



42A05NE0317 2.9532 CARSCALLEN

010

**REPORT TO HAWK RESOURCES INC.
ON AN OVERBURDEN DRILLING PROGRAM
ON THEIR CARSCALLEN TOWNSHIP PROPERTY
TIMMINS, ONTARIO**

RECEIVED

NOV - 7 1986

MINING LANDS SECTION

C. von Hessert & Associates Ltd.

October 1986



42A05NE0317 2.9532 CARSCALLEN

010C

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1. Introduction	1
2. Summary	1
3. Property Description	2
4. Regional Geology	3
5. Geophysical Surveys	4
a) Magnetic	
b) Horizontal Loop	
6. Overburden Drilling	5
7. Conclusions and Reccommendations	7
8. References	8
9. Certificate of Qualifications	9

Appendix: Assay Certificates and Drill Logs

Figure No. 1: Property Location Map follows page 3

Maps in back pockets

Map No. 1: Plot of Horizontal Loop survey
data 444 Hz. scale 1:2400

Map No. 2: Plot of Horizontal Loop survey
data 888 Hz. scale 1:2400

Map No. 3: Plot of Horizontal Loop survey
data 1777 Hz. scale 1:2400

Map No. 4: Plot of Total Field Proton Precession
Magnetic Survey 1983 and 1986 data. scale 1:2400

Map No. 5: Compilation Map of Hawk Resources
Carscallen Twp Property. Scale 1:2400

1. INTRODUCTION

This report has been prepared for the management of Hawk Resources Inc. to review the results of work conducted on their Carscallen Township property, Timmins, Ontario during the summer and autumn of 1986.

During this period two surveys were conducted; a brief magnetic and horizontal loop geophysical survey which traversed lines cut to fill-in a 1983 grid; and, more importantly, an overburden drill program which tested target areas selected on the basis of 1983 and 1986 field work.

The Carscallen claim group was originally staked in 1981 and has been the subject of a report written by Thomas Skimming for G. M. Ventures. In 1983, C. von Hessert & Associates Ltd. supervised a summer prospecting program on the Carscallen claims. The 1986 work is the result of recommendations made at that time.

The current field work was conducted and supervised by Richard Sproule, F.G.A.C., and Scott Hodges in behalf of C. von Hessert & Associates Ltd.

2. SUMMARY

During the period between the 9th of June and the 5th of July, 1986, twelve miles of in-fill line were cut on the Carscallen Township claims of Hawk Resources Inc. Five miles were surveyed by a total field magnetometer and eleven miles traversed by horizontal loop EM.

Results of the geophysical surveys indicate that potentially gold-bearing iron formation may exist on the Hawk claims. The nearby Jowsey-Denton property on which an occurrence of high-grade gold was discovered in the 1920's is underlain by similar iron formations.

During the period August 18th to August 27th, 1986, a two stage overburden drilling program was conducted on the Carscallen Property. A total of thirty holes totaling 1020 feet were tested with a reverse circulation drill. Because the overburden was too shallow to permit the return of circulation in several areas, it was decided to complete the overburden program using a portable Wacker drill. As a result, an additional thirty four holes were drilled with the Wacker for a total of 221 feet.

Basal till and bedrock fragments (when available) were assayed for gold. One sample returned 110 parts per billion gold and represents an anomaly coincident with weak gold in soil anomalies outlined in 1983. A shallow, three hole diamond drill fence directed across the presumed bedrock strike in the vicinity of the overburden drill anomaly is recommended to explore for gold mineralization.

3. PROPERTY DESCRIPTION

The Hawk Resources Inc. property consists of 20 contiguous unpatented mining claims located in southern Carscallen Township, District of Cochrane, City of Timmins, Ontario.

The claims are numbered as follows;

P649943-P649945

P554946-P654947

P650521-P650525

P650495-P650504

LEGEND

Granitic rocks	5
Ultramafic rocks	4
Felsic Volcanic rocks	3
Mafic Volcanic rocks	2
Fault	
Anticline	
Syncline	



BIGMARSH
LAKE

Original
Jowsey Denton
Claims

Au

Au

Carlton
Lake

DENTON TWP.

Au / 2

Scale 1: 31680

0 0.5 1 mile

HWY 101
PORCUPINE - DESTOR FAULT

CARSCALLEN TWP.

BRISTOL TWP.

3M

2M

1M

HAWK RESOURCES LIMITED

CARSCALLEN TOWNSHIP

District of Cochrane

PROPERTY LOCATION

and

GENERAL GEOLOGY

Prepared by C von Hesser
Drawn by R.T.M and Assoc

October 1983
DWG No. 1

The claim group is easily accessible by a main haulage road of the Mallette Lumber Company which connects with Highway 101, seventeen miles west of downtown Timmins (see Dwg. No. 1, Property Location Map). Leading from this main haulage road is a network of secondary roads which transgress the Hawk claims.

The claims are covered by a thick secondary growth of poplar which has sprung up following extensive clear cut logging.

Rock outcrop is sparse and confined to a relatively small area in the southern tier of claims. Approximately the north one-third of the claim group is wet and marshy and has not been logged.

4. REGIONAL GEOLOGY

Rocks underlying the Hawk Resources claims are Precambrian in age and belong to the Abitibi supergroup of volcanics and associated granitic intrusives. The geology may be viewed on the Cote-Eldorado Sheet, Ontario Department of Mines Map P118 or Map 359 and P23 also published by the Ontario Department of Mines (Ontario Geological Survey). The scale of these maps ranges from 1 inch to 1/4 mile to 1 inch to 1 mile. A lack of detail makes these maps poor guides to local geology. Broadly speaking, the claims appear to be underlain by acid volcanics, mafic volcanics, iron formation and greywacke.

Carscallen Township lies at the west end of the Porcupine-Destor Fault at the point where it eventually disappears. This structural feature is of considerable economic importance because many of the gold mines in the Timmins camp lie on, or within a few kilometers

of the fault and are thought to be genetically related to it.

Late Precambrian diabase dykes striking roughly north-south and crosscutting both volcanic and granitic intrusives are common in Carscallen Township and the entire Timmins camp.

5. GEOPHYSICAL SURVEYS:

a) Magnetic

A total field ground magnetic survey was conducted over five miles of fill-in lines cut on the Hawk Resources Inc. property in 1986. Readings were taken at one hundred foot intervals except in those areas where steep magnetic gradients required additional stations. Data were corrected for diurnal variations and integrated with similar 1983 data. Results are plotted on drawing number 4.

b) Horizontal Loop

A horizontal loop electromagnetic survey was conducted over eleven miles of fill-in lines cut on the Hawk Resources property in 1986. A 100 metre length cable was utilized and readings were taken every 100 feet at 444, 888, and 1777 hertz on an Apex Max-Min II. The data are plotted on drawings 1, 2 and 3. In general, the Max-Min survey results are disappointingly noisy and difficult to interpret. Several weak conductors are evident which probably correlate with graphitic pelites. Conductor traces are integrated with all data available and are plotted on drawing number 5, a compilation map.

The magnetic and EM surveys are consistent with an underlying geology comprised of a suite of steeply dipping generally north south trending volcanics, weak iron formation and pelitic rocks

with sufficient graphite or pyrite to be conductors relative to their surrounding rocks. Magnetic contours and a 1983 VLF-EM survey suggest that these rocks are offset by northwest southeast trending shears which may be appropriate sites for vein type gold mineralization, particularly when they intersect iron formation.

6. OVERBURDEN DRILLING

During the period August 18 through August 27th, 1986, a two stage overburden drilling program was undertaken on the Carscallen Township property of Hawk Resources. Targets were selected on the basis of a 1983 field program composed of soil sampling, geologic mapping, and ground geophysics supplemented by 1986 fill-in geophysics.

Quite early in the program it became evident that the reverse circulation drill chosen for the job was inadequate because in several locations, although outcrop was very sparse, overburden was too thin to allow sample return. Moreover, there were other areas on the claims which were inaccessible to heavy equipment due to swampy ground. As a result, only eighteen holes of a total of thirty nine holes drilled with the reverse circulation drill returned samples. In the course of drilling with this drill, a total of 1020 feet were completed.

Subsequently, a portable Wacker drill was employed to collect samples from those locations where the reverse circulation drill could not function. A total of thirty four sites were tested with the Wacker drill for a total of 221 feet. Unlike the reverse circulation drill which returns a continuous sample and can drill into bedrock for short distances, the Wacker drill only collects a two foot sample from the bottom of the hole and under ideal conditions is capable of retrieving only a small chip of bedrock.

In total, 73 samples were collected and sent to Swastika laboratories for gold fire assay. No attempt was made to perform a size analysis or to separate heavy metals.

