



42A15SE0020 W9680-00461 EDWARDS

010

WOOLLEY LAKE CLAIMS  
DIAMOND DRILL REPORT  
EDWARDS TWP. ONTARIO  
LARDER LAKE MINING DIVISION  
OPAP FILE NUMBERS OP95-1, 2 & 3

November 30, 1995

L. M Dym<sup>^</sup>ent OP95-01  
J. A. Kidston OP95-02  
W. R. Benham OP95-03

## TABLE OF CONTENTS

INTRODUCTION.....	1
PROPERTY, LOCATION and ACCESS.....	1
EXPLORATION TARGETS, DEPOSIT TYPES and GEOLOGY.....	1
GEOLOGY.....	4
PREVIOUS WORK.....	5
DIAMOND DRILL PROGRAM.....	7
DRILL RESULTS.....	7
CONCLUSIONS and RECOMMENDATIONS.....	8
REFERENCES.....	9
APPENDIX I Diamond Drill Logs	
II Geochemical analysis Certificates	
FIGURES 1 Location Map	
2 Claim and Grid Location Map	
3-5 Drill Sections, 1" = 100'	
DRAWING 10 Compilation Map and Drill Plan, 1" = 200'	



42A15SE0020 W9680-00461 EDWARDS

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**DIAMOND DRILL REPORT**  
**WOOLLEY LAKE CLAIMS**  
**EDWARDS TWP. ONTARIO**

**Introduction**

This report describes the results of a diamond drilling program carried out on the Woolley Lake Claims located in Edwards Township, Ontario. Previous prospecting, VLF-EM, magnetometer, geological mapping, IP MaxMin HLEM and soil geochemical surveys which were completed during 1993 and 1994 on the property defined drill targets in the vicinity of previously reported Cu-Zn-Ni-Au-Ag disseminated to massive sulphide showings in felsic volcanics and mafic to ultramafic intrusives or flows. The previous work was funded by the Ontario Prospectors Assistance Program (OPAP), i.e. OP93-028 and OP94-287. This drilling program was funded by 1995 OPAP grants awarded to L. M. Dymont OP95-01, J. A. Kidston OP95-02 and W. R. Benham OP95-03.

**Property, Location and Access**

The Woolley Lake property consists of two claim blocks, L.1187113 of 12 units and L.1187114 of 8 units, for a total of 20 claim units. The claims were recorded on February 3, 1993 in the name of Wayne Benham. Joutel Resources Ltd., who purchased a 10% interest in the claims, declined to earn an additional 40% interest because of substantial 1995 offshore exploration commitments. Under current property agreements, the claims now are owned by Wayne Benham(45%), Mike Dymont(22.5%), Jocelyne Kidston(22.5%) and Joutel Resources Ltd.(10%).

The property is located in the central portion of Edwards Township in the Larder Lake Mining Division about 10 km north of the Town of Iroquois Falls (Claim Map Sheet G-3496, NTS: 42 A/15, Latitude 48° 51', Longitude 80° 38', Figures 1 & 2).

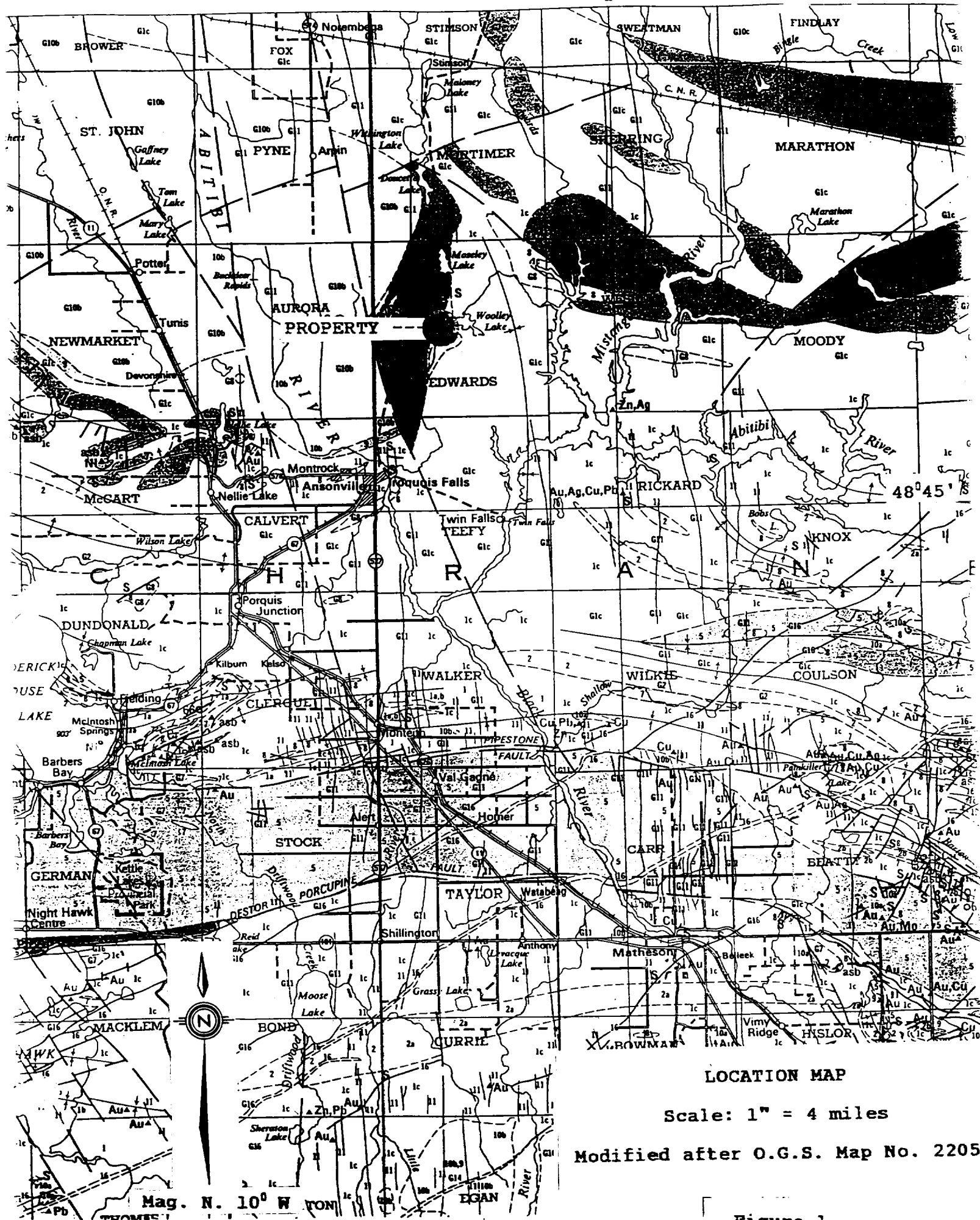
Access is by the Detour Lake Road leading northwards from Iroquois Falls to Kilometre 8, east for 2.0 km and then north for 0.4 km along Abitibi Paper Company Ltd. logging roads.

Except for outcrop areas, the property has been logged within the last five years and partially reforested.

**Exploration Targets, Deposit Types and Geology**

The exploration targets on this property are copper-nickel, copper-zinc-gold-silver and diamonds.

1. Copper-nickel disseminated to massive sulphide deposits associated with komatiitic ultramafic volcanics or gabbroic intrusives, eg. Redstone Nickel, Eldorado Twp..
2. Copper-zinc-gold-silver volcanogenic massive sulphide deposits, eg. Kidd Creek, Kidd Twp..
3. Diamond deposits in kimberlite pipes.



