



32D045W0066 63.3456 GAUTHIER

3,3456

010

ON
THE GAUTHIER TOWNSHIP PROPERTY
MAYFAIR MINES LIMITED
KIRKLAND LAKE AREA

KL-84

LOCATION & DESCRIPTION

The groups consist of 15 contiguous unpatented mining claims numbered as follows:

- | | |
|---------------|-----------|
| L 373800 - 04 | inclusive |
| 373809 - 11 | " |
| 428868 - 72 | " |
| 429139 - 140 | " |

Located in the southeast corner of Gauthier Township, the claims lie 12 miles east of Kirkland Lake, Ontario and are crossed by Highway 66, the O. N. Railway and power lines of the Ontario Hydro. Numerous bush roads passable to tractors give access to other parts of the property.

HISTORY

Prior to 1938 the following work had been completed:

1. Line cutting at 200 foot centres over the property north of the Misema River.
2. A geological survey
3. Prospecting, trenching and 3 shallow shafts
4. A drilling program by Olivet Mines
5. A drilling program by Ventures Limited
6. A geophysical survey (type unknown)

A copy of the geological map exists but unfortunately the rock types are not identified. It does, however, show the locations of drill holes, shafts and trenches. The records of the Ministry of Natural Resources in Kirkland Lake show logs for 29 drill holes, the location of which are shown on Map 50C which accompanies the report. Total footages drilled in the 29 holes was 14,703 feet.

RECENT ACTIVITY

Since acquiring the property Mayfair Mines Limited have cut lines at 200 foot centres, geologically mapped and completed a magnetometer survey over 8 of the claims (373800-04; 373809-11). The balance of the claims have not received any work to date but line cutting has recently been completed and a magnetometer survey is now underway.

FORM NO. L2-511-P REPORT PAPER GRAND & TOY

GENERAL GEOLOGY

The Timiskaming Group unconformably overlies a thick volcanic succession up to 19,000 metres thick (Ridler, 1970). The composition of these volcanics ranges from tholeiitic basalts to rhyolites, with the more felsic material generally higher in the stratigraphic section.

Conglomerate, sandstone, siltstone, argillite, chert and iron formation are contained in the sedimentary portion of the Timiskaming. The Timiskaming also includes volcanic rocks which are largely trachytic and leucitic in composition, along with some minor basalt and andesite.

ECONOMIC GEOLOGY OF THE AREA

Several types of gold ores are recognized in the Kirkland-Larder area. In the Town of Kirkland Lake, the mines which were 7 in number occur along the Kirkland Lake fault zone where it cuts a syenitic intrusive. The zone is a network of faults and fractures containing quartz, calcite, pyrite and gold.

At the Kerr Addison Gold Mines Limited, two types of orebodies are recognized. The carbonate type consists of irregular lenses of gold-bearing quartz stockworks lying within the altered and brecciated carbonate zone. The second type, called flow ores, consists of lenses of mineralized and silicified volcanic flow rocks lying south of the carbonate zone. Pyrite is the principal mineralization and contains most of the gold.

The most favourable area on the Mayfair property is along the Larder Lake 'break' and the carbonate zone which accompanies it. This zone extends for 3,000 feet across the property.

GEOLOGY OF THE PROPERTY

The property is entirely underlain by a thick sequence of Timiskaming rocks cut by a few minor Algomian intrusives.

The Timiskaming rocks generally strike a little north of west across the property.

The south part of the property is underlain by a band, 600 to 1200 feet wide, of mafic to ultra mafic volcanics which are in part sheared and

steeply dipping. They are often magnetic and one large outcrop near L 20 W immediately south of the highway is a black, fine grained, massive, magnetic rock which shows a distinctive polygonal texture. About 1,000 feet east of the property on strike with these mafic volcanics, spinifex texture has been identified in similar ultra mafic rocks.

A narrow band, 10 to 12 feet wide, of sheared carbonated syenite appears to have conformably intruded the volcanics. It has been tested by 2 shallow shafts and shows considerable quartz, carbonate and some fine disseminated pyrite.

Two small fresh looking intrusives, one a uniform, massive, pink syenite, the other a grey syenite porphyry, have intruded the volcanics near the east boundary, south of the highway.

An apparent conformable band of carbonate rock, 200 to 600 feet wide, lies north of the mafic volcanics and traverses the entire property. It has been tested by many trenches and pits. It is generally grey to brown, crumpled and contoured, cut by numerous quartz veins. Sulphide mineralization is rare. Some fuchsite is evident at a number of locations.

Immediately north of the carbonate zone all the rocks are intensely sheared, contoured, carbonated and difficult to identify.

The east half of the property, north of the carbonate zone, is underlain by metasediments generally thin bedded, contoured and highly carbonated with considerable quartz veins and stringers.

Over the west part of the property a relatively narrow band of talc chloritic-carbonate schist and mafic volcanics borders the massive carbonate zones.

A wide band of fine grained, sheared and often carbonated trachyte flows and tuffs cover the west central portion of the property. They are not uniformly carbonate but contain zones or horizons of carbonated, sheared rock cut by quartz veins and stringers. Strikes are generally a little north of west; dips vary from vertically to steeply north and south.

The balance of the property is largely underlain by metasediments, predominantly argillite and greywacke. They are largely sheared, sericitized and generally carbonated but contain zones or horizons completely altered to a carbonated talc-sericitic schist. Quartz and carbonate stringers and veins are common. They are generally steep dipping but are often crumpled and contoured.