Seven samples returned assays greater than nil. A single sample returned an assay of 120 parts per billion gold from a site which is in the vicinity of other relatively low, but anomalous soil gold anomalies discovered in 1983. Because high grade gold is known to occur on the neighbouring Jowsey-Denton claims in a geologic environment thought to be similar to Hawk property, a limited diamond drill program is recommended.

7. CONCLUSIONS AND RECOMMENDATIONS

On the basis of the recently completed overburden drill program and work carried out on adjacent properties from the 1920's to the present day, it can be concluded there exists the possibility that the Hawk claims host vein-type iron formation gold.

Gold occurs on the former Jowsey-Denton (claims 516050 and 51605 shown on drawing number 1.) in association with calcite and quartz gash veins crosscutting iron formation (the wire gold occurrence) and with associated sulfide iron formation.

Overburden drill logs indicate that calcite fragments are present in the till on the Hawk claims. In addition, weak soil gold anomalies and a single overburden drill anomaly suggest that the source may be local.

It is, therefore, recommended that diamond drill holes be placed at the following grid locations 55+75 N., 15+45 W. and at 53+75 N., 16+45 W. with two holes being drilled from each location. The holes would trend north 30° E so as to best intersect the hosting formations and would have an attitude of -45 and -65 degrees.

The program will require a minimum of 750 feet of drilling and is estimated to cost approximately \$30,000 including drilling costs, mobilization and demobilization, supervision, assaying, report preparation and travel expenses.

October 31, 1986


Richard Sproule, FGAC

8. REFERENCES CITED

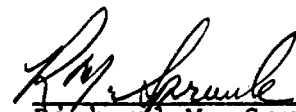
- Skimming - 1981, Report on the Property of G.M. Ventures Ltd.,
Carscallen Township Claims, District of Cochrane
Ontario
- Skimming - 1981, Report on the Property of All Star Resources Ltd.
Carscallen Township Claims, District of Cochrane,
Ontario
- Skimming - 1983 Report on the Property of Cleyo Resources Inc.,
Carscallen Township Claims, Ontario.
- von Hessert - 1983 Report on the 1983 Summer Prospecting Program
on the George Martin Properties, Carscallen
Township, Timmins, Ontario.
- von Hessert - 1983 Report to Cleyo Resources on their 1983
Summer Prospecting Program, Carscallen Town-
ship, Timmins, Ontario.
- von Hessert - 1984 Summary of 1983 Drill Results for Cleyo
Resources Inc. on their Big Marsh Property
Carscallen Township, Porcupine Mining District,
Ontario.
- Geology of the Keefer-Eldorado Area, ODM 47th Annual Report, Vol.
XLVII, Part IV, 1938

9. CERTIFICATE OF QUALIFICATIONS

I, Richard Sproule, of the Town of Beamsville, Regional Municipality of Lincoln, in the province of Ontario, Canada, do hereby certify that:

1. I am a consulting geologist, an associate of the firm of C. von Hessert & Associates Ltd., with an office located at 306-45 Richmond St. West, Toronto, Ontario.
2. I am a graduate of Dalhousie University, Halifax, Nova Scotia, having received the degree of Bachelor of Science (Geology) in 1979. I have practised in the field of mineral exploration since 1976.
3. I am a fellow of the Geological Association of Canada.
4. I conducted and supervised the exploration program carried out on Hawk Resources' Carscallen Township property.
5. I have no interest, direct or indirect, in the properties or securities of Hawk Resources Inc.

October 31, 1986


Richard M. Sproule

Qual.
2.5930

APPENDIX: ASSAY DATA AND OVERBURDEN DRILL LOGS



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 64091

Date: September 3rd, 1986

Received August 25th, 1986 39 Samples of Till

Submitted by Hawk Resources, Vancouver, B.C.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
2573	Nil	2593	10
2574	Nil/Nil	2594	Nil
2575	Nil	2595	Nil
2576	Nil	2596	Nil
2577	Nil	2597	Nil
2578	Nil	2598	Nil
2579	Nil	2599	Nil
2580	Nil	2600	Nil
2581	Nil	2601	Nil
2582	Nil	2602	Nil
2583	20	2603	Nil
2584	110/120	2604	Nil
2585	Nil	2605	Nil
2586	Nil	2606	Nil
2587	Nil	2607	Nil
2588	Nil	2608	Nil
2589	20	2609	Nil
2590	Nil	2610	30
2591	10	2611	60/60
2592	10		

Per *G. Lebel*
G. Lebel - Manager



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis


Certificate No. 64128

Date: September 5th, 1986

Received August 29th, 1986 34 Samples of Till

Submitted by Hawk Resources Ltd., Vancouver, B.C.

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
2612	Nil	2629	Nil/Nil
2613	Nil	2630	Nil
2614	Nil	2631	Nil
2615	Nil	2632	Nil
2616	Nil	2633	Nil
2617	Nil/Nil	2634	Nil
2618	Nil	2635	Nil
2619	Nil	2636	Nil
2620	Nil	2637	Nil
2621	Nil	2638	Nil
2622	Nil	2639	Nil
2623	Nil	2640	Nil
2624	Nil	2641	Nil
2625	Nil	2642	Nil
2626	Nil	2643	Nil/Nil
2627	Nil	2644	Nil
2628	Nil	2645	Nil

Per 
G. Lebel - Manager



ESTABLISHED 1928

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-1

Property: CARSCALLEN

Location: LN 74N 21W

Total Depth: _____
Sheet 1 of 1

DEPTH Feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-14		SAND & SILTY CLAY		
14-28		SILTY CLAY WITH COBBLES ≤ 1Fe THICK OF GRANITE QUARTZ & MAFIC VOLCANICS		
28-38		SANDY CLAY		
38-43		APPLE GREEN INTERMEDIATE VOLCANIC ROCK WITH EPIDOTE & CALCITE & QUARTZ VIGNETTES		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-2

Property: CARSCALLEN

Location: LN 72N 20+50W

Total Depth: 8 feet
Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-4	Trace w/ COBBLES	Mud & Boulders ≤ 2fe Dia. No Return		
4-8	Rock Comp?	Bed Rock? No Return		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-3

Property: CARSCALLEN

Location: LN 68N 19W

Total Depth: 3 feet
Sheet 1 of 1

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-1 ft	<u>TILL</u>	SOIL SANDY LOAM NO RETURN		
1-3 ft	<u>ROCK COMP?</u>	BED ROCK? NO RETURN REACHED INTO HOLE & PULLED OUT. DIORITE CHIPS		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-4

Property: CARSCALLEN

Location: LN 64N 18W

Total Depth: 11 feet
Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-9	TILL	TILL No RETURN		
9-11		Bed Rock? No RETURN		
	Rock Comp?			

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-5

Property: CARSCALLEN

Location: LN 64N 11.75W

Total Depth: 42 feet

Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0 - 39		SANDY CLAY WITH GRANITE QUARTZ & INTERMEDIATE TO MAFIC VOLCANIC Boulders .5-2 FE Dia. @ 12-14 FE & 24-34 FE		
39 - 39 42		EPIDOTIZED (APPLE GREEN) INTERMEDIATE TO FELSIC VOLCANICS FROM 40-42 FE. QUARTZ VIOLETS COMMON. THIS ZONE ALSO CONTAINS 1-2% PYRITE		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

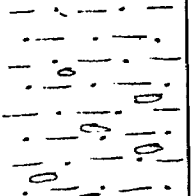
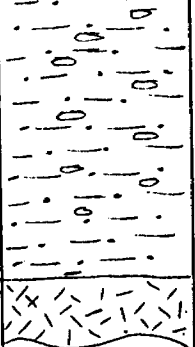
Drill Hole No.: HR-6

Property: CARSCALLEN

Location: LN 60N 161 50W

Total Depth: 29 feet

Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-26		TILL SANDY CLAY FROM 4-24 FE COBBLES OF GRANITE & MAFIC VOLCANICS ARE FREQUENTLY PENETRATED		
26-29		INTERMEDIATE VOLCANICS WITH THIN QUARTZ VEINS & MINOR << 1% AMOUNTS OF PYRITE		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

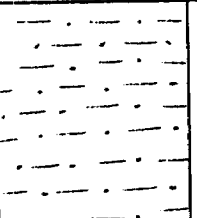
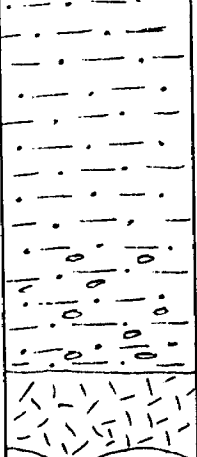
Drill Hole No.: HR-7