UKUKA TOWNSHIP

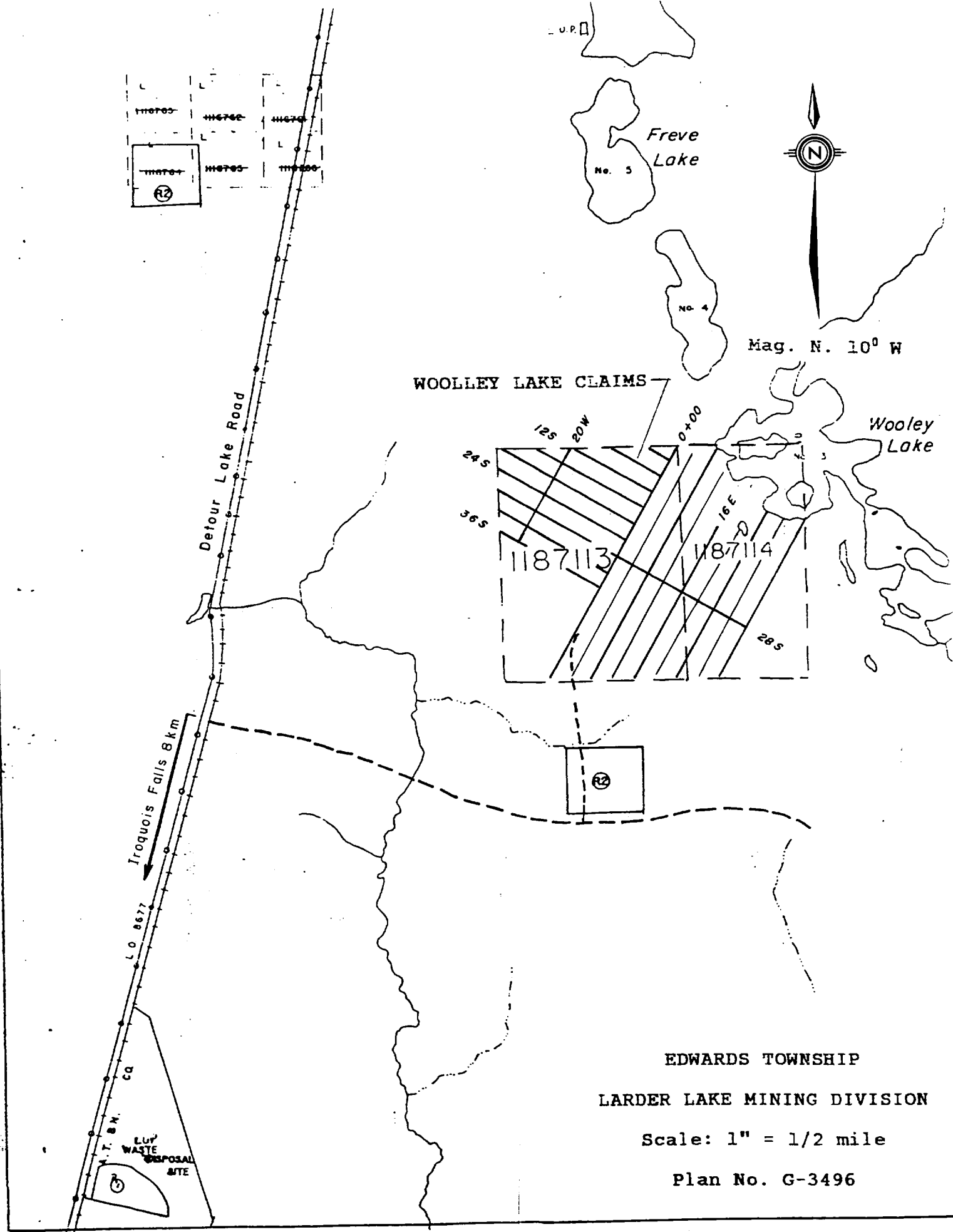


Figure 2

## Geology

The Woolley Lake property is underlain by Archean volcanic and sedimentary rocks which are intruded by gabbroic intrusives and Matachewan diabase dykes. There are no outcrops on the eastern claim block L.1187114 where the overburden consists of wet clay deposits in the southwestern part of the claim and sand plains to the northwest. On the western claim block, L.1187113, there are four outcrop areas. Each area is marked by a prominent hill due to a northerly striking diabase dykes (Figure 3).

The sedimentary rocks consist of graywackes, siltstones, argillites and volcanoclastics intercalated with minor associated felsic to intermediate pyroclastics. The graywackes and siltstones are grey-green, fine to medium grained and massive to finely bedded. The argillites are black, carbonaceous, pyritic and finely laminated. They occur as large 3' x 2' xenoliths in the gabbro intrusives at 2+00 E to 3+00 E along line 28+00 S.

The volcanoclastic rocks consist of thickly bedded units with lapilli of sedimentary and felsic volcanics in a fine grained biotitic siliceous graywacke matrix. The most dominant clasts are resistive sub angular, fine grained, dark grey, felsic lapilli up to 0.5" wide.

The volcanic rocks consist of fine grained, dark green to grey green, massive to well-pillowed basalts with associated pillow breccias and hyaloclastites.

Three, 100 to 200 feet wide, northerly striking, vertically dipping, diabase dykes cut the volcanic and sedimentary stratigraphy. The diabase is brown weathered, dark green, medium to coarse grained and moderately to strongly magnetic.

A large gabbro mass is located 200 to 400 feet to the east and west of the diabase dyke at 28+00 S between 00+00 and 8+00 E. The outer limits of this body is unknown. The gabbro is medium grained, massive, weakly magnetic and locally dioritic.

The volcanics and sediments strike 180° to 215° Az in the western part of the property and are interpreted from the magnetic and VLF-EM results to strike 120° Az in the eastern claim block. The sedimentary rocks are steeply dipping at 80° to 85° to the east and west. The pillow lavas indicate stratigraphic tops to the east. The volcanics and sediments probably are synclinally folded with a fold axis at 075° Az.

Shearing located to the west of the diabase dyke on line 28+00 S strikes 180° Az and dips 80° to the east. Blue-white, 1" to 18" wide, quartz ladder veins are associated with this shearing. A second set of shear zones strikes 295° Az and dips 80° to the north as seen at 24+00 S, 14+00 W. These shear zones contain graphitic, pyritic, banded, white quartz veins.

Siliceous sulphide-rich sediments and volcanoclastic rocks are located on line 12+00 S at 8+00 W to 12+00 W, 20+00 S at 21+00 W and 26+00 S at 10+50 W to 14+00 W. The sulphides consist of trace to 5% finely disseminated to wispy 0.1" wide pyrrhotite lenses and trace to 2% finely disseminated pyrite. Samples of this sulphide mineralization return geochemically anomalous nickel assays of up to 503 ppm Ni.

A sample from the graphitic, pyritic shear zone at 26+00 S, 14+00 W assayed 327 ppm Cu, 232 ppm Ni and 425 ppm Zn.

The pyritic carbonaceous argillite xenoliths at 28+00 S, 3+00 E assayed up to 127 ppm Cu, 197 ppm Ni and 173 ppm Zn.

### **Previous Work**

Research of the Kirkland Lake Assessment Files for Edwards Township showed that the township was flown by Canadian Aero Mineral Surveys for Canadian Javelin Ltd. in 1964. An extensive zone of bedrock conductivity with magnetic correlation was located to the west of Woolley Lake. During 1965 Canadian Javelin Ltd. carried out horizontal loop EM, magnetic and geological mapping surveys to explore this conductive zone. Subsequent drilling intersected semi-massive sulphides in graphitic sediments, altered felsic volcanics and gabbroic intrusives. Geochemically anomalous copper, zinc and nickel assays (up to 0.13% Cu, 0.14% Zn and 0.10% Ni) were reported.

Survey lines were cut north-south at an acute angle to the strike of the volcanics. Therefore, it appears that the ground electro-magnetic survey was not interpreted correctly. The strikes of the magnetic anomalies, which correlate closely to the strikes of the volcanics, are almost perpendicular to the interpreted strikes of the EM conductors. The Canadian Javelin holes were drilled along the strike and down the dip of the volcanics. Although the holes intersected conductive graphite and sulphides with anomalous basemetal assays, the strongest conductor probably was not tested due to the improper orientation of the drilling.

In 1964, Inco drilled a hole which was located approximately 1.5 km to the north along strike of the Canadian Javelin conductors. The Inco hole intersected semi-massive sulphides but no assay results were filed.

Edwards Township was flown in 1980 by Amax and Cominco; however, both these companies followed up anomalies to the north and south of the current Woolley Lake claims.

During 1988, an airborne electromagnetic and total intensity magnetic survey of the Detour-Burntbush-Abitibi area was flown by Geotrex Ltd. for the Ontario Geological Survey. Map No. 81240, which covers most of Edwards Township, shows similar EM and magnetic anomaly patterns as the Canadian Javelin airborne survey but in greater detail.

In 1993, W. Benham carried out prospecting, linecutting, VLF-EM, magnetometer and mapping surveys to investigate the previously reported sulphide showings in felsic pyroclastics and to confirm a reinterpreted strike for the volcanic rocks.

The fragmental rocks were found to be felsic volcanoclastic sediments rather than felsic tuffs. Samples of the pyrrhotite-rich sediments returned geo-chemically anomalous nickel contents. Although no ultramafic rocks were found in outcrop, previous drilling has reported the presence of talcose, carbonated serpentinite.

