Halo Explorations Her Del Connaught Ont	Telephone No. <i>363-2108</i>

Mining Division <i>Porcupine</i>	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.
	Prefix	Number			Prefix	Number			Prefix	Number		
Township or Area <i>Swayze Sup</i>	<i>P</i>	<i>1112773</i>		<i>21</i>								
Total Assessment Credits Claimed <i>42</i>	<i>P</i>	<i>1112774</i>		<i>21</i>								
Type of Work Performed (Check one only)												
<input checked="" type="checkbox"/> Manual Work												
<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work												
<input type="checkbox"/> Mechanical equipment												
<input type="checkbox"/> Power Stripping other than Manual (maximum credit allowed - 100 days per claim)												
<input type="checkbox"/> Diamond or other Core drilling												
<input type="checkbox"/> Core Specimens												

Dates when work was performed From: <i>Jan 28/90</i> to <i>Jan 31/90</i>	Total No. of Days Performed <i>42</i>	Total No. of Days Claimed <i>42</i>	Total No. of Days to be Claimed at a Future Date <i>nil</i>
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All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. * (See note No. 1 on reverse side)				Mining Claim <i>P1112773</i>	No. of Days <i>15</i>	Mining Claim <i>P1112774</i>	No. of Days <i>27</i>	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days

Required Information eg. type of equipment, Names, Addresses, etc. (See Table on reverse side)
If space below is insufficient, attach schedules with required information and location sketches

see attached

Certification of Beneficial Interest * (See Note No. 2 on reverse side)

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.	Date	Recorded Holder or Agent (Signature)
--	------	--------------------------------------

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

SWAYZE TOWNSHIP CLAIMS- CHARLES MORTIMER
WORK SUMMARY

Larr Salo- General Delivery, Connaught, Ontario

January 28/90	Blasting	8am-4.30pm	{8.5}	
January 29/90	Plugger	8am-5 pm	{9}	
January 30/90	Plugger	8.30am-5pm	{8.5}	
January 31/90	Blasting	7.30am-1pm	{5.5}	
	TOTAL HOURS			31.5

Charles Mortimer-Box 136m Hwy 101, Timmins, Ontario

January 28/90	Plugger	8am-4.30pm	{8.5}	
January 29/90	Plugger	8am-5pm	{9}	
January 30/90	Blasting	8.30am-5pm	{8.5}	
January 31/90	Blasting	7.30am-1pm	{5.5}	
	TOTAL HOURS			31.5

Louis Ottereyes-2 Pine Street, Waswanipi Reserve, Quebec

January 28/90	Plugger	8am-4.30pm	{8.5}	
January 29/90	Blasting	8am-5pm	{9}	
January 30/90	Plugger	8.30am-5pm	{8.5}	
January 31/90	Plugger	7.30am-1pm	{5.5}	
	TOTAL HOURS			31.5

Fred Chubb- General Delivery, New Lovell, Ontario

January 28/90	Blasting	8am-4.30pm	{8.5}	
January 29/90	Blasting	8am-5pm	{9}	
January 30/90	Blasting	8.30am-5pm	{8.5}	
January 31/90	Plugger	7.30am-1pm	{5.5}	
	TOTAL HOURS			31.5

TOTAL HOURS 126

+ 3 = 42 man days

42 man days + 2 claims = 21 man days per claim

EQUIPMENT USED:

2-Atlas Copco gas powered pluggers.
Sil-Gel 70%
B-Line
3m fuses

ASSAY RESULTS

**SWASTIKA LABORATORIES LIMITED**

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
 TELEPHONE: (705) 642-3244 FAX (705) 642-3300