Property: CARSCALLEN

Location: LN 60N 18W

Total Depth: 34 feet

Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-30		TILL SANDY CLAY 24-30 FE COBBLES ≤ 1 FE DIA COMMON COBBLES ARE GRANITIC & INTERMEDIATE TO MAFIC VOLCANIC		
30-34		INTERMEDIATE TO MAFIC VOLCANIC NO QUARTZ VEINING = 1% PYRITE		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-8

Property: CARSCALLON

Location: LW 56N 15W

Total Depth: 42 Feet

Sheet 1 of

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0 - 24		TILL POOR RETURN TO 14 feet 14-24 FE GRANITE & FELSIC VOLCANIC COBBLES ≤ 1 FE COMMON		
24 - 28 FE		SAND		
28 - 30 FE		SANDY CLAY		
30 - 32 FE		SANDY CLAY WITH FINE GRAVEL		
32 - 38		CLAYEY SAND TO SANDY CLAY		
38 - 41		SAND GRADING TO CLAYEY SAND BY 4 FE		
41 - 42		GRANODIORITE. MILKY QUARTZ 40% BLACK FERRO MAGNESIAN MINERALS 40% ^{50%} PYRITE ≤ 1%		

C. VON HESSERT & ASSOCIATES LIMITED

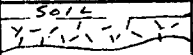
CLIENT: Hawk Resources

Drill Hole No.: HR 9

Property: CARSCALLEN

Location: LN 54 N 14 W

Total Depth: 1 foot
Sheet 1 of

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0 - .5 ft	<i>SOIL</i> 	SOIL No RETURN		
.5 - 1 ft		FELSIC VOLCANIC No RETURN		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

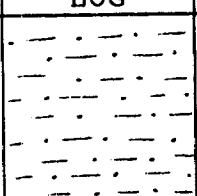
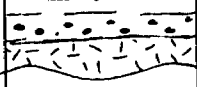
Drill Hole No.: HR-10

Property: CARSCALLEN

Location: LN 54N 16W

Total Depth: 12 feet

Sheet 1 of

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-11 fe		TILL 0-10 fe SANDY CLAY 10-11 fe GRAVELLY ZONE		
11-12 fe		INTERMEDIATE VOLCANICS WITH ~ 20% QUARTZ CHIPS LOST RETURN		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-11

Property: CARSCALLEN

Location: LN 50 N 13 W

Total Depth: 13 feet

Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-12		TILL No RETURN		
12-13	TILL	Rock No RETURN		
	Rock Comp?			

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-12

Property: CARSCALLEN

Location: LN 48N 12W

Total Depth: 3 feet

Sheet 1 of _____

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-2 ft	TILL ROCK COMP?	TILL No RETURN		
2-3 ft		ROCK No RETURN		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-13

Property: CARSCALLEN

Location: LN 44N 16W

Total Depth: 0.3 feet

Sheet 1 of 1

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-2 ft		Tile No RETURN		
2-3 ft		Rock No RETURN		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-14

Property: CARSCALLEN

Location: LN 34 N 7 W

Total Depth: 11 feet

Sheet 1 of _____

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-7		TILL No RETURN		
7-11		ROCK No RETURN		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-14a

Property: CARSCALLON

Location: LN 48 N 8W

Total Depth: 1 FE Sheet 1 of

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
		TRIED TO MOVE ON SITE TO GET GOT DRILL STUCK		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-15

Property: CARSCALLEN

Location: LN 32N 7W

Total Depth: 42 FE

Sheet 1 of 1

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-39		<p>TILL 0-27 COARSE MIXED SAND & CLAY</p> <p>22-23 INTERMEDIATE TO FELSIC VOLCANIC Boulder</p> <p>23-39 SANDY CLAY GRANITE & MAFIC VOLCANIC CBBLES 5 FE DIA COMMON FROM 24-30 FE</p>		
39-42		<p>INTERMEDIATE TO FELSIC VOLCANIC</p> <p>LAST RETURN @ 40 FE</p>		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-15a

Property: CARSCALLEN

Location: LN 30N 11+50W

Total Depth: 24 feet

Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-24		TILL 0-16 FE SANDY CLAY FELSIC VOLCANIC COBBLES ≤ 1 FL @ 1 & 12 FE 16-19 FE GRANITE (PINK) BOULDER 19-20 FE SANDY CLAY WITH GRANITE & INTERMEDIATE VOLCANIC PEBBLES INTERMEDIATE VOLCANIC WITH MINOR QUARTZ VIGNING.		
20-24				

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

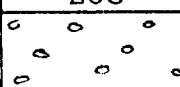
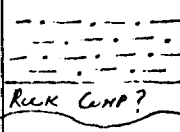
Drill Hole No.: HR-16

Property: LN 32N 10W

Location: LN32N 10W

Total Depth: 23 feet

Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-23		TILL VIRTUALLY NO RECOVERY TO 18 ft MANY COBBLES 1-2 ft. SANDY CLAY 18-21 ft ROCK LOST RECOVERY @ 21 ft		
21-23	 <p>ROCK CAP?</p>			

C. VON HESSERT & ASSOCIATES LIMITED



CLIENT: Hawk Resources

Drill Hole No.: HR-19

Property: CARSCALLEN

Location: LN 36N 6W

Total Depth: 9 feet
Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-7		SANDY TILL		
7-9		MAFIC VOLCANIC WITH 20% PYRITE LOST RETURN @ 9 FE		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-20

Property: CARSCALLEN

Location: LN 36N 8W

Total Depth: 7 feet

Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-6		TILL		
6-7		ROCK No RETURN		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-21

Property: CARSCALLEN

Location: LN 3BN 7+50W

Total Depth: 11 ft

Sheet 1 of 1

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-10 ft		TILL NO RETURN		
10-11 ft		ROCK NO RETURN		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-22

Property: CARSCALLEN

Location: R.O. LN 55N

Total Depth: 46 ft

Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0 - 14		COARSE SAND (GRANITIC & VOLCANIC GRAINS)		
14 - 24		NO RETURN COARSE SAND? & BOULDERS > 1 FT DIA		
24 - 32		COARSE SAND & GRAVEL (FINE) FEW BOULDERS		
32 - 34		CLAY & SANDY CLAY		
34 - 42		NO RETURN		
42 - 44		SILTY CLAY		
44 - 46		FELSIC VOLCANIC.		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-23

Property: CARSCALLEN

Location: LN 56N 3E

Total Depth: 113 feet
Sheet 1 of 2

DEPTH Feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-24		SAND WITH MINOR AMOUNTS OF CLAY COBBLES 2/8" ENCOUNTERED BELOW 14 FT		
24-34		MEDIUM GRAINED SAND ONLY 2 BOULDERS ENCOUNTERED 1 GRANITIC 1 BIOTITE GNEISS		
34-48		COARSE SAND CONTAINING NUMEROUS COBBLES OF VARIOUS LITHOLOGY IS GRANITIC INTERMEDIATE VOLCANICS, SANDSTONE & QUARTZ		
48-49		SILTY CLAY		
49-60		COARSE SAND		
60-62		CLAY TO SILTY CLAY		
62-64.5		BOULDER GRANITIC TO 64 64-64.5 SANDY CLAY		
64.5-68		PYRITIC VOLCANIC TUFF		
68-74		SANDY CLAY ONLY 1 QUARTZ COBBLE INTERSECTED		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-23

Property: CARSCALLEN

Location: _____

Total Depth: 113 feet
Sheet 2 of 2

DEPTH Feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
74-80		SANDY CLAY		
80-82		CLAY		
82-84		SANDY CLAY		
84-87		CLAY		
87-89		INTERMEDIATE VOLCANIC BOULDER		
89-94		SANDY CLAY		
94-95.5		INTERMEDIATE VOLCANIC BOULDER		
96-100		SANDY CLAY		
100-104		SAND		
104-113		PYRITIC CLAY & SAND RODS JAMMED IN THE CLAY @ 113 HAD TO ABANDON THE HOLE		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR 24

Property: CARSCALLEN

Location: LN 60N 2⁰⁰E

Total Depth: 114 ft

Sheet 1 of 2

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-14		SANDY CLAY POOR RETURN		
14-24		NO RETURN		
24-34		VERY LITTLE RETURN MAINLY SILT & VERY FINE GRAINED SAND		
34-40		NO RETURN		
40-42		CLAYGY SAND		
42-43		COARSE QUARTZ BIOTITE SAND		
43-44		SANDY CLAY		
44-52		COARSE GRAVEL		
52-54		SANDY CLAY		
54-58		SANDY SILTY CLAY		
58-59		QUARTZ BIOTITE & GRANITE COBBLES		
59-70		SILTY SANDY CLAY		