Some unexplained VLF-EM and magnetic anomalies were located in overburden covered areas. Of particular interest was a 100 to 1,200 foot wide and 2,400 foot long, 1,000 to 3,000 gamma, magnetic anomaly on lines 8+00 E to 32+00 E at 38+00 S. Weakly anomalous VLF-EM anomalies are associated with this magnetic anomaly. This anomaly may be caused by disseminated sulphides and discontinuous sulphide lenses associated with ultramafic rocks.

A circular, 2000 foot diameter, 100 to 450 gamma, magnetic anomaly was located centred at 16+00 S on line 8+00 E. The source of this anomaly may be a gabbroic stock or a kimberlite pipe(?).

Seven weakly to moderately strong VLF-EM anomalies were located. Disseminated and narrow lenses of semi-massive pyrite and pyrrhotite were found along strike of the strongest anomaly at 13+00 W on line 28+00 S. A moderately strong conductor, which is flanked by a 900 gamma magnetic anomaly, at 38+00 S on line 8+00 E, is in an area of no outcrop.

During 1995, MaxMin HLEM, fill-in magnetometer, IP and soil geochemical surveys were completed by Wayne Benham to follow-up the 1993 exploration results. Some well defined moderate strength IP anomalies with coincident and flanking magnetic anomalies were located. IP anomalies A, B, and B', which are associated with magnetic anomaly F, were interpreted to be associated with a mafic to ultramafic intrusive/flow or a felsic volcanic/oxide to sulphide iron formation sedimentary contact. IP anomalies C and C' are associated with circular magnetic anomaly G which was considered possibly to be due to a kimberlite pipe.



## Diamond Drill Program

The 1995 diamond drilling program on the Woolley Lake property was started on August 15, 1995 and was completed on August 30, 1995 by Heath & Sherwood Drilling (1986) Inc. of Kirkland Lake, Ontario. Work was interrupted from August 21st to August 27th by forest fire hazard which required the stoppage of all bush operations. Three BQ diameter holes, WL95-1, WL95-2 and WL95-3, were drilled for a total of 1430 feet. A total of 43 split core samples were assayed by Swastika Laboratories Ltd. for gold (38 samples), copper (43 samples), nickel (43 samples), cobalt (13 samples), silver (6 samples), platinum (4 samples) and palladium (4 samples).

Field supervision of the diamond drill program was shared by L. M. Dymont, J. A. Kidston and W. Benham. Hole WL95-1 was logged by W. Benham. Holes WL95-2 and 3 were logged by L. M. Dymont. The core was split and sampled by L. M. Dymont and J. A. Kidston. The final drill report, drill logs and drill sections were prepared by W. Benham.

## Drill Results

The results of the 1995 drilling are described in drill logs WL95-1, WL95-2 and WL95-3 (Appendix 1) and are shown on drill sections figures 3-5 at a scale of 1" = 100'. Drill hole locations are shown on drawing 1 at a scale of 1" = 100'. Assay certificates are located in Appendix 11 and all sampled intervals and assay results are recorded in the drill logs.

**Hole WL95-1** tested coincident IP and HEM anomalies (IPA and EE) along the southern flank of a strong magnetic anomaly MF. Graphitic cherty sediments with 252 ppm Cu and 716 ppm Zn were intersected from 373.0-379.0 feet. The magnetic anomaly was found to be due to serpentized peridotite with disseminated magnetite and traces of pyrite and chalcopyrite. Samples of the peridotite returned assays in the range of 410-1420 ppm Ni.

**Hole WL95-02** was planned to test an IP anomaly (B-B') along the northern contact of magnetic anomaly MF. This hole was drilled down dip in order to test the northern deeper part of IP anomaly B'. The IP anomaly is due to strongly magnetic serpentized peridotite with finely disseminated pyrite and pyrrhotite which was intersected from 591.0-630.5 feet. Samples of this weakly mineralized peridotite returned assays of 1470-1760 ppm Ni.

**Hole WL95-3** was drilled to test IP anomaly IPC and the circular low magnetic anomaly MG. Graphitic cherty interflow sediments and graphitic brecciated dacites with 30-50% sulphides (pyrite + pyrrhotite, trace chalcopyrite) were intersected from 114.4-122.7 feet, 183.5-186.5 feet, 220.7-233.5 feet, 256.5-261.5 feet and 270.0-272.5 feet. Samples from these sulphide zones assayed 117-264 ppm Cu and 182-972 ppm Ni. A mineralized zone with 30% pyrite + pyrrhotite was intersected from 326.3-329.7 feet in a diorite intrusive. This zone returned assays of 380 ppm Cu and 394 ppm Ni. No explanation for the low magnetic anomaly was encountered in hole WL95-3.

## Conclusions and Recommendations

The 1995 drill program found the IP anomalies to be due to graphitic sediments and weakly mineralized serpentized magnetic peridotites. No economic mineralization was intersected. The graphitic sediments are weakly anomalous in copper and zinc while the serpentized peridotites are weakly anomalous in nickel.

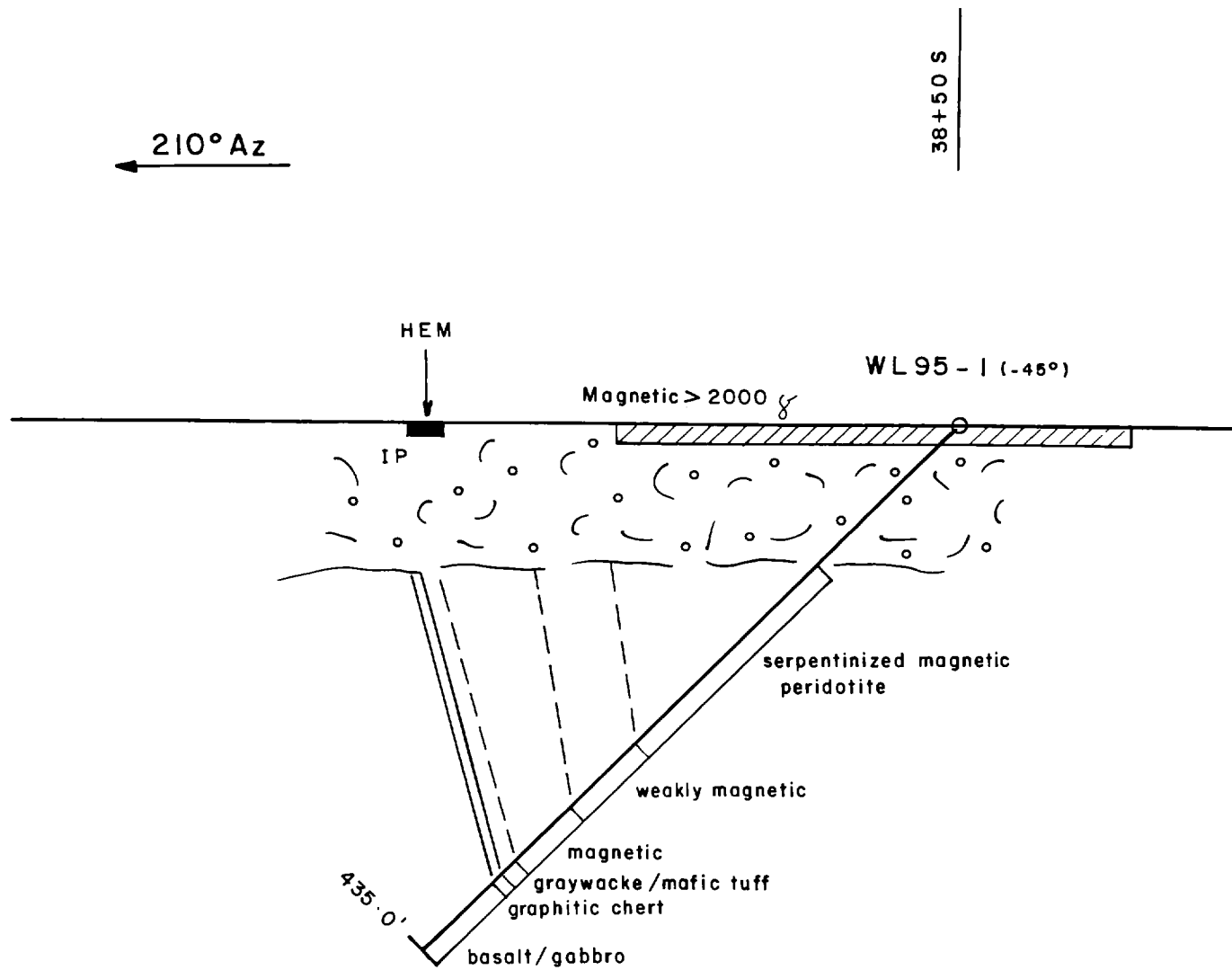
No explanation for the circular low magnetic anomaly was found. A hole closer to the center of this anomaly would be required to better test this anomaly.