JOUR DATE
 31 MOIS
 DAY MONTH ANNEE
 YEAR
 1990

TRANSPORTEUR

SHIPPED VIA

VENDU A
SOLD TO

Halo Exploration
 Connaught, Ontario
 PON IAO
 Attention: J. Salo

1.5% LATE CHARGE OVER 30
 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FÉD.	NO. D'EXEMPT. DE TAXE PROV.	VOTRE NO. DE COMMANDE	NOTRE NO DE COMMANDE	CONDITIONS NET 30 DAYS	REP. DES VENTES
FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS	SALES REP.
QUANTITÉ QUANTITY	DESCRIPTION			PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
50	Au assays			\$ 8.75	\$ 437.50
50	Pt assays			8.75	437.50
50	Multi-Element			30.00	1500.00
50	Sample Handling			3.00	150.00
<i># C-1976-C-2025 uniel</i>					
10	Au assays			8.75	87.50
10	Pt assays			8.75	87.50
10	Multi-Elements			30.00	300.00
10	Sample Handling			3.00	30.00
SWASTIKA LABORATORIES LTD. WITH THANKS PER <i>J. Salo</i>					
TOTAL....					\$ 3030.00

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
 ESTABLISHED 1928





Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Established 1928

Certificate No OT-0093-RA1 (A) Date March 2, 1990

Received Feb. 1, 1990 60 Rock Samples

Submitted by Halo Explorations, Connaught, Ontario. Page 2.

OT-0093RA1

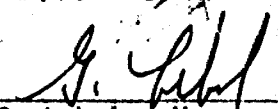
"SEMI" MULTI-SCAN — RESULTS IN PPM

	C-1976	1977	1978	1979	1980	1981	1982	1983	1984	1985
Ag	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
As	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
B %	<.01	<.01	<.01	<.01	<.01	.02	<.01	<.01	<.01	<.01
Ba	272	425	542	610	97	432	173	330	123	102
Be	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cd	19	<10	<10	<10	71	<10	<10	<10	12	<10
Ce	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Co	73	35	25	16	63	35	37	35	68	38
Cr	318	439	301	354	1245	676	517	371	425	572
Cu	341	37	6	<10	25	<10	<10	35	171	82
La	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Mo	<10	<10	<10	<10	41	<10	<10	10	<10	<10
Nb	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ni	112	33	74	65	53	143	167	106	142	171
Pb	235	216	143	159	144	134	143	214	117	148
S %	.3	.9	.2	.1	1.2	.6	.09	.1	.5	.1
Sb	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Se	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Sn	<10	<10	<10	<10	<10	<10	<10	14	<10	<10
Sr	58	656	56	136	37	117	158	272	154	499
Ta	14	11	<10	10	52	<10	<10	17	<10	<10
Th	12	11	<10	<10	<10	<10	<10	<10	<10	<10
U	10	<10	<10	<10	<10	<10	<10	<10	<10	<10
V	329	166	92	110	75	113	139	136	137	136
W	12	<10	<10	<10	21	<10	<10	10	<10	<10
Y	18	19	<10	<10	<10	<10	<10	<10	<10	<10
Zn	106	70	82	56	96	50	78	77	83	85
Zr	39	185	143	167	32	85	81	88	71	91

RESULTS IN %

Al ₂ O ₃	12.2	12.8	10.9	13.18	3.0	10.6	11.7	13.7	7.9	11.6
Fe ₂ O ₃	14.7	7.6	6.8	5.0	7.1	6.0	8.0	6.9	9.4	7.5
CaO	5.5	5.9	5.3	7.6	7.7	5.7	3.3	2.9	2.2	4.0
MgO	3.8	5.0	2.8	1.7	.8	4.6	5.9	5.7	3.7	6.4
H ₂ O	1.8	5.1	.6	2.3	.1	3.9	4.6	5.8	3.8	4.4
K ₂ O	.9	.2	1.8	2.4	.2	.8	.1	.2	<.01	<.01
TiO ₂	.8	.6	.3	.3	.06	.3	.2	.5	.3	.4
MnO	.1	.09	.07	.05	.06	.09	.08	.08	.1	.1
P ₂ O ₅	.2	.5	.2	.2	.4	.1	.2	.2	.2	.4