C. VON HESSERT & ASSOCIATES LIMITED

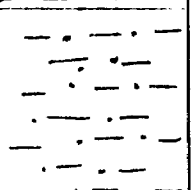
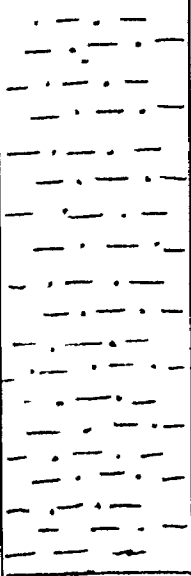

CLIENT: Hawk Resources

Drill Hole No.: HR 24

Property: CARSCALLEN

Location: LN 60N 2700E

Total Depth: 114 feet
Sheet 2 of 2

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
70 - 71		CLAY		
71 - 110		SANDY CLAY THROUGH OUT EXCEPT FOR THE 74 - 84 FE INTERVAL WHERE 4 INTERMEDIATE VOLCANIC STONES < 1 FE DIAMETER WERE INTERSECTED		
110 - 114		GREY STILKY CLAY BOUND RODS HAD TO ABANDON HOLE		

C. VON HESSERT & ASSOCIATES LIMITED

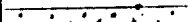
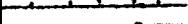



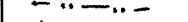
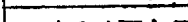


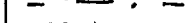
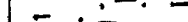
CLIENT: Hawk Resources

Drill Hole No.: HR-25

Property: CARSCALEN

Location: LN 60N @ B0

Total Depth: 86 Feet
Sheet 1 of 2

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-24		NO RETURN		
24-25		VERY FINE GRAINED SAND		
25-26		LOST RECOVERY		
26-27		FINE GRAINED SAND & SILT		
27-34		SANDY SILTY CLAY FROM 34-44 Feet		
		NUMEROUS GRANITE & MAFIC VOLCANIC COBBLES		
		20.5 FE INTERSECTED		
44-80 ft		SANDY CLAY 44-74 COBBLES of		
		GRANITE QUARTZITE & MAFIC VOLCANIC COMMON		
		FROM 64-74 41% PYRITE FOUND IN THE		
		MATRIX MAFIC VOLCANIC.		
70 ft →				

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

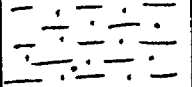
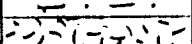
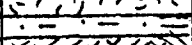

Drill Hole No.: HR-25

Property: CARSCALLEN

Location: LN 60N @ B0

Total Depth: 86 ft

Sheet 2 of 2

DEPTH Feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
44-80				
80-82		INTERMEDIATE VOLCANIC BOULDER SANDY CLAY		
82-83				
83-86		PYRITIC QUARTZITE		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR 26

Property: CARSCALLEN

Location: LN 64N 1450W

Total Depth: 122 feet

Sheet 1 of 2

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-14		NO RETURN		
14-24		FINE TO MEDIUM GRAINED SAND		
24-50		COARSE SAND		
50-54		CLAYEY SAND GRADING TO SANDY CLAY BY 52 ft.		
54-80		SILTY CLAY NUMEROUS COBBLES 54-64 ft BASALT & PYRITIC DIORITE $P_4 \leq 1\%$ 64-74 ft FEW COBBLES		

C. VON HESSERT & ASSOCIATES LIMITED

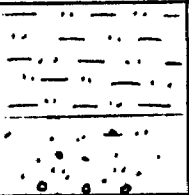
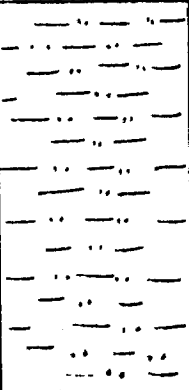

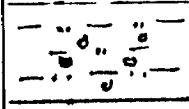

CLIENT: Hawk Resources

Drill Hole No.: HR-26

Property: CARSCAMEN

Location: LN 64N 1+50W

Total Depth: 122 ft
Sheet 2 of 2

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
80-84		A MIX OF SILT SAND & FINE GRAVEL		
84-104		SILTY CLAY WITH NUMEROUS CONALES OF VARIED LITHOLOGY		
104-114		COARSE SAND W/ COARSE GRAVEL		
114-119		SILTY CLAY WITH FINE GRAVEL		
119-122		CLAY RODS SINK HAD TO ABANDON HOLE		

C. VON HESSERT & ASSOCIATES LIMITED

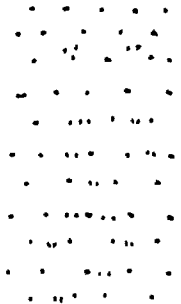


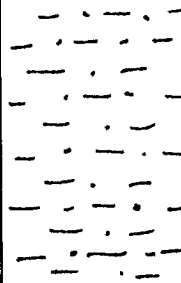
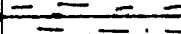
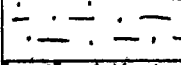

CLIENT: Hawk Resources

Drill Hole No.: HR-27

Property: CARSCALLEN

Location: LN 64N 12E

Total Depth: 55 ft
Sheet 1 of 1

DEPTH Feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-14		SAND & SILT WITH FINE GRAVEL		
14-24		FINE GRAVEL & COARSE SAND		
24-34		COARSE SAND CHANGING TO SANDY CLAY BT 34 FE		
34-49		SANDY CLAY VERY FEW COBBLES. / GRANITE POWDER INTERSECTED 45-46 FE		
49-50		CLAY		
50-54		SANDY CLAY ^{COBBLES} COMMON 52-54 FE USUALLY MAFIC VOLCANIC & QUARTZ BIOTITE COMPOSITION		
54-55		QUARTZITE COULD ONLY DRILL 1 FOOT INTO THIS WHEN BIT WORE OUT. ABANDONED HOLE		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-28

Property: CARSCALLEN

Location: LN 76N 22100W

Total Depth: 14

Sheet 1 of 1

DEPTH	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-12		OVERBURDEN No RETURN		
12-14		BED ROCK ? No RETURN		

C. VON HESSERT & ASSOCIATES LIMITED

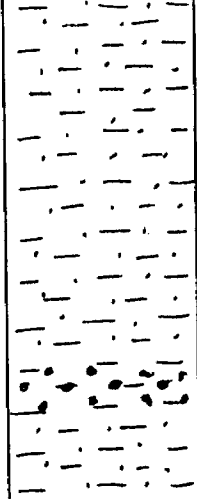
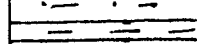
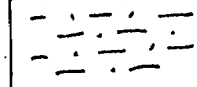

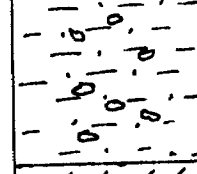

CLIENT: Hawk Resources

Drill Hole No.: HR-29

Property: CARSCALLI

Location: LN 72N 17100W

Total Depth: 46 feet
Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0 - 13 27		0-27 FE PRIMARILY SANDY CLAY ONE GRAVEL ZONE 20-22 FE		
27-28		CLAY		
28-33		SANDY CLAY		
33-34		GRANITE BOULDER		
34-43		SANDY CLAY COBBLES COMMONLY INTERSPERSED GENERALLY MAFIC TO INTERMEDIATE VOLCANIC COMPOSITION		
43-46		INTERMEDIATE TO MAFIC VOLCANIC		

C. VON HESSERT & ASSOCIATES LIMITED

CLIENT: Hawk Resources

Drill Hole No.: HR-30

Property: CARSCALLEN

Location: LN 68N 15+00W

Total Depth: 36 feet

Sheet 1 of 1

DEPTH feet	GRAPHIC LOG	DESCRIPTION	SAMPLE	
			NO.	Depth
0-10		No RETURN		
10-14		SANDY, SILTY CLAY		
14-26		SILTY CLAY		
26-32		SANDY CLAY WITH COARSE SAND LAYERS		
32-36		INTERMEDIATE TO MAFIC VOLCANIC WITH CALCITE VENULETS (1/2 - 1/4 INCH THICK) AND MINOR AMOUNTS OF PYRITE (5%)		