Based on the results the recent geophysical surveys and the 1995 drill program, it appears that there are no near surface mineral deposits present on the property. Deeper penetrating geophysical surveys would be required to explore the weakly anomalous nickel bearing peridotites and the weakly anomalous copper+ zinc bearing cherty graphitic horizons at depth. No further work is recommended at this time.

A handwritten signature in black ink, appearing to be 'W B' followed by a long, sweeping horizontal stroke.

## References

1. Kirkland Lake Area Assessment Files.
2. Map P.153, Edwards Township, Scale: 1" = 1/4 mile, P. M. Ginn, O.D.M., 1961.
3. Map 2205, Timmins-Kirkland Lake Geological Compilation Series, Scale: 1: = 4 miles, D.R. Pyke, O.D.M., 1973.
4. Map P.853, Kirkland Lake Data Series, Scale: 1" = 1/4 mile, H.L. Lovell, O.D.M., 1973.
5. Map 81240, Geophysical/Geochemical Series, Airborne Electromagnetic and Total Intensity Magnetic Survey, Detour-Burntbush-Abitibi Area, Pyne, Mortimer, Aurora and Edwards Townships, Scale: 1:20000, by Geoterrex Ltd. for the O.G.S., 1989.
6. Open File 2161, Geological Survey of Canada, Geology and Ore Deposits of the Timmins District, Ontario, Field Trip 6, Edited by J.A. Fyon et al.
7. Report on Prospecting, VLF-EM, Magnetometer and Geological Surveys, Woolley Lake Claims, Edwards Twp., Ontario, File No. OP93-028, W. Benham, 1993.
8. Report on MaxMin HEM, Magnetometer, IP and Soil Geochemical Surveys, Woolley Lake Claims, Edwards Twp., Ontario, File No. OP94-287, W. Benham, 1994.



BENHAM - DYMENT - KIDSTON  
WOOLLEY LAKE CLAIMS  
DRILL SECTION WL95-1

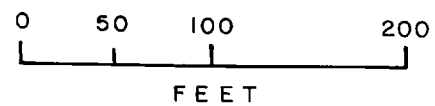
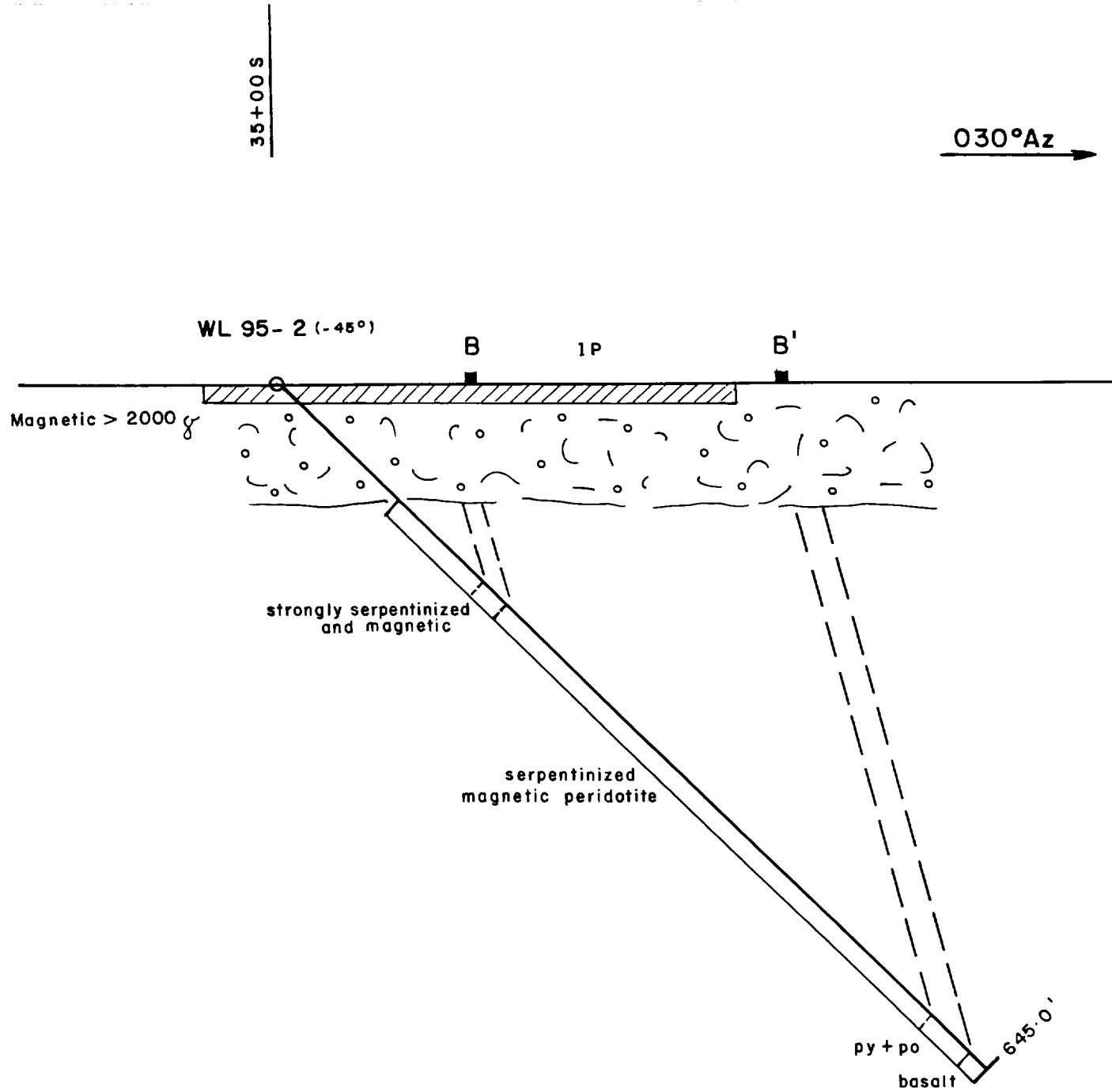


FIG. 3



BENHAM - DYMENT-KIDSTON  
 WOOLLEY LAKE CLAIMS  
 DRILL SECTION WL 95-2

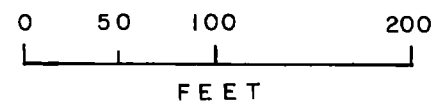
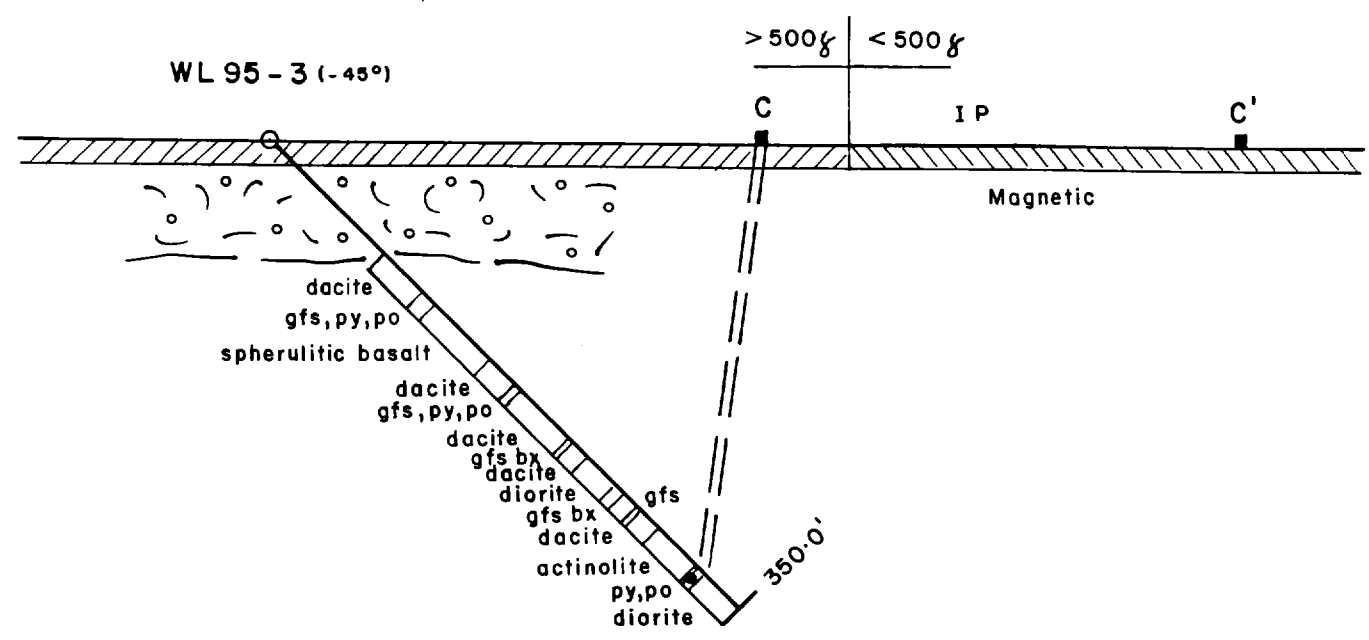