I.O.I. 7.64 4.54 6.29 7.48 5.55 6.15 6.04 5.75 6.18 5.78

Per 
G. Lebel - Manager



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OT-0093RA1

"SEMI" MULTI-SCAN - RESULTS IN PPM

	C-1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Ag	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
As	<10	<10	<10	<10	<10	31	<10	<10	<10	32
B %	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Ba	539	234	374	182	452	587	334	15	940	372
Be	<10	<10	<10	<10	<10	<10	<10	<10	<10	11
Bi	<10	12	<10	<10	<10	53	<10	13	<10	18
Cd	<10	19	<10	<10	<10	194	<10	109	<10	206
Ce	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Co	33	85	22	23	77	144	34	104	53	153
Cr	867	411	509	391	684	397	296	278	347	324
Cu	42	95	<10	<10	66	46	133	383	257	89
Fe	<10	<10	<10	<10	<10	13	<10	<10	19	<10
Mn	<10	<10	<10	<10	<10	94	<10	62	<10	62
Nb	<10	<10	<10	<10	<10	18	<10	12	<10	20
Ni	185	152	117	104	148	92	77	98	88	107
Pb	151	182	119	168	152	282	149	214	169	269
S %	.1	.3	.2	.1	.2	.6	.3	.3	.6	.4
Sb	<10	<10	<10	<10	<10	14	<10	<10	<10	17
Se	<10	<10	<10	<10	<10	16	<10	15	<10	17
Sn	<10	10	<10	<10	<10	14	<10	<10	<10	<10
Sr	515	233	83	190	284	146	76	282	98	68
Te	<10	<10	<10	<10	<10	13	<10	<10	<10	14
Th	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	11	<10	>10	<10	<10	<10	13	<10	14
V	136	255	95	127	261	116	195	274	133	292
W	<10	<10	<10	<10	<10	18	<10	10	<10	28
Y	<10	22	<10	<10	14	10	12	18	12	20
Zn	39	174	47	65	130	110	84	78	36	128
Zr	91	51	69	104	57	162	69	43	167	49

RESULTS IN %

Al ₂ O ₃	10.8	12.7	9.0	12.9	11.4	12.8	10.1	10.2	13.9	12.0
Fe ₂ O ₃	7.2	5.1	4.7	7.3	9.9	7.3	9.4	12.2	6.5	12.3
CaO	5.3	9.6	3.1	2.9	8.5	5.9	8.2	10.9	3.5	8.8
MgO	5.7	4.7	3.8	3.9	2.4	1.7	2.8	6.3	1.4	3.3
Na ₂ O	3.4	.9	3.4	5.8	2.9	2.7	1.6	.9	1.2	1.7
K ₂ O	.6	.2	.7	.4	.4	2.7	1.6	.9	1.2	1.7
SiO ₂	.5	1.9	.2	.2	2.0	.4	.4	.7	.5	.7
MnO	.08	.1	.06	.08	.1	.05	.1	.1	.04	.1
P ₂ O ₅	.3	.3	.1	.2	.4	.7	.1	.6	.2	.7
T.O.I.	2.67	5.15	5.22	4.47	4.04	5.63	8.18	9.95	3.38	9.18

Per

G. Lebel

G. Lebel - Manager

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



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Received Feb. 1, 1990 60 Rock Samples

Submitted by Halo Explorations, Connaught, Ontario. Page 4.

OT-0093RA1 "SEMI" MULTI-SCAN -- RESULTS IN PPM

	C-1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Aq	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
As	<100	<10	<10	15	<10	14	<10	18	<10	<10
B %	.1	.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Ba	550	375	786	945	145	638	744	861	311	66
Be	<10	<10	<10	<10	<10	<10	<10	12	<10	12
Bi	<10	11	<10	25	12	<10	<10	<10	<10	<10
Cd	<10	17	<10	101	<10	202	<10	206	<10	141
Ce	<10	<10	<10	<10	<10	<10	<10	11	<10	<10
Co	33	59	32	92	71	156	61	150	36	132
Cr	307	421	328	338	988	689	302	302	403	350
Cu	<10	64	<10	168	79	33	878	63	22	61
Ca	<10	11	<10	<10	<10	16	11	42	<10	<10
Mo	<10	<10	<10	62	<10	103	<10	106	<10	80
Hb	<10	<10	<10	62	<10	19	<10	>10	<10	15
Ni	118	101	95	142	173	123	82	51	139	147
Pb	166	185	164	198	141	281	172	299	186	270
S %	.1	.9	.1	.2	.1	.8	.5	.4	.1	.4
Sb	<10	<10	<10	<10	<10	13	<10	<10	<10	<10
Se	<10	<10	<10	14	<10	15	<10	16	<10	17
Sn	<10	<10	<10	11	<10	11	<10	18	<10	<10
Sr	45	33	78	65	79	171	66	953	342	74
Ta	<10	<10	<10	17	<10	15	<10	14	<10	11
Th	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
U	<10	<10	<10	<10	10	<10	<10	10	<10	11
V	131	313	125	131	262	148	124	164	137	316
W	<10	<10	<10	20	<10	12	<10	13	<10	<10
Y	<10	<10	<10	<10	<10	11	<10	18	<10	21
Zn	72	71	73	119	90	101	67	115	59	233
Zr	152	53	81	95	47	190	171	179	102	70