Wacker Drill Program Results
Hawk Resources' Carscallen Twp. Property

Sample Number	Sample Location	Type of Sample	Bed rock chip	Depth of Hole	Assay Value ppb. gold
2612	Ln 36N 6W	sand	none	7 ft.	Nil
2613	36N 7W	sand+silt	"	9.5 "	Nil
2614	36N 8W	silt+sand	none	4.5 "	Nil
2615	36N 9W	sand	Qtzite	4 "	Nil
2616	Ln 38N 10W	sand	M. volc.	8 "	Nil
2617	38N 9W	clay+sand	diabase	8 "	Nil/Nil
2618	38N 8W	sand	none	9.5 "	Nil
2619	38N 7W	sand	diorite?	12 "	Nil
2620	Ln 40N 7W	clay+sand	none	12 "	Nil
2621	40N 8W	sand+silt	grywcke	3 "	Nil
2622	40N 9W	clay+silt	M. volc.	8 "	Nil
2623	40N 990W	Loam	M. volc.	2 "	Nil
2624	Ln 42N 10W	Loam	diabase	1 "	Nil
2625	42N 11W	sand	quartz	1 "	Nil
2626	LN 44N 11W	sand+silt	F. volc.	6.5 "	Nil
2627	44N 12W	silt+loam	diabase	1 "	Nil
2628	44N 13W	silt+sand	M. volc.	2 "	Nil
2629	44N 14W	sand+silt	F. volc.	5 "	Nil/Nil
2630	44N 15W	sand+silt	granite	5 "	Nil
2631	44N 16W	clay+silt	quartz	2 "	Nil
2632	Ln 46N 12W	sand+silt	quartz	1 "	Nil
2633	46N 14W	sand+silt	none	1.5 "	Nil
2634	46N 15W	clay+silt	Int. volc.	1 "	Nil
2635	46N 16W	loam	Int. volc.	1.5 "	Nil
2636	Ln 48N 8W	clay+sand	Int. volc.	22 "	Nil
2637	48N 12W	sand+silt	F. volc.	5.5 "	Nil
2638	Ln 50N 13W	silt+sand	none	12 "	Nil
2639	Ln 54N 14W	sand	none	9 "	Nil
2640	Ln58N 1550W	clay+silt	none	24 "	Nil
2641	Ln 62N 17W	sand	none	4 "	Nil
2642	Ln 64N 18W	sand	none	8 "	Nil
2643	Ln66N 1850W	sand	none	1 "	Nil/Nil
2644	Ln 68N 19W	sand+clay	Int. volc.	7 "	Nil
2645	Ln72N 2050W	sand+moss	Int. volc.	12 "	Nil

348/86
J.F.



42A05NE0317 2.9532 CARSCALLEN

900

Type of Work(s) **HORIZONTAL LOOP EM AND OVERBURDEN DRILLING** | **CARSCALLEN**

Claim Holder(s) **HAWK RESOURCES** | Prospector's Licence No. **T 4674**

Address **805-475 HOWE ST VANCOUVER B.C. V6C 2B3**

Survey Company **C. VON HESSERT & ASSOCIATES LIMITED** | Date of Survey (from & to) **9 6 86 28 8 86** | Total Miles of line Cut **12**

Name and Address of Author (of Geo-Technical report) **RICHARD SProuLE % C. VON HESSERT & ASSOCIATES LTD 306 45 RICHMOND ST. W. TORONTO**

Special Provisions	Geophysical	Days per Claim
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic	
	- Magnetometer	
For each additional survey: using the same grid: Enter 20 days (for each)	- Radiometric	
	- Other Max Min 20	
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Electromagnetic	Days per Claim
	Magnetometer	
	Radiometric	

Mining Claim		Expend. Days Cr.
Prefix	Number	
P	649943	60
	649944	60
	649945	60
	649946	60
	649947	60
	650495	60
	650496	60
	650497	60
	650498	60
	650499	60
	650500	60
	650501	60
	650502	60
	650503	60
	650504	60
	650521	60
	650522	60
	650523	60
	650524	60
	650525	60

Mining Claim		Expend. Days Cr.
Prefix	Number	
P	Geophysical	Max-M
	only on following:	
	649943	
	649944	
	649945	
	649946	
	649947	
	650497	
	650498	
	650499	
	650501	
	650502	

RECORDED
NOV 12 1986

Expenditures (excludes power stripping)

Type of Work Performed **Overburden Drilling** | Station(s) **(1119)**

Performed on Claim(s) **P 649943, 649944, 649945, 649947, 650497, 650522, 650523, 650525**

Calculation of Expenditure Days Credits

Total Expenditures	Total Days Credits
\$ 23 696 52	15 = 1579

Total number of mining claims covered by this report of work **20**

For Office Use Only

Total Days Cr. Date Recorded **1107.12/86** | Mining Record **1400**

Date Approved as Recorded **11/12/86** | Branch Director

Instructions: **RECEIVED**

Recorded Holder or Agent (Signature) **Richard Sproule**

Date **NOV 12 1986**

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 Postal Address of Person Certifying **Richard M. Sproule % C. von Hessert & Associates Ltd 306 45 Richmond St W Toronto Ont**

Date Certified **Nov 12 1986** | Certified by (Signature) **[Signature]**

April 24, 1987

Your File: 348/86
Our File: 2.9532

Mining Recorder
Ministry of Northern Development and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir:

RE: Notice of Intent dated April 3, 1987
Geophysical (Electromagnetic) Survey
and Overburden Drilling on Mining
Claims P 649943, et al, in Carscallen Township

The assessment work credits, as listed with the above-mentioned
Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and
so indicate on your records.

Yours sincerely,

J.C. Smith, A/Manager
Mining Lands Section
Mineral Development and Lands Branch
Mines and Minerals Division

Whitney Block, Room 6610
Queen's Park
Toronto, Ontario
M7A 1W3

Telephone: (416) 965-4888

DK/mc

cc: Hawk Resources
Suite 305
475 Howe Street
Vancouver, B.C.
V6C 2B3

Resident Geologist
Timming, Ontario

C. von Hessert & Associates Ltd
Suite 306
45 Richmond Street West
Toronto, Ontario
M5H 1Z2
Attention: Mr. Richard M. Sproule

Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Encl.



Recorded Holder	HAWK RESOURCES
Township or Area	CARSCALLEN TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input type="checkbox"/> Ground <input type="checkbox"/> <input type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	<p>\$23,686.32 SPENT ON ANALYSES OF SAMPLES TAKEN FROM MINING CLAIMS:</p> <p>P 649943 to 45 inclusive 649947 650497 650522-23 650525</p> <p>1579 ASSESSMENT WORK DAYS ARE ALLOWED WHICH MAY BE GROUPED IN ACCORDANCE WITH SECTION 76(6) OF THE MINING ACT.</p>

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 80; Geological - 40; Geochemical - 40; Section 77(19) - 60.



Recorded Holder
HAWK RESOURCES

Township or Area
CARSCALLEN TOWNSHIP

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ 15 _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical _____ days Man days <input type="checkbox"/> Airborne <input type="checkbox"/> Special provision <input checked="" type="checkbox"/> Ground <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> Credits have been reduced because of partial coverage of claims. <input type="checkbox"/> Credits have been reduced because of corrections to work dates and figures of applicant.	P 649943 to 47 inclusive 650497 to 99 inclusive 650521 -22

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

not sufficiently covered by the survey insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical - 60; Geological - 40; Geochemical - 40; Section 77(19) - 60.

C. VON HESSERT & ASSOCIATES LTD.
SUITE 306 - 45 RICHMOND STREET WEST
TORONTO, ONTARIO M5H 1Z2

(416) 863-6796

March 23, 1987

Mr. Dennis Kinvig
Ministry of Northern Development
and Mines
Mining Lands Section
Room 6610
Whitney Block
Queen's Park
Toronto, Ontario
M7A 1W3

Dear Mr. Kinvig

Re: your file No. 2.9532

As you requested in your letter of February 20, 1987, find enclosed a sheet containing sample numbers, grid location, claim No., and depth of sample, for sample numbers 2573 to 2611 inclusive.

I trust that I have not overlooked any other particulars in the report. However, if I have please do not hesitate to contact me at the above address.

Sincerely,

Richard M. Sproule

RECEIVED

MAR 24 1987

MINING LANDS SECTION

Hawk Resources Carscallen Twp.
Reverse Circulation
Sample Locations

Sample #	Hole #	Location	Claim No.	Sample depth Ft.
2573	HR 1	74 N, 21 W	P. 649947	24 - 34
2574	HR 1		"	34 - 44
2575	HR 4	64 N, 18 W	649944	0 - 11
2576	HR 5	64 N, 11+75W	649944	24 - 34
2577	HR 5		"	34 - 42
2578	HR 6	60 N, 16+50W	649944	14 - 24
2579	HR 6		"	24 - 29
2580	HR 7	60 N, 18 W	649944	24 - 30
2581	HR 7		"	30 - 34
2582	HR 8	56 N, 15 W	649943	34 - 40
2583	HR 8		"	40 - 42
2584	HR 10	54 N, 16 W	649943	0 - 12
2585	HR 11	50 N, 13 W	649943	0 - 13
2586	HR 15	32 N, 7 W	650523	34 - 39
2587	HR 15		"	39 - 40
2588	HR 15A	30 N, 11+50W	650522	14 - 22
2589	HR 15A		"	22 - 24
2590	HR 16	32 N, 7 W	650523	0 - 14
2591	HR 16		"	14 - 24
2592	HR 17	32 N, 10+25W	650523	0 - 14
2593	HR 19	36 N, 6 W	650523	0 - 9
2594	HR 20	36 N, 8 W	650523	0 - 7
2595	HR 22	BL 0, 55 N	650525	34 - 44
2596	HR 22		"	44 - 46
2597	HR 23	56 N, 3 E	650525	94 - 104
2598	HR 23		"	104 - 110
2599	HR 24	60 N, 2 E	649945	94 - 104
2600	HR 24		"	104 - 114
2601	HR 25	BL 0, 60 N	649945	74 - 84
2602	HR 25		"	84 - 86
2603	HR 26	64 N, 1+50W	649945	104 - 114
2604	HR 26		"	114 - 122
2605	HR 27	64 N, 12 E	650497	44 - 54
2606	HR 27		"	54 - 55
2607	HR 28	76 N, 22 W	649947	0 - 14
2608	HR 29	72 N, 17 W	649947	34 - 44
2609	HR 29		"	44 - 46
2610	HR 30	68 N, 15 W	649944	24 - 34
2611	HR 30		649944	34 - 36