FIG. 4

8+00 E  
17+50 S

050° Az



gfs bx Graphitic schist + breccia

BENHAM - DYMENT - KIDSTON  
WOOLLEY LAKE CLAIMS  
DRILL SECTION WL 95-3

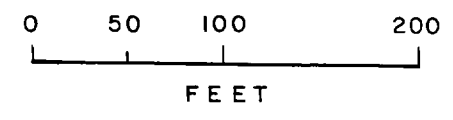


FIG. 5

**Appendix I**  
**Diamond Drill Logs**





**BENHAM - DYMENT - KIDSTON.  
DIAMOND DRILL LOG**

Property: Woolley Lake, Edwards Twp.											Hole: WL 95 - 1	
FEET		DESCRIPTION	SAMPLE					ASSAYS				
From	To		No.	From	To	Length	% Rec.	Cu ppm	Ni ppm	Zn ppm	Au ppb	
0.0	116.0	<b>OVERBURDEN</b> Sand and clay.										
116.0	361.0	<b>PERIDOTITE</b> 116.0 - 285.0 Dark black green, massive, strongly magnetic due to 1-5% disseminated magnetite, weakly serpentinized peridotite, a few fractures with hematite staining and/or serpentine veinlets.										
		207.5 - 285.0 1-2%, 1-5 mm wide, calcite + serpentine veinlets at 40-80 deg tca with 3-5% magnetite and traces of pyrite and chalcopyrite.	11951	213.5	216.0	2.5	100	40	1300	---	3	
		275.8 - 276.3 50% carbonate, 30% talc, 20% serpentine + chlorite veins at 40 deg tca	11952	274.7	277.6	2.9	100	26	1420	---	Nil	
		277.3 - 277.6 Carbonate + talc shear zone at 70 deg tca.										
		285.0 - 315.0 Altered, fractured, talcose and serpentinized fractures at 20-40 deg tca.	11953	290.0	295.0	5.0	100	16	960	---	Nil	
		295.0 - 297.0 Light green actinolite.	11954	295.0	299.0	4.0	60	8	628	---	Nil	
		297.0 - 303.0 Talcose, light green to green, sheared at 40 deg tca.	11955	299.0	303.0	4.0	75	34	410	---	3	
		263.0 - 315.0 Weakly to nonmagnetic.	11956	303.0	309.0	6.0	100	28	596	---	Nil	
		315.0 - 361.0 Dark green black, moderately to strongly magnetic, massive to weakly fractured, weakly serpentinized peridotite.	11957	309.0	315.0	6.0	90	12	724	---	Nil	

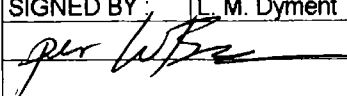
**BENHAM - DYMENT - KIDSTON.  
DIAMOND DRILL LOG**

Property: Woolley Lake, Edwards Twp.											Hole: WL 95 - 1	
FEET		DESCRIPTION	SAMPLE					ASSAYS				
From	To		No.	From	To	Length	% Rec.	Cu ppm	Ni ppm	Zn ppm	Au ppb	
361.0	373.0	<b>GRAYWACKE / MAFIC TUFF</b> Grey green, massive, medium grained graywacke or mafic tuff with 0.5-2 mm white grey feldspar grains in a green chloritic nonmagnetic mafic matrix, 2-3%, 0.1-1.0 cm calcite veinlets at 10-50 deg tca.										
373.0	379.0	<b>GRAPHITIC CHERTY SEDIMENTS</b> Black to light grey, graphitic and cherty finely bedded sediments, bedding at 60-70 deg tca, 1-2% sulphides, 1% pyrite, <1% chalcopyrite, <1% sphalerite disseminated and along fracture planes. 274.8 - 276.0 30-40% graphitic shears at 60 deg tca, 1% sphalerite, <1% chalcopyrite, and 2% pyrite.	11958	373.0	376.0	3.0	100	388	---	906	3	
			11959	376.0	379.0	3.0	100	116	---	526	Nil	
379.0	435.0	<b>BASALT / GABBRO</b> 379.0 - 405.0 Green to dark green, massive, fine grained basalt or fine grained contact zone of a gabbro intrusive, nonmagnetic. 405.0 - 423.0 Green to dark green, medium grained, pyroxene gabbro or gabbroic basalt, massive, nonmagnetic, 1-2%, 0.1-1.0 cm calcite-chlorite veinlets, traces of disseminated pyrrhotite, pyrite and chalcopyrite. 423.0 - 431.3 Chloritic basalt / gabbro, sheared at 30-40 deg tca. 425.5 - 426.0 1%, 1-2 mm, calcite veinlets with traces of sphalerite and galena? 425.5 - 426.0 Light grey, silicified shear zone at 50 deg tca, <1% pyrite. 431.3 - 435.0 Green to dark green, massive, nonmagnetic, gabbroic / pyroxene gabbro.										
			11960	405.0	410.0	5.0	100	98	38	56	3	
			11961	423.0	426.2	3.2	100	64	58	230	Nil	
			11962	426.2	431.3	5.1	100	134	48	294	Nil	
435.0		<b>E. O. H.</b>										





**BENHAM - DYMENT - KIDSTON  
SUMMARY DRILL LOG**

<b>PROPERTY: WOOLLEY LAKE</b>				<b>HOLE: WL 95 - 3</b>			
TOWNSHIP : Edwards, Ontario	DATE LOGGED : September 6-7, 1995	EASTING : 8 + 00 E	Depth	Method	Azimuth	Dip	
CLAIM No. : L1187113	LOGGED BY : L. M. Dyment	NORTHING : 17 + 50 S	Collar	Compass	050	-50	
STARTED : August 28, 1995	DRILLED BY : Heath & Sherwood	LENGTH : 350.0 ft.					
COMPLETED : August 30, 1995	CORE LOCATION: Dyment/KidstonMarquis Twp	CORE SIZE : BQ					
SIGNED BY : L. M. Dyment							
							
PURPOSE: To test IP anomaly at 8 + 00 E, 15 + 00 S and circular low magnetic anomaly							
COMMENTS: IP anomaly due to graphitic interflow sediments with pyrite and pyrrhotite.							
<b>FEET</b>			<b>SUMMARY LOG</b>		<b>ASSAY SUMMARY</b>		
From	To	Lithology	Mineralization	From	To	Feet	Au oz/t
0.0	91.0	Overburden					
91.0	114.4	Dacite					
114.4	122.7	Graphitic Sediments					
122.7	162.5	Spherulitic Basalt					
162.5	183.5	Dacite					
183.5	186.5	Graphitic Sediments					
186.5	220.7	Dacite					
220.7	233.5	Graphite/Dacite Breccia					
233.5	242.5	Dacite					
242.5	256.5	Diorite					
256.5	261.5	Graphitic/Dacite Breccia					
261.5	270.0	Dacite					
270.0	272.5	Graphitic Sediment					
272.5	291.5	Dacite					
291.5	320.0	Actinolite/Spinifex					
320.0	350.0	Diorite					
	350.0	E. O. H.					