RESULTS IN %

Al ₂ O ₃	11.2	10.3	11.7	11.1	7.7	14.5	12.7	11.2	13.3	12.9
Fe ₂ O ₃	7.3	13.8	6.8	8.7	12.9	7.1	7.8	8.9	6.5	14.7
CaO	6.9	2.9	2.1	3.7	8.4	2.4	4.4	5.8	3.7	4.6
MgO	1.5	2.7	3.9	3.1	5.9	1.3	3.2	4.6	5.1	6.7
Na ₂ O	2.5	.6	2.3	1.1	1.6	4.0	1.6	3.7	6.1	3.8
K ₂ O	2.3	1.5	2.1	2.4	.2	2.6	2.5	.6	.06	.05
TiO ₂	.5	.7	.1	.3	1.2	.4	.5	.6	.4	.7
MnO	.07	.09	.06	.07	.1	.04	.06	.09	.08	.1
P ₂ O ₅	.2	.2	.1	.6	.1	.5	.2	.7	.2	.4

L.O.I. 8.11 4.95 4.52 5.95 2.66 2.99 4.76 4.19 4.46 6.15

Per

G. Lebel - Manager

P.O. Box 10, Swastika, Ontario P0K 1T0

Telephone (705) 642-3244

FAX (705) 642-3300



Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Certificate No OT-0093-RA1 (A) Date March 2, 1990

Received Feb. 1, 1990 60 Rock Samples

Submitted by Halo Explorations, Connaught, Ontario. Page 5.

OT-0093RA1 "SEMI" MULTI-SCAN — RESULTS IN PPM

	C-2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Ag	<.1	<.1	17	<.1	<.1	<.1	<.1	<.1	<.1	<.1
As	<10	<10	<10	<10	<10	<10	<10	<10	14	<10
B %	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Ba	192	338	412	646	451	706	138	762	84	1049
Bc	<10	<10	<10	<10	<10	<10	12	<10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	18	<10	<10	<10
Cd	<10	<10	<10	<10	<10	<10	176	<10	106	<10
Co	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cr	38	16	16	12	29	32	145	37	101	23
Cu	291	362	327	324	246	290	309	313	340	315
Fe	119	<10	<10	457	233	517	255	240	113	34
Ga	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Mn	<10	<10	<10	<10	10	<10	90	<10	55	<10
Nb	<10	<10	<10	<10	<10	<10	16	<10	10	<10
Ni	61	30	19	29	49	72	104	56	109	30
Pb	136	94	104	98	93	112	233	137	184	79
S %	.1	.2	.07	.3	.1	.2	.5	.3	.2	.06
Se	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Te	<10	<10	<10	<10	<10	<10	15	<10	11	<10
Sn	<10	<10	<10	<10	<10	<10	19	<10	10	<10
Sr	157	79	125	37	50	36	61	24	56	278
Ta	<10	<10	<10	<10	<10	<10	12	<10	10	<10
Tb	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Ti	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
V	216	117	80	102	102	106	245	103	206	100
W	<10	<10	<10	<10	11	<10	17	<10	<10	<10
Zn	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Zr	51	41	21	15	33	32	171	56	78	58
	66	124	122	159	106	158	41	155	75	124
RESULTS IN %										
Al ₂ O ₃	8.7	8.4	9.3	8.8	9.0	9.7	8.1	10	9.8	8.1
Fe ₂ O ₃	8.4	4.4	2.8	4.3	5.8	5.7	13	5.6	10	4.9
CaO	4.2	2.6	1.8	.9	5.6	.7	3.8	.5	1.1	1.7
MgO	3.5	1.6	1.2	.6	1.7	.8	4.9	.7	3.4	2.1
Na ₂ O	3.2	4.9	5.5	1.8	2.0	.4	1.6	.5	4.1	4.5
SiO ₂	.3	.7	.7	2.8	1.5	3.3	.2	3.2	.06	1.3
H ₂ O	.5	.4	.2	.5	.4	.4	.7	.4	.6	.4
MnO	.09	.04	.02	.02	.06	.03	.1	.03	.1	.05
Fe ₂ O _x	.1	.1	.1	.1	.2	.2	.5	.2	.3	.1
LOI	6.14	3.45	2.49	1.79	6.52	2.69	7.33	2.00	3.84	2.78