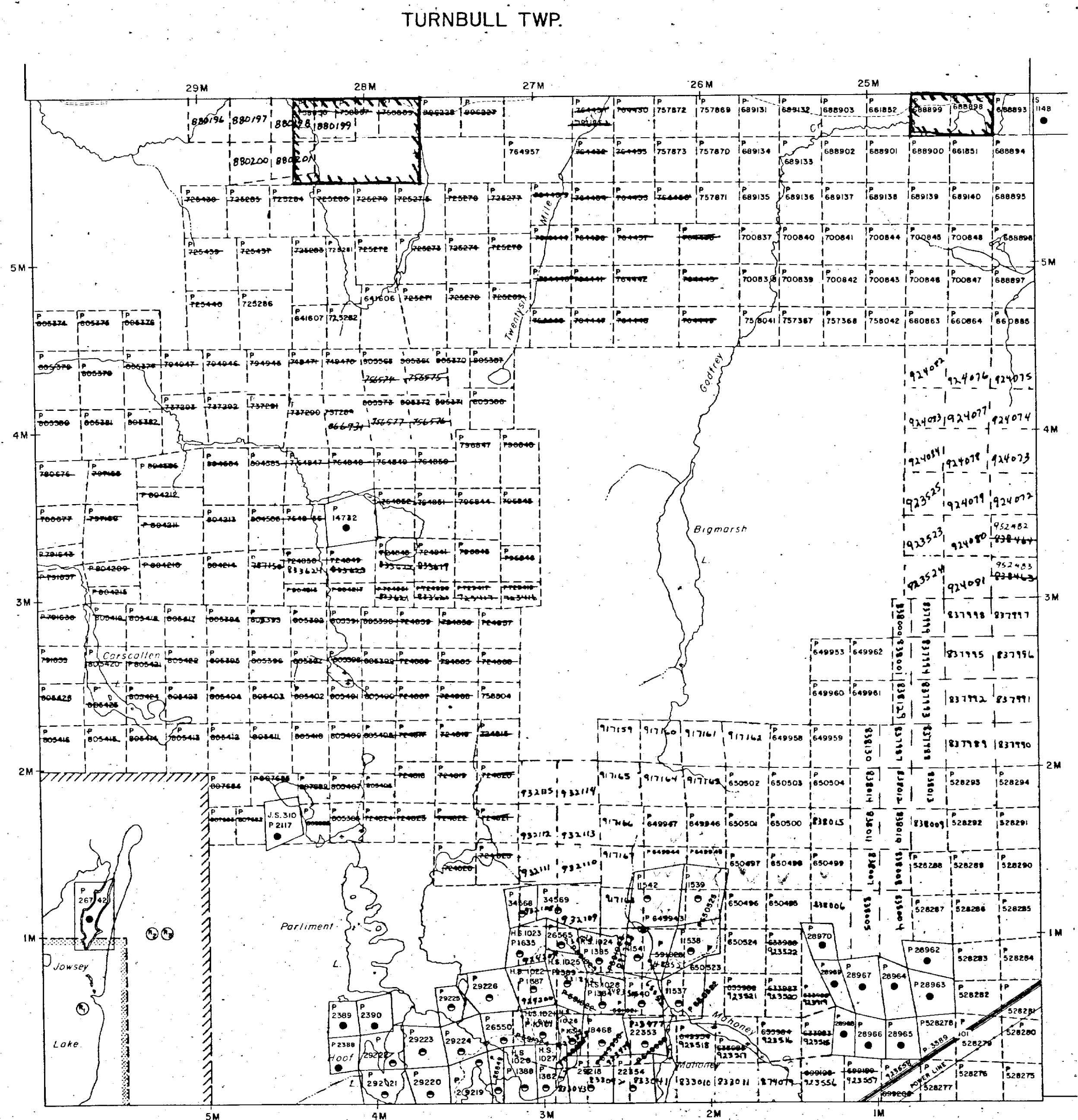
REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M.+S. - MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File
Sec 42 (R.S.O. '60)			M.S.	171506
			S.R.O.	171506
Sec 36/80	W64/83		M.R.O.	

WHITESIDES TWP.



DENTON TWP.

LEGEND

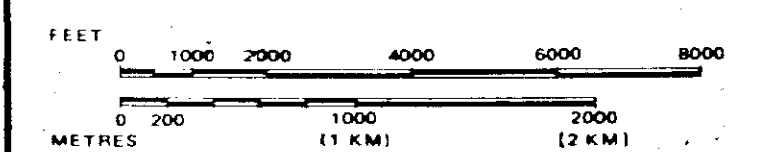
- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
 - TOWNSHIPS, BASE LINES, ETC.
 - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
 - LOT LINES
 - PARCEL BOUNDARY
 - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	○
" MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◼
" MINING RIGHTS ONLY	◻
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.

SCALE: 1 INCH = 40 CHAINS



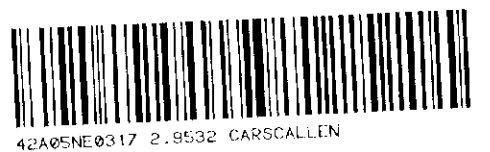
RESERVED MNR
FEB 27 1987

TOWNSHIP
CARSCALLLEN
M.N.R. ADMINISTRATIVE DISTRICT
TIMMINS
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
COCHRANE

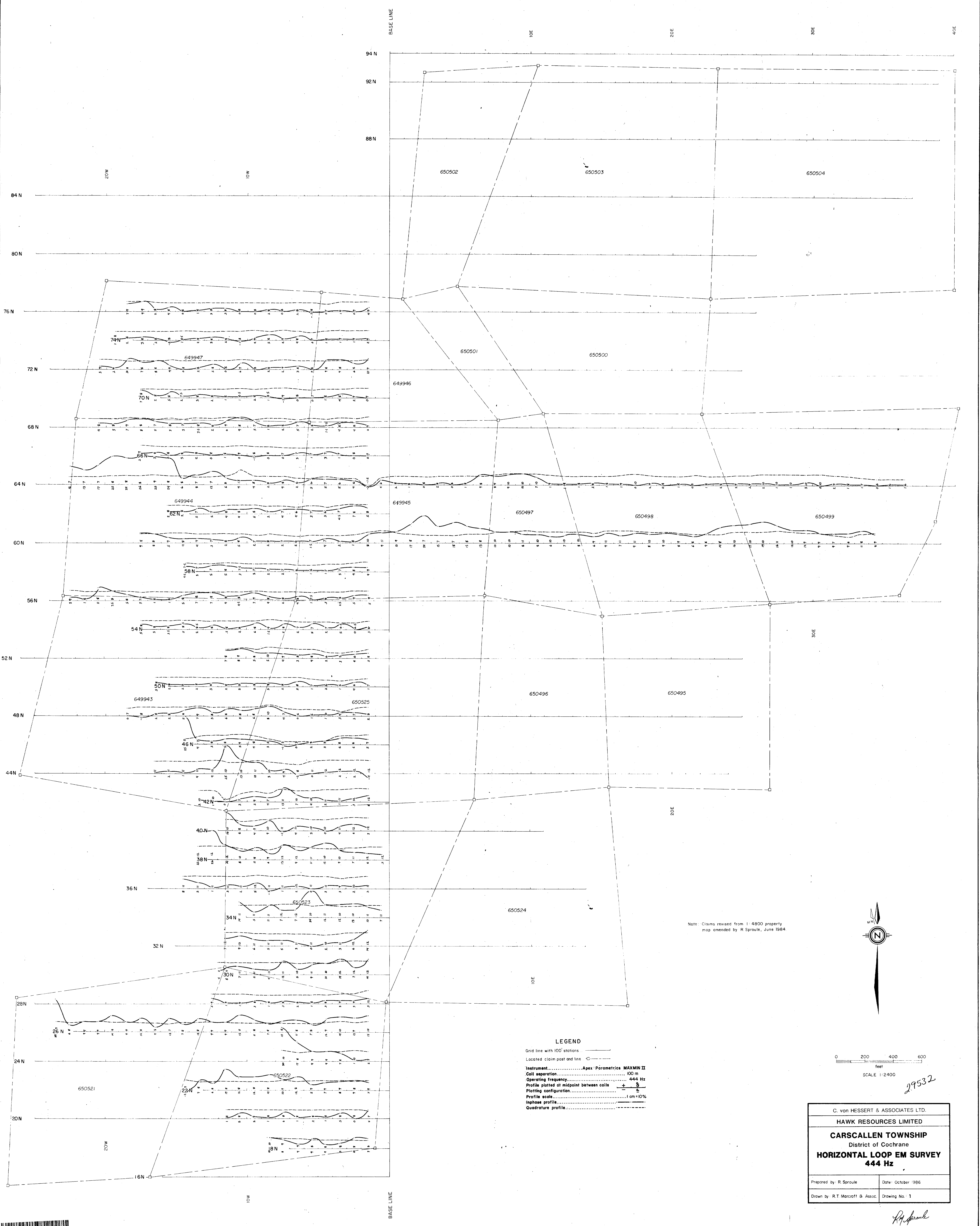
Ontario Ministry of Natural Resources Land Management Branch