**BENHAM - DYMENT - KIDSTON.  
DIAMOND DRILL LOG**

Property: Woolley Lake, Edwards Twp.							Hole: WL 95 - 3				
FEET		DESCRIPTION	SAMPLE				ASSAYS				
From	To		No.	From	To	Length	Cu ppm	Ni ppm	Co ppm	Ag ppm	Au ppb
0.0	91.0	<b>OVERBURDEN</b> Sand and clay.									
91.0	114.4	<b>DACITE</b> Fine grained green grey dacite, magnetic, 1-5% disseminated sulphides pyrite + pyrrhotite, numerous thin quartz + carbonate veinlets at 45 deg. 112.4 - 113.4 Porphyritic mafic dyke.	11963	91.0	96.0	5.0	73	269	—	—	Nil
			11964	96.0	101.0	5.0	80	262	—	—	Nil
			11965	101.0	106.0	5.0	60	273	—	—	Nil
			11966	106.0	111.0	5.0	81	325	—	—	2
			11967	111.0	114.4	3.4	80	213	—	—	Nil
114.4	122.7	<b>INTERFLOW SEDIMENT</b> Baked graphitic chert with slumped contacts with clots and veins of pyrite + pyrrhotite - 30-40% sulphides with minor chalcopyrite inclusions.	11968	114.4	118.4	4.0	127	182	42	0.2	3/7
			11969	118.4	122.7	4.3	231	364	72	0.3	Nil
			11970	122.7	127.7	5.0	132	305	—	—	2
			11971	127.7	132.7	5.0	58	248	—	—	3
122.7	162.5	<b>SPHERULITIC BASALT</b> Fine to medium grained basalt with spherulites randomly scattered throughout, 1-3% disseminated sulphides, weakly magnetic. 127.0 - 128.0 Breccia zone.	11972	132.7	142.7	10.0	54	279	—	—	5
			11973	142.7	152.7	10.0	40	337	—	—	Nil
			11974	152.7	162.7	10.0	113	972	—	—	Nil
			11975	162.7	167.7	5.0	109	276	—	—	Nil
			11976	167.7	172.7	5.0	84	854	—	—	Nil
			11977	172.7	177.7	5.0	144	668	—	—	2
162.5	183.5	<b>DACITE</b> Fine grained dacite, weakly magnetic, 1-3% disseminated sulphides. 163.5 Blue quartz vein at 45 deg tca.	11978	177.7	183.5	5.8	82	525	—	—	Nil
			11979	183.5	186.5	3.0	239	243	—	—	2/Nil
			11980	186.5	191.5	5.0	124	271	—	—	Nil
183.5	186.5	<b>INTERFLOW SEDIMENT</b> Baked graphitic chert with slumped contacts with clots and veins of pyrite + pyrrhotite - 30-40% sulphides with minor chalcopyrite inclusions.									

**BENHAM - DYMENT - KIDSTON.  
DIAMOND DRILL LOG**

Property: Woolley Lake, Edwards Twp.							Hole: WL 95 - 3				
FEET		DESCRIPTION	SAMPLE				ASSAYS				
From	To		No.	From	To	Length	Cu ppm	Ni ppm	Co ppm	Ag ppm	Au ppb
186.5	220.7	<b>DACITE</b> Fine grained grey green dacite, weakly magnetic, <1% disseminated sulphides throughout.									
220.7	233.5	<b>BRECCIA</b> Graphite baked with dacite inclusions, suttle contacts, 50% sulphides mainly pyrrhotite. 227.0 Two inch wide blue quartz vein at 45 deg tca.	11981	220.7	225.7	5.0	222	544	88	0.3	7
			11982	225.7	229.0	3.3	264	328	58	0.3	7
			11983	229.0	233.5	4.5	233	316	61	0.4	10/14
							Pt ppb	Pd ppb			
233.5	236.3	<b>DACITE</b> Fine grained dacite weakly magnetic, cherty, disseminated sulphides.	11981	220.7	225.7	5.0	10	10			
			11982	225.7	229.0	3.3	<10	10			
			11983	229.0	233.5	4.5	<10	5			
236.3	242.5	<b>DIORITE</b> Stongly bleached coarse grained diorite with numerous quartz-carbonate veinlets at all angles tca, non magnetic. 240.0 - 241.0 Mud seam, ground.									
242.5	256.5	<b>DACITE</b> Fine grained green grey dacite, very weakly magnetic, <1% sulphides.									
256.5	261.5	<b>BRECCIA</b> Graphite baked with 30% dacite, 60% graphite and 10% sulphides mainly pyrrhotite.	11984	256.5	261.5	5.0	182	432	--	0.4	3/7
261.5	270.0	<b>DACITE</b> Fine grained green grey dacite 261.5 - 262.5 Strongly bleached, 2% disseminated sulphides.									





Appendix II

Geochemical Analysis Certificates



Established 1928

# Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

## Geochemical Analysis Certificate

5W-3437-RG1

Company: **M. DYMENT & J.A. KIDSTON**  
Project: **EDWARDS**  
Attn: **W. Benham**

Date: AUG-31-95

We hereby certify the following Geochemical Analysis of 12 CORE samples submitted AUG-29-95 by .

WL # 1

Sample Number	Au PPB	Au Check PPB	Cu PPM	Ni PPM	Zn PPM
11951	3	-	40	1300	-
11952	Nil	-	26	1420	-
11953	Nil	-	16	960	-
11954	Nil	-	8	628	-
11955	3	-	34	410	-
11956	Nil	-	28	596	-
11957	Nil	-	12	724	-
11958	3	3	388	-	906
11959	Nil	-	116	-	526
11960	3	Nil	98	38	56
11961	Nil	-	64	58	230
11962	Nil	-	134	48	294

Certified by



Established 1928

# Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

## Geochemical Analysis Certificate

5W-3622-RG1

Company: **L. M. DYMENT & J. A. KIDSTON**  
Project: **DKB-2**  
Attn: **W. Benham**

Date: SEP-21-95

WL#31

We hereby certify the following Geochemical Analysis of 7 Core samples submitted SEP-18-95 by .

Sample Number	Au PPB	Au Check PPB	Co PPM	Cu PPM	Ni PPM	Zn PPM
11987	-	-	106	-	1670	-
11988	-	-	110	-	1760	-
11989	-	-	98	18	1470	-
11990	3	-	98	15	1480	26
11991	7	10	92	18	1510	25
11992	-	-	92	17	1500	28
11993	-	-	94	348	1560	-

Certified by *Dennis Chantre*

P.O. Box 10, Swastika, Ontario P0K 1T0  
Telephone (705) 642-3244 FAX (705) 642-3300



# Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

Assaying - Consulting - Representation

## Geochemical Analysis Certificate

5W-3532-RG1

Company: **L. M. DYMENT & JOCELYNE KIDSTON**  
Project: **DKB**  
Attn: **W. Benham**

Date: SEP-13-95

WL #3

We hereby certify the following Geochemical Analysis of 24 Core samples submitted SEP-08-95 by .

Sample Number	Au PPB	Au Check PPB	Ag PPM	Co PPM	Cu PPM	Ni PPM	Zn PPM	Pt PPB	Pd PPB
11963	Nil	-	-	-	73	269	-	-	-
11964	Nil	-	-	-	80	262	-	-	-
11965	2	-	-	-	60	273	-	-	-
11966	Nil	-	-	-	81	325	-	-	-
11967	Nil	-	-	-	80	213	-	-	-
11968	3	7	0.2	42	127	182	-	-	-
11969	Nil	-	0.3	72	231	364	-	-	-
11970	2	-	-	-	132	305	-	-	-
11971	3	-	-	-	58	248	-	-	-
11972	5	-	-	-	54	279	-	-	-
11973	Nil	-	-	-	40	337	-	-	-
11974	Nil	-	-	-	113	972	-	-	-
11975	Nil	-	-	-	109	276	-	-	-
11976	Nil	-	-	-	84	854	-	-	-
11977	2	-	-	-	144	668	-	-	-
11978	Nil	-	-	-	82	525	-	-	-
11979	2	Nil	-	-	239	243	-	-	-
11980	Nil	-	-	-	124	271	-	-	-
11981	7	-	0.3	88	222	544	-	10	10
11982	7	-	0.3	58	264	328	-	<10	10
11983	10	14	0.4	61	233	316	-	<10	5
11984	3	7	-	-	182	432	-	-	-
11985	7	-	-	-	264	318	-	-	-
11986	9	-	0.2	66	380	394	60	<10	10

One assay ton portion used.

Certified by Demi Chabre



# Report of Work Conducted After Recording Claim

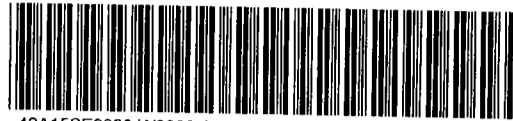
## Mining Act

Transaction Number

W 9680.00461

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 870-7264.