Per G. Lebel
G. Lebel - Manager



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A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Certificate No OT-0093-RA (A) Date March 2, 1990

Received Feb. 1, 1990 60 Rock Samples

Submitted by Halo Explorations, Connaught, Ontario. Page 6.


OT-0093RA1

"SEMI" MULTI-SCAN — RESULTS IN PPM

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Ag	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1	<.1
As	<10	<10	<10	<10	13	<10	<10	17	<10	<10
B %	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
Ba	70	151	35	51	58	551	342	672	12	10
Be	<10	<10	<10	<10	11	<10	<10	10	<10	<10
Bi	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cd	<10	<10	17	<10	201	<10	<10	201	<10	<10
Co	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cr	45	31	52	45	159	26	41	142	41	56
Cu	325	420	283	311	334	279	323	468	285	272
Fe	307	46	269	165	46	<10	<10	22	126	738
Ga	<10	<10	>10	<10	<10	<10	<10	13	<10	<10
Mo	<10	<10	<10	<10	99	<10	<10	96	<10	<10
Hf	<10	<10	<10	<10	19	<10	<10	18	<10	<10
Hg	145	91	90	88	122	101	86	120	86	80
Pb	166	139	145	121	234	107	160	209	127	143
S %	.1	.1	.2	.8	.4	.1	.1	.4	.2	.3
Sb	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Se	<10	<10	<10	<10	16	<10	<10	15	<10	<10
Sn	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Str	86	498	194	92	108	45	73	62	359	267
Ta	<10	<10	<10	<10	13	<10	<10	13	<10	<10
Tb	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Tl	<10	<10	<10	<10	11	<10	<10	10	<10	<10
V	136	214	253	248	254	106	319	122	281	273
W	<10	<10	<10	<10	28	<10	<10	14	<10	<10
X	<10	10	11	<10	16	<10	16	<10	14	14
Zn	57	50	69	59	159	60	85	117	54	55
Zr	132	89	36	42	59	110	34	113	28	32

RESULTS IN %

Al ₂ O ₃	12.1	12.2	9.4	9.7	9.6	9.0	12.5	8.4	10	10
Fe ₂ O ₃	8.5	8.0	11.8	10.2	12.3	7.0	12	8.3	11	11
SiO ₂	3.1	4.2	5.9	8.2	7.5	7.4	4.7	7.7	8.9	8.4
MgO	3.9	3.9	5.4	4.4	5.9	2.2	3.9	1.1	5.5	5.3
Na ₂ O	6.0	5.4	2.0	3.6	3.1	.5	2.6	.6	1.2	2.3
K ₂ O	<.01	.05	<.01	<.01	.01	2.1	.8	.4	.6	.7
CaO	.5	.4	.7	.6	.5	.4	.8	.4	.6	.7
MnO	.09	.09	.1	.1	.1	.08	.1	.07	.1	.1
P ₂ O ₅	.2	.1	.1	.1	.7	.1	.1	.1	.1	.1
TOT	3.56	4.42	7.03	7.86	9.35	8.87	6.25	8.63	6.97	7.70

Per 
G. Lebel - Manager



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Assaying - Consulting - Representation

Page 1 of 2

Assay Certificate

0T-0093-RA1

Company: HALO EXPLORATIONS

Date: FEB-07-90

Project:

Copy 1. General Delivery, Connaught, PON 1A0

Attn: J.Salo

We hereby certify the following Assay of 60 ROCK samples submitted FEB-01-90 by .