Date SEPTEMBER, 1984 Number
Checked Oct 3/84
Filed

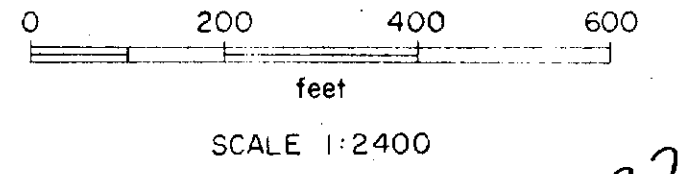
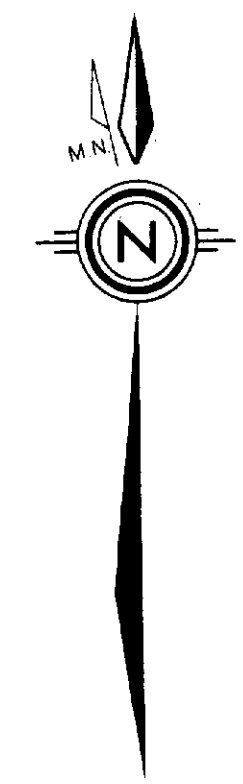
G-3040



42A05NE0317 2.8532 CARSCALLLEN



Note: Claims revised from 1:4800 property map amended by R Sproule, June 1984

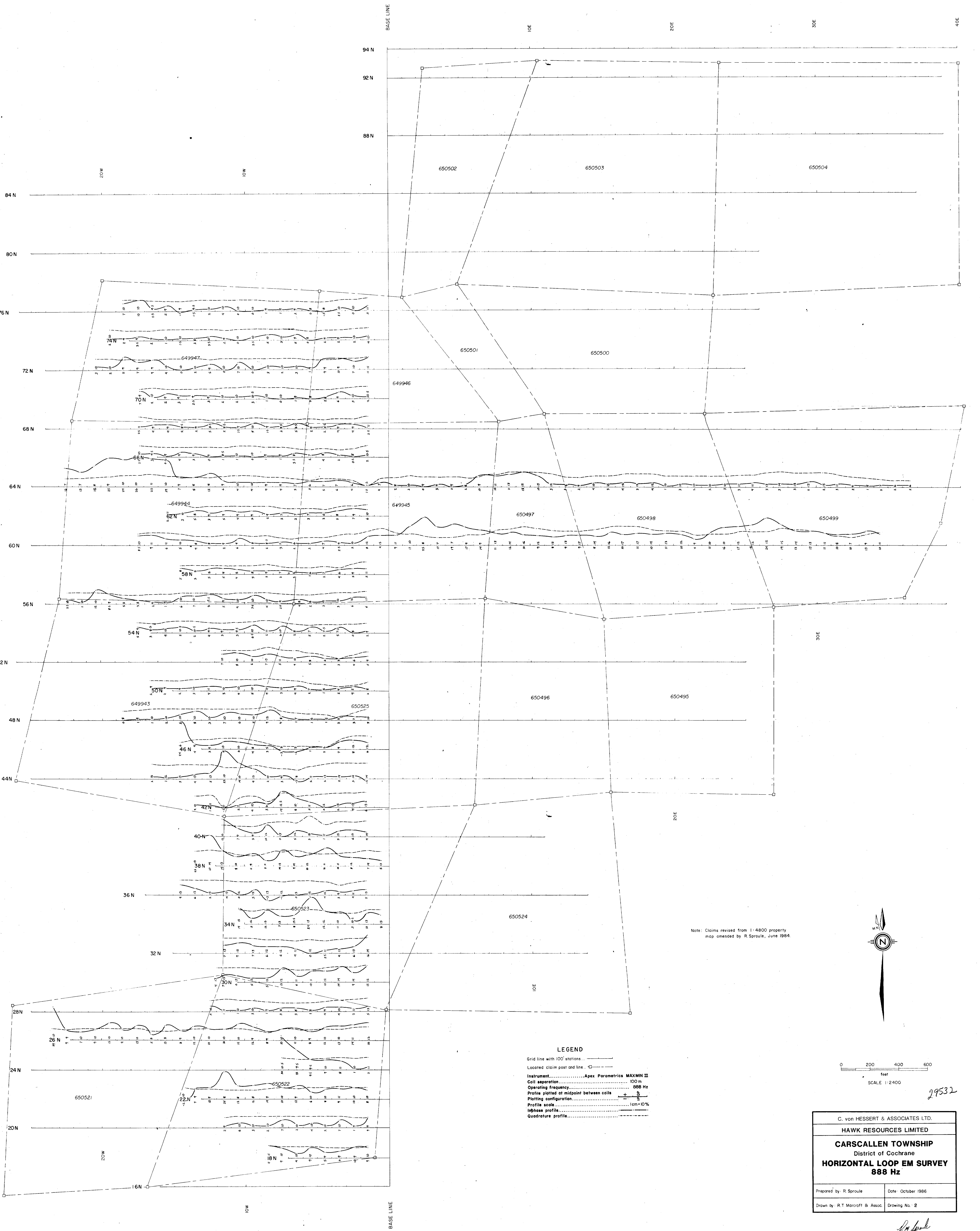


29532

LEGEND
 Grid line with 100' stations
 Located claim post and line
 Instrument.....Apex Parametrics MAXMIN II
 Coil separation.....100 m
 Operating frequency.....444 Hz
 Profile plotted at midpoint between coils
 Plotting configuration.....
 Profile scale.....1 cm = 10%
 Inphase profile.....
 Quadrature profile.....

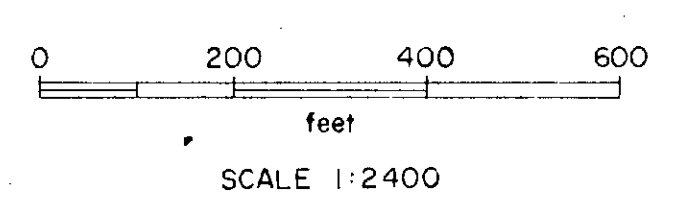
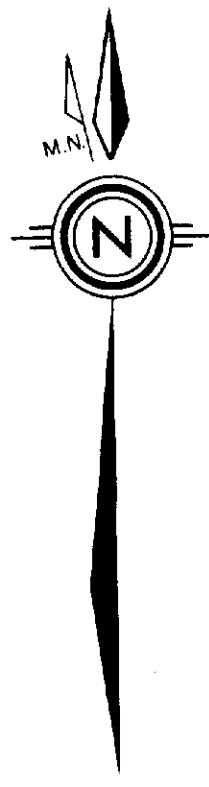
C. von HESSERT & ASSOCIATES LTD.	
HAWK RESOURCES LIMITED	
CARSCALLEN TOWNSHIP	
District of Cochrane	
HORIZONTAL LOOP EM SURVEY	
444 Hz	
Prepared by: R. Sproule	Date: October 1986
Drawn by: R.T. Macroft & Assoc.	Drawing No.: 1

R.T. Macroft



Note: Claims revised from 1:4800 property map amended by R. Sproule, June 1984.