- Instructions:**
- Please type or print and submit in duplicate.
  - Refer to the Mining Act and Regulations for Recorder.
  - A separate copy of this form must be complete.
  - Technical reports and maps must accompany.
  - A sketch, showing the claims the work is assessed on.



42A15SE0020 W9680-00461 EDWARDS

900

Recorded Holder(s) Wayne R. Benham		Client No. 295965
Address 921 Willowdale Ave, Willowdale, Ont. M2H 3C2		Telephone No.
Mining Division Larder Lake	Township/Area Edwards Twp	M or G Plan No. G 3496
Dates Work Performed From: August 15, 1995		To: November 30, 1995

**Work Performed (Check One Work Group Only)**

Work Group	Type
<input type="checkbox"/> Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	Diamond Drilling
<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Other Authorized Work	
<input type="checkbox"/> Assays	
<input type="checkbox"/> Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs \$ 30911

**Note:** The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

**Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)**

Name	Address
Wayne Benham (Author)	921 Willowdale Ave, Willowdale, Ont.
Heath & Sherwood Drilling	P.O. Box 998, Kirkland Lake, Ont.
Swastika Laboratories	P.O. Box 10, Swastika, Ont.
L.M. Dymant & J. Kidston	P.O. Box 60, Swastika, Ont.

(attach a schedule if necessary)

**Certification of Beneficial Interest \* See Note No. 1 on reverse side**

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date Sept 19/96	Recorded Holder or Agent (Signature) W. Benham
--	--------------------	---

**Certification of Work Report**

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.		
Name and Address of Person Certifying Wayne Benham, 921 Willowdale Ave Willowdale Ont.		
Telephone No. 416 222-4474	Date Sept 19/96	Certified By (Signature) W. Benham

**For Office Use Only**

Total Value Cr. Recorded 30911	Date Recorded 96 Sept 19	Mining Recorder [Signature]	Received Stamp
	Deemed Approval Date	Date Approved 96 Dec 5	
	Date Notice for Amendments Sent		

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units
	1187113	12
	1187114	8
Total Number of Claims		2

Value of Assessment of Work Done on this Claim	Value Applied to this Claim
18,969	18,035
13,942	12,876
Total Value Work Done	
30,911	30,911
Total Value Work Applied	
	835

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
1,066	876
Total Assigned From	
1,066	
Total Reserve	
	876

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

**Note 1:** Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

**Note 2:** If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date
---	-----------	------



**Statement of Costs  
for Assessment Credit**

**État des coûts aux fins  
du crédit d'évaluation**

**Mining Act/Loi sur les mines**

Transaction No./N° de transaction

Personal information collected on this form is obtained under the authority of the **Mining Act**. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la **Loi sur les mines** et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4<sup>e</sup> étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

**1. Direct Costs/Coûts directs**

Type	Description	Amount Montant	Totals Total global
<b>Wages Salaires</b>	Labour Main-d'oeuvre	3,500	
	Field Supervision Supervision sur le terrain		3,500
<b>Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil</b>	Type Diamond drilling	25,622	
	Assaying	742	
			26,364
<b>Supplies Used Fournitures utilisées</b>	Type Printing	22	
			22
<b>Equipment Rental Location de matériel</b>	Type		
<b>Total Direct Costs Total des coûts directs</b>			<b>29,886</b>

**2. Indirect Costs/Coûts indirects**

**\*\* Note:** When claiming Rehabilitation work Indirect costs are not allowable as assessment work.  
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
<b>Transportation Transport</b>	Type car. 1820 km x \$0.30	546	
			546
<b>Food and Lodging Nourriture et hébergement</b>		89	89
<b>Mobilization and Demobilization Mobilisation et démobilisation</b>	1300 km x \$0.30		390
<b>Sub Total of Indirect Costs Total partiel des coûts indirects</b>			<b>1025</b>
<b>Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)</b>			<b>6,182</b>
<b>Total Value of Assessment Credit (Total of Direct and Allowable indirect costs)</b>		<b>Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)</b>	
			<b>30,911</b>

**Note:** The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

**Note :** Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

**Filing Discounts**

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	× 0.50 =

**Remises pour dépôt**

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
	× 0,50 =

**Certification Verifying Statement of Costs**

I hereby certify:  
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Recorded Holder I am authorized  
(Recorded Holder, Agent, Position in Company)

to make this certification

**Attestation de l'état des coûts**

J'atteste par la présente :  
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de \_\_\_\_\_ je suis autorisé  
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature W. J. [Signature] Date Sept 18/96

**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. 390, SEC. 63, SUBSEC. 1.

**NOTES**

400' surface rights reservation along the shores of all lakes and rivers.

**ANNULMENT CERTIFICATE**

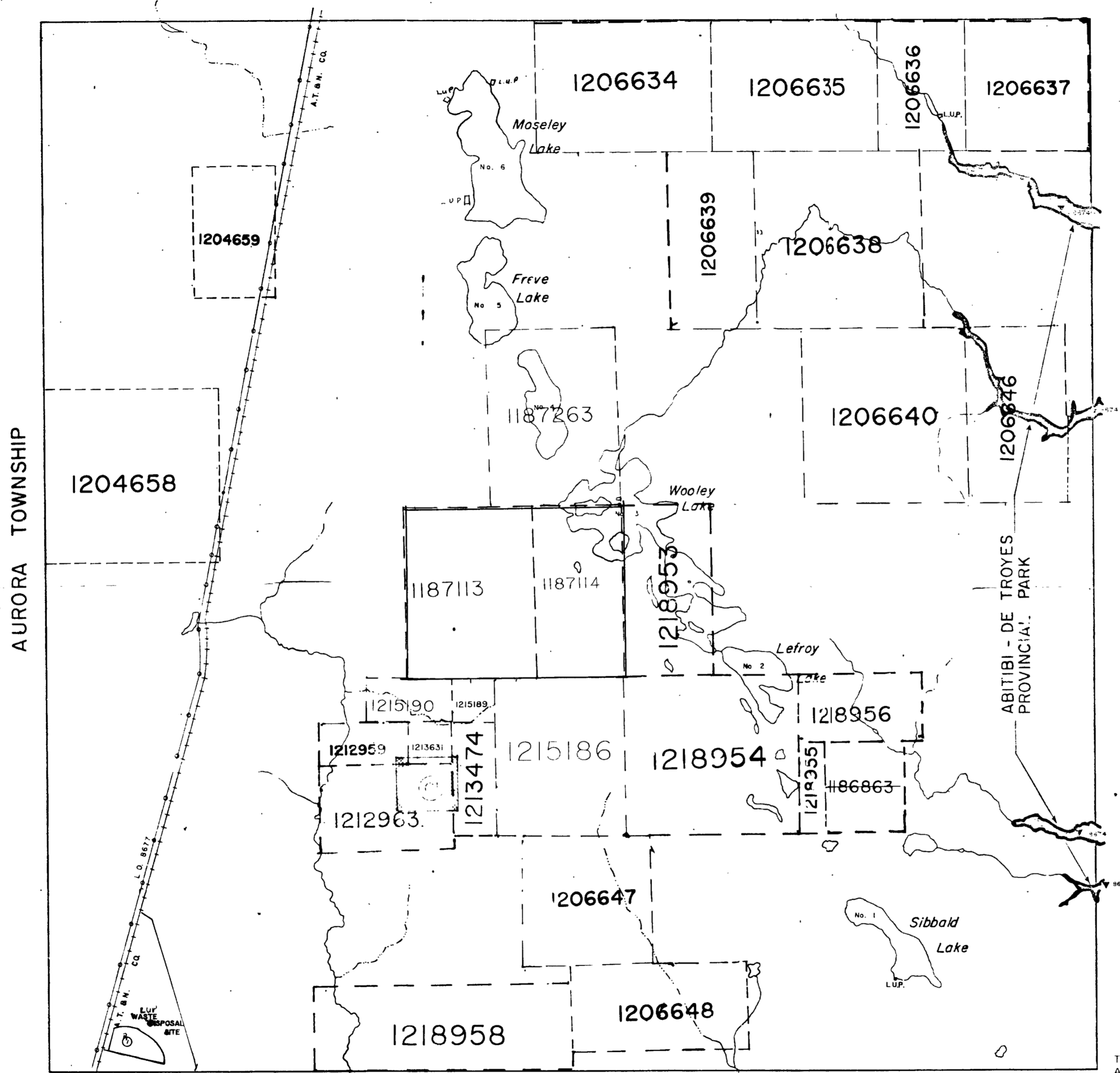
The subdivision of this Township into Lots and Concessions is wholly Annulled on 29 May, 1963.