Sample Number	Au g/tonne	Au oz/ton	Au-Check g/tonne	Au-Check oz/ton	Pt ppb
C-1976	0.04	.001			<20
C-1977	0.12	.004			<20
C-1978	0.02	.001			<20
C-1979	0.01	.001			<20
C-1980	15.22	.444	14.61	.426	<20
C-1981	0.04	.001			<20
C-1982	0.01	.001			<20
C-1983	0.02	.001			<20
C-1984	0.03	.001			<20
C-1985	0.01	.001			<20
C-1986	0.02	.001			<20
C-1987	0.20	.006			<20
C-1988	0.02	.001			<20
C-1989	0.04	.001			<20
C-1990	0.01	.001			<20
C-1991	0.08	.002			<20
C-1992	0.04	.001			<20
C-1993	0.21	.006			<20
C-1994	0.12	.004			<20
C-1995	0.05	.001	0.05	.001	<20
C-1996	0.06	.002			<20
C-1997	0.05	.001			<20
C-1998	0.07	.002			<20
C-1999	0.01	.001			<20
C-2000	0.01	.001			<20
C-2001	2.40	.070	1.87	.055	<20
C-2002	0.24	.007			<20
C-2003	0.02	.001			<20
C-2004	0.02	.001			<20
C-2005	0.84	.025	0.96	.028	<20

NOTE: Multi-element results to follow.

Certified by

G. Lebel / Manager



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Established 1928

Swastika Laboratories

A Division of Assayers Corporation Ltd.

Assaying - Consulting - Representation

Page 2 of 2

Assay Certificate

0T-0093-RA1

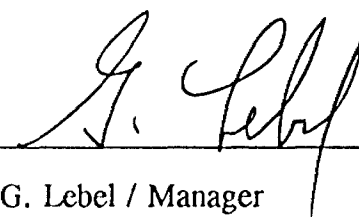
Company: HALO EXPLORATIONS
Project:
Attn: J.Salo

Date: FEB-07-90
Copy 1. General Delivery, Connaught, PON 1A0

We hereby certify the following Assay of 60 ROCK samples submitted FEB-01-90 by .

Sample Number	Au g/tonne	Au oz/ton	Au-Check g/tonne	Au-Check oz/ton	Pt ppb
C-2006	0.17	.005			<20
C-2007	0.36	.011			<20
C-2008	0.08	.002			<20
C-2009	0.02	.001			<20
C-2010	0.04	.001			<20
C-2011	2.74	.080	2.81	.082	<20
C-2012	0.11	.003			<20
C-2013	0.02	.001			<20
C-2014	0.05	.001			<20
C-2015	0.23	.007			<20
C-2016	0.07	.002			<20
C-2017	0.14	.004			<20
C-2018	0.24	.007			<20
C-2019	0.35	.010			<20
C-2020	0.19	.006			<20
C-2021	0.14	.004			<20
C-2022	0.07	.002			<20
C-2023	0.82	.024	0.97	.028	<20
C-2024	0.14	.004			<20
C-2025	0.02	.001			<20
JGS-1	0.01	.001			<20
JGS-2	0.01	.001			<20
JGS-3	0.02	.001			<20
JGS-4	0.01	.001			<20
JGS-5	0.02	.001			<20
JGS-6	0.01	.001			<20
JGS-7	0.01	.001			<20
JGS-8	0.01	.001			<20
JGS-9	0.01	.001			<20
JGS-10	0.01	.001	0.01	.001	<20

NOTE: Multi-element results to follow.