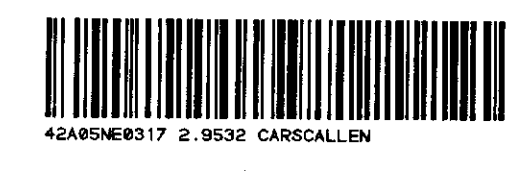
LEGEND
 Grid line with 100' stations...
 Located claim post and line...
 Instrument.....Apex Parametrics MAXMIN II
 Coil separation.....100 m
 Operating frequency.....888 Hz
 Profile plotted at midpoint between coils...
 Plotting configuration.....
 Profile scale.....1cm=10%
 Inphase profile.....
 Quadrature profile.....

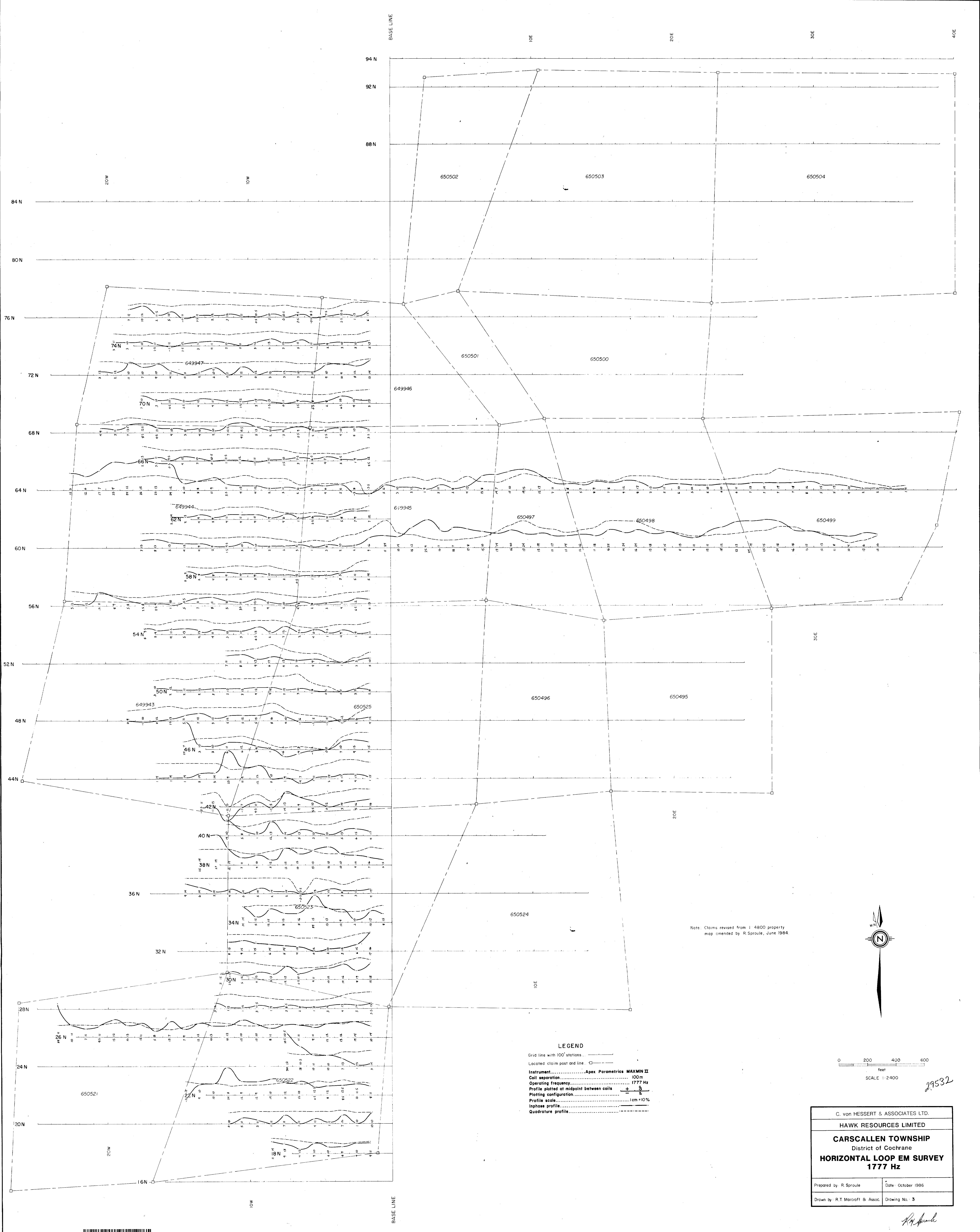


29532

C. von HESSERT & ASSOCIATES LTD.	
HAWK RESOURCES LIMITED	
CARSCALLEN TOWNSHIP District of Cochrane	
HORIZONTAL LOOP EM SURVEY 888 Hz	
Prepared by: R. Sproule	Date: October 1986
Drawn by: R.T. Marcoff & Assoc.	Drawing No.: 2

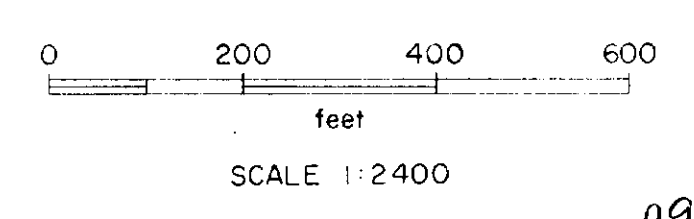
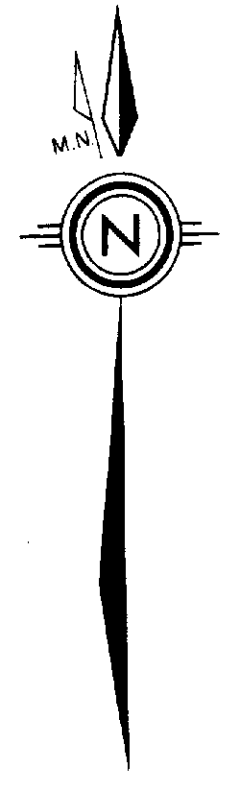
R. Sproule





Note: Claims revised from 1-4800 property map amended by R. Sproule, June 1984.

LEGEND
 Grid line with 100' stations
 Located claim post and line
 Instrument.....Apex Parametrics MAXMIN II
 Coil separation..... 100m
 Operating frequency..... 1777 Hz
 Profile plotted at midpoint between coils
 Plotting configuration.....
 Profile scale..... 1cm = 10%
 Inphase profile.....
 Quadrature profile.....



29532

C. von HESSERT & ASSOCIATES LTD.	
HAWK RESOURCES LIMITED	
CARSCALLEN TOWNSHIP District of Cochrane	
HORIZONTAL LOOP EM SURVEY 1777 Hz	
Prepared by: R. Sproule	Date: October 1986
Drawn by: R.T. MacCraff & Assoc.	Drawing No.: 3

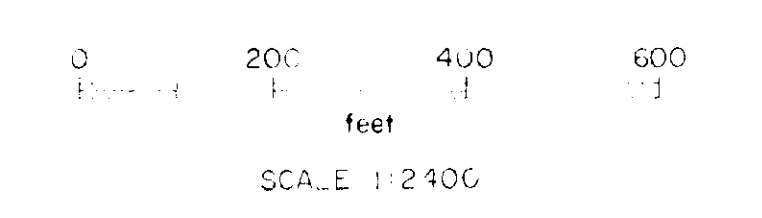
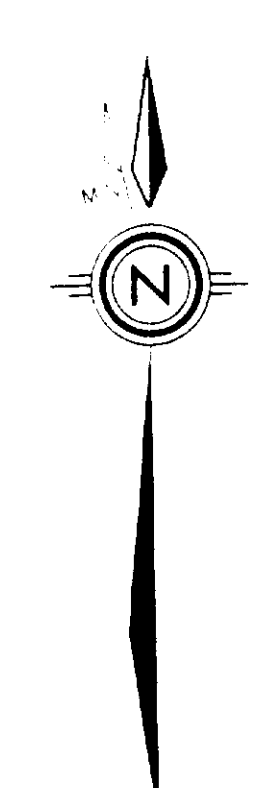
R. Sproule





LEGEND

- Grid lines with 100' stations
- Location claim post and line
- Max/Min EM conductor axis
- VLF-EM conductor axis
- Magnetic high (>1000 gammas)
- Soil geochemical anomalies, Au in ppb - 0-5, 5-24, >25...
- Location of overburden drill holes
- Overburden testing anomalies, Au in ppb >10, >100...
- Iron formation outcrop
- Assumed fault
- Wet marshy ground



29532

C. von HESSERT & ASSOCIATES LTD.	
HAWK RESOURCES LIMITED	
CARSCALLEN TOWNSHIP	
District of Cochrane	
COMPILATION MAP	
Prepared by: R. Sproule	Date: October 1986
Drawn by: R.T. Marcroft B. Assoc.	Drawing No. 5

R. Sproule