Lands below contour levels 826' & 881' covered by L.O. 8674.

(M) Application pending for Surface Rights under Public Lands Act

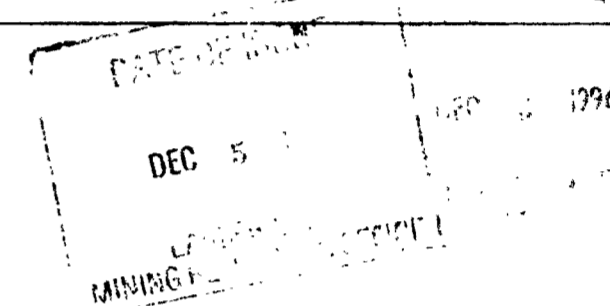
(C) AGGREGATE PERMIT BEDROCK

**MORTIMER TOWNSHIP**



**LEGEND**

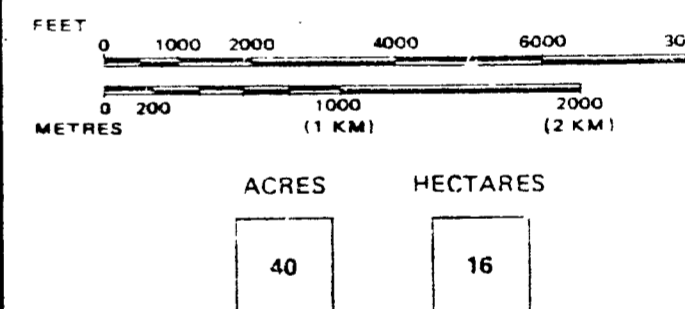
HIGHWAY AND ROUTE No.	—
OTHER ROADS	—
TRAILS	—
SURVEYED LINES	—
TOWNSHIPS, BASE LINES, ETC.	—
LOTS, MINING CLAIMS, PARCELS, ETC.	—
UNSURVEYED LINES:	—
LOT LINES	—
PARCEL BOUNDARY	—
MINING CLAIMS ETC.	—
RAILWAY AND RIGHT OF WAY	—
UTILITY LINES	—
NON-PERENNIAL STREAM	—
FLOODING OR FLOODING RIGHTS	—
SUBDIVISION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



**NOTICE OF FORESTRY ACTIVITY**

THIS TOWNSHIP / AREA FALLS WITHIN THE IROQUOIS FALLS MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 730, 2 THIRD AVE., COCHRANE, ONT., POL 1C0, 705-272-4365

SCALE: 1 INCH = 40 CHAINS



TOWNSHIP OF  
**EDWARDS**

DISTRICT COCHRANE  
MINING DIVISION  
LARDER LAKE

Ministry of Natural Resources Ontario  
Ministry of Northern Development and Mines

Date OCTOBER '86  
Plan No. G-3496

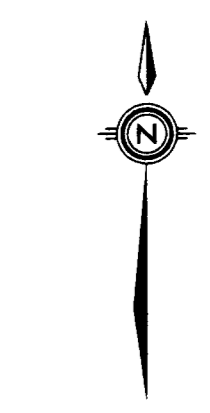
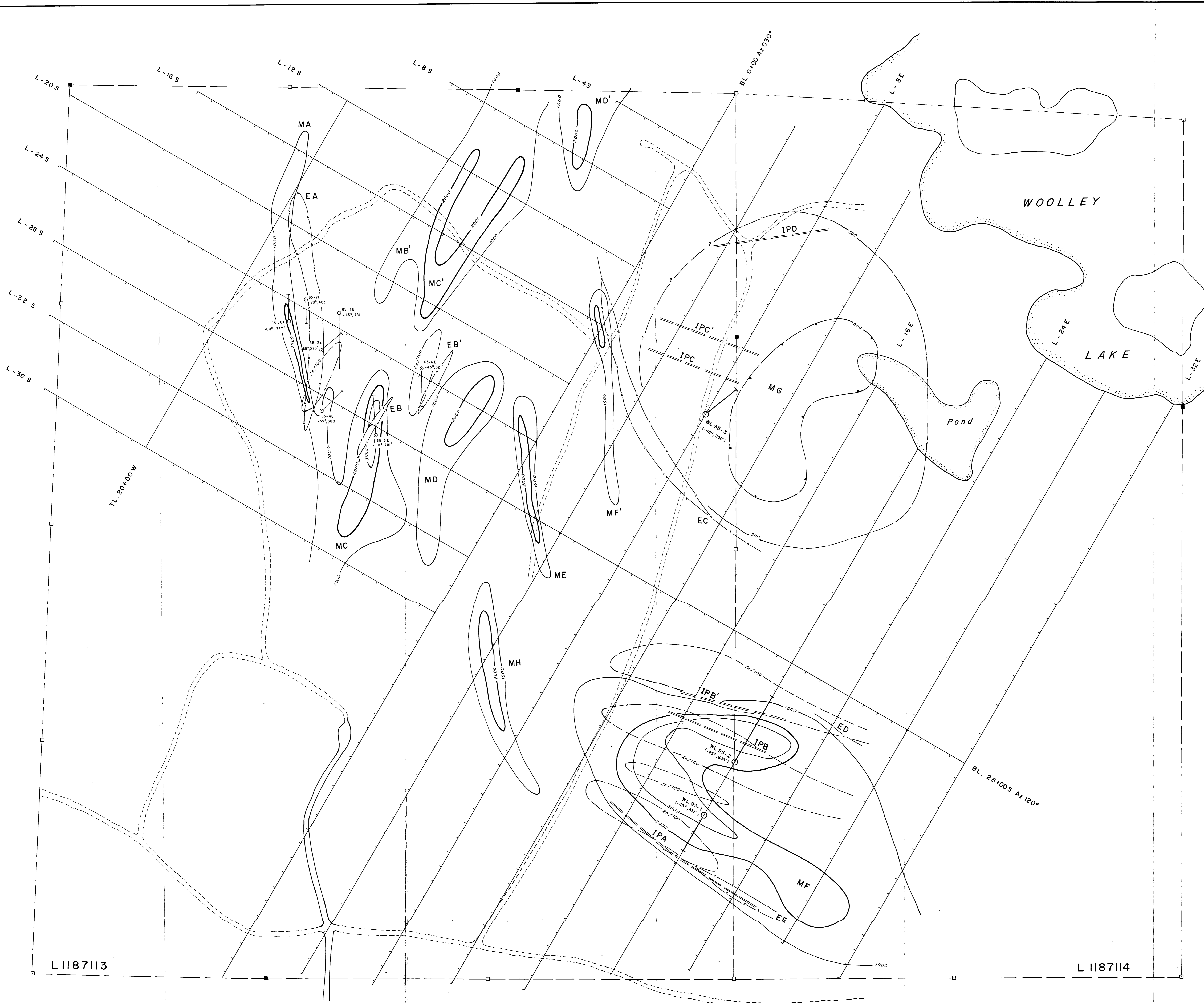
**TEEFY TOWNSHIP**

COPY OF THIS MYLAR ARCHIVED FEB. 05/93  
ARCHIVED JULY 1996

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

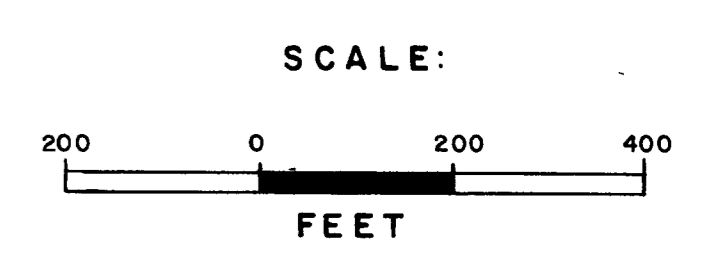






**LEGEND**

- MF MAGNETIC ANOMALY
- 500 Gamma Contour
- 1000 " "
- 2000 " "
- EA Max Min Anomaly
- IPA IP Chargeability Anomaly
- Zn(100ppm) Soil Geochemical Anomaly
- Canadian Javelin Ltd. 1965 DDH (Location Approximate)
- 1995 Diamond Drill Hole



NTS: 42 A/15

<b>WOOLLEY LAKE CLAIMS</b>		
EDWARDS TWP ONTARIO		
COMPILATION MAP AND DRILL PLAN		
Nov., 1995	W. BENHAM	DWG: 10

L1187113

L1187114