Certified by 
G. Lebel / Manager



P.O. Box 10, Swastika, Ontario P0K 1T0
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ABSTRACTS



Claim No. P-1112773

Recorded in the Name of <i>Charles H. Mortimer</i>	Licence No. <i>A-38003</i>	Date Recorded <i>October 16, 1989</i>
---	-------------------------------	--

Address <i>P.O. Box 136 Timmins, Ontario P4N 7C9</i>	Date and Time of Staking <i>October 9, 1989 12:30</i>	P. I. <input checked="" type="checkbox"/>
---	--	--

Office Use Only		Days Recorded	Balance	Description of Claim
Assessment Work Credits Assigned to other Claims				
				<p><i>Swayze Township (G3249)</i></p> <p>Reservations - 400 foot Surface Rights reservation around all lakes and rivers. Sand, gravel and peat reserved.</p> <p><i>Including land under water</i></p>

File No. R8906.596

Date	Days Work	

References

- 1961 - D. McKeechie - Silintrock Mines Ltd.
Jimmis Assessment File T-2192.
- 1965 - J. Donovan - Geological Report 33
"Geology of the Swagge and How Tops".
- 1982 - D.R. Macdunnachie
R.F. Sheldrake - Trador Resources Inc.
Cee Lake Gold Prospect.
Jimmis Assessment File T-2545.
- 1984 - Canadian Nickel Co. Ltd.
Jimmis Assessment File T-2446.

STATEMENT OF QUALIFICATIONS

I, Joe-Anne G. Salo, of Lot 2 Con. 6, German Township, in the Village of Connaught, the City of Timmins, the District of Cochrane, do hereby declare and put forth the following qualifications for demonstrating Professional Competence Equivalence concerning Swayze Township Property, for Charles Mortimer and dated March 26, 1990

1. I am a grade thirteen graduate from Dunbarton High School, in Pickering, Ontario 1976
2. I am a M.R.C. graduate from Centennial College, Scarborough, Ontario 1978.
3. Geological-Technical Course-H.Z. Tittley 1982
4. Geological Drafting Course-Hollinger Mines Ltd. 1983
5. I am a self taught prospector, studying geology and working continuously since May 1980.
6. I have no interest in the Charles Mortimer Property, Swayze Township and will receive no further payment other than my fees.

J. G. Salo
Joe-Anne G. Salo

2.13299

April 15



DOCUMENT No. W 9006-60302
2.132



410155E0035 2.13299 SWAYZE

900

Mining Act

Report of Work (Geophysical, Geological and Geochemical St

Type of Survey(s) <i>magnetometer</i>	Mining Division <i>Peterborough</i>	Township or Area <i>Swayze Twp</i>
Recorded Holder(s) <i>Charles Mortimer</i>	Prospector's Licence No. <i>A-38003</i>	
Address <i>% Halo Exploration Gimbel Cornaught</i>		Telephone No. <i>363-2108</i>
Survey Company <i>Halo</i>		
Name and Address of Author (of Geo-Technical Report) <i>Halo - Gimbel Cornaught Peterborough</i>		Date of Survey (from & to) <i>28 of 90 29 of 90</i>

Special Provisions	Geophysical	Days per Claim	Mining Claim		Mining Claim		Mining Claim	
			Prefix	Number	Prefix	Number		
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	<i>JUL 06 1990</i>		<i>P. 112773</i>				
	- Magnetometer			<i>112774</i>				
For each additional survey: using the same grid: Enter 20 days (for each)	- Other							
	Geological							
	Geochemical							
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim						
	- Electromagnetic							
	- Magnetometer							
	- Other							
	Geological							
	Geochemical							
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim						
	Magnetometer							
	Other							
Total miles flown over claim(s).	Date		Recorded Holder or Agent (Signature)		Total number of mining claims covered by this report of work.		<i>2</i>	

RECEIVED
JUL 06 1990

RECEIVED
APR 27 1990
MINING LANDS SECTION

RECORDED
MAR 15 1990

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in this Report of Work, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying
Halo

Telephone No. *363-2108* Date *March 1/90* Certified By (Signature) *Halo*

For Office Use Only

Total Days Cr. Recorded <i>80</i>	Date Recorded <i>MAR 15/90</i>	Mining Recorder <i>White</i>
Date Approved as Recorded <i>4 July 90</i>	Provincial Manager Mining Lands <i>W. Brown</i>	Received Stamp RECEIVED MAR 15 1990 3:05 PM

DOCUMENT NO.
W 9006-60989

Instructions
- Please type or print.
- Refer to Subsection 77(19), the Mining Act for assessment work requirements and maximum credits allowed under this Subsection.
- Technical Reports, maps and proof of expenditures in duplicate should be submitted to Mining Lands Section, Mineral Development and Lands Branch.

Report of Work
(Expenditures, Subsection 77(19))

Type of Work Performed <i>Assay</i>	Mining Division <i>Perceptive</i>	Township or Area <i>Swayze Township</i>
Recorded Holder <i>Charles Mortimer</i>	Inspector's Licence No. <i>2.13299</i>	<i>A-38003</i>
Address <i>% Halo Explorations - Gen Del Connaught</i>		Telephone No. <i>363-2108</i>
Work Performed By <i>Swastika Laboratories</i>		
Name and Address of Author (of Submission) <i>J H Salo - Gen Del, Connaught Ontario</i>		Date When Work was Performed From: <i>28 01 90</i> To: <i>31 01 90</i> Day Mo Yr Day Mo Yr

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. *See Note No. 1 on reverse side				Mining Claim <i>P1112773</i>	No. of Days <i>60</i>	Mining Claim <i>P1112774</i>	No. of Days <i>60</i>	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days

Instructions Total days credits may be distributed at claim holder's choice. Enter number of days credits per claim in the expenditure days credit column (below).	Calculation of Expenditure Days Credits		Total Number of Mining Claims Covered by this Report of Work
	Total Expenditures <i>\$ 2525^{xx}</i>	$\div 15 =$	Total Days Credits <i>168</i>
			<i>2</i>

Mining Claims (List in numerical sequence). If space is insufficient, attach schedules with required information

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.	Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
<i>P</i>	<i>1112773</i>	<i>60</i>									
<i>P</i>	<i>1112774</i>	<i>60</i>									

RECORDED
MAY 16 1990

RECEIVED
JUN 27 1990

MINING LANDS SECTION

Total Number of Days Performed <i>120</i>	Total Number of Days Claimed <i>120</i>	Total Number of Days to be Claimed at a Future Date <i>nil</i>
--	--	---

Certification of Beneficial Interest *See Note No. 2 on reverse side

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.

Date: _____ Recorded Holder or Agent (Signature): _____

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Address of Person Certifying
J H Salo General Delivery Connaught Ont

Telephone No.
363-2108

Date
Jan 31/90

Certified By (Signature)
J H Salo

For Office Use Only

Total Days Cr. Recorded <i>120</i>	Date Recorded <i>MAY 16/90</i>	Mining Recorder <i>[Signature]</i>
Date Approved as Recorded <i>4 July 90</i>	Provincial Manager Mining Lands <i>[Signature]</i>	Received Stamp <i>RECEIVED MAY 16 1990</i>



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) magnetometer
Township or Area Surge Township
Claim Holder(s) Charles Mortimer
Y. Sato GenDel Connaught
Survey Company J. Sato
Author of Report J. Sato
Address of Author GenDel Connaught Ont.
Covering Dates of Survey Jan 28 - 29/90
(linecutting to office)
Total Miles of Line Cut 3.09 Kilometers

MINING CLAIMS TRAVERSED
List numerically

P. 111277.3
(prefix) (number)
P. 111277.4

If space insufficient, attach list

<u>SPECIAL PROVISIONS CREDITS REQUESTED</u>	Geophysical	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	--Electromagnetic _____	
ENTER 20 days for each additional survey using same grid.	--Magnetometer <u>40</u>	
	--Radiometric _____	
	--Other _____	
	Geological _____	
	Geochemical _____	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: Jan 31/90 SIGNATURE: J. Sato
Author of Report or Agent

Res. Geol. _____ Qualifications 2.13816

Previous Surveys

File No.	Type	Date	Claim Holder

TOTAL CLAIMS 2

OFFICE USE ONLY

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 120 Number of Readings 132

Station interval 25 meters Line spacing 100 meters

Profile scale _____

Contour interval 100 gammas

MAGNETIC

Instrument ISM Protov Precision Magnetometer

Accuracy - Scale constant 1 gamma

Diurnal correction method lined looping with control base station

Base Station check-in interval (hours) one hour

Base Station location and value 20-0100 58597 gammas

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method Time Domain Frequency Domain

Parameters - On time _____ Frequency _____

- Off time _____ Range _____

- Delay time _____

- Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth - include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____