In the northeast quarter several bands of schistose, basic metavolcanics are intercalated with the sediments. In places the metavolcanics are highly carbonated.

In the northwest corner a massive, fresh looking, pink, fine grained syenite invades the sediments. One outcrop of a trachytic tuff lies to the west of the syenite. Elongated, irregular shaped fragments of grey felsic material occur in a light coloured matrix.

Possibly the most surprising results of the mapping and of a magnetometer survey was the defining of two bands of iron formation. Largely by magnetics a band possibly 100' wide can be traced across the property. From 10 W to 20 W, readings to 10,000 gammas (over a background of 500 to 700 gammas) indicate the iron formation. There are no outcrop in this area. To the east the iron formation apparently weakens and grades into chert with minor magnetite and narrow pyrite bands. Near line 2E, 12N, narrow vertical bands of well bedded chert with parallel thin layers of pyrite are evident in pits within a heavily carbonatized zone containing massive carbonate.

Immediately north of the main carbonate zones a narrow band of lean magnetite iron formation, 3 to 5 feet wide, can be traced for about 1,000 feet. It is highly irregular and was only traced by detailed geophysics, and stripping over magnetic highs.

Dr. R. H. Ridler, in Vol. 21, 1970, the Geological Association of Canada publication, has proposed that the carbonate zones are carbonate facies exhalites and are genetically related to the oxide and sulphide chemical facies. Ridler further suggests that the commercial gold deposits found in the carbonate zones are syngenetic.

Observations on the Mayfair property appear, in the writer's opinion, to support Dr. Ridler's proposals.

Surface prospecting has been intensive as is evident by deep and extensive trenches, rock pits and shallow shafts. 29 drill holes have been put down - nine in the main carbonate zone immediately north of the highway. Results to date have been disappointing but the potential of the numerous carbonate zones is by no means eliminated.

If Dr. Ridler's theory is correct, then the north band of iron formation deserves further consideration.

ECONOMIC GEOLOGY OF THE PROPERTY

A map on a scale of 1" = 200 feet has been prepared to show the entire property.

All drill holes have been shown for which locations could be found. 9 holes are shown to have tested the carbonate zone which extends across the property. Two holes, No. 01 and 04 returned values of 0.06/5.0' and 0.06/7.0' respectively. At present gold prices of \$130.00/oz., these values are \$9.80.

The holes, though not necessarily of ore value, indicate a gold-bearing area within the carbonate zone which warrants further investigation. Enclosed are longitudinal sections showing the carbonate ores of the Kerr Addison and the carbonate gold-bearing zones on the Queenston property (Figures 1 & 2). It is evident from these maps that the size, distribution and attitude of the carbonate ore bodies are highly erratic and unpredictable. It has been the experience at both Kerr Addison and Queenston that when values are encountered they must be pursued with detailed drilling. It is the writer's opinion that the carbonate rocks between lines 00 and 6W is such an area that warrants further drilling.

At the Kerr Addison Mine the most important source of ore has been the flow type ores which are found in the volcanics immediately south of the carbonate zone. These rocks on the Mayfair property are poorly exposed and have received only a limited investigation by drilling. They warrant further testing.

In the Kirkland Lake Area, within the Temiskaming sediments, is a band of grit which locally is uraniferous. Radioactivity has been found and investigated in a number of locations. See Figure 3. The most significant known showing has been near the Lebel-Gauthier Townships boundary which was trenched and drilled by Rio Tinto Canadian Explorations Limited. Tested over a length of 300 feet best results from drilling were 0.1 lb. U_3O_8 /9.6' and 0.5 lb. U_3O_8 /1.9 feet. Although not of ore grade, showings of this type in sediments warrant further investigation. It has been reported by a local prospector of good repute that a similar radioactive showing exists on the Mayfair ground in the vicinity of claim 373800. This occurrence should be relocated and evaluated.

DRILLING RESULTS

During 1976, 4 holes, totalling 1,945 feet, were drilled to test the carbonate area of the Larder Lake "Break" between L 4 W and L 8 W.

Hole M 76-1 after about 115 feet of mafic lavas and tuffs, the remainder of the hole was essentially a talc chlorite schist containing about 50 feet (170 - 220) of green carbonate rock and a number of narrow interbedded trachyte flows, some trachytic tuff horizons and a few narrow pink syenite dikes.

The values show a close spatial relationship to the syenite intrusives. The green carbonate was devoid of gold values although the syenite intrusives within the carbonate contain gold values.

Hole M 76-2 intersected a similar sequence of rocks with the gold values occurring again within the syenite both within and beyond the green carbonate.

Hole M 76-3 lost in overburden.

Hole M 76-3A showed a distinct weakening of the green carbonate zone and the syenite intrusive within it was reduced to a few 2" dikes or tongues. The hole apparently did not continue sufficiently to the north to cut the other syenitic intrusive body. None of this hole has been assayed. However, it is planned to re-log all of the core and split further sections.

A fresh looking, unaltered, grey feldspar porphyry intrusive was intersected in two of the holes. It is the youngest rock encountered and apparently later than the gold.

CONCLUSIONS

The limited drilling revealed low but persistent values in syenite dikes which apparently correlate from holes 76-1 and 76-2, a distance of 200 feet. The carbonate zone and the contained syenite zone appear to weaken to the west.

It has been the experience at Kerr Addison Mines and at most of the Kirkland Lake Area mines that detailed drilling is required to accurately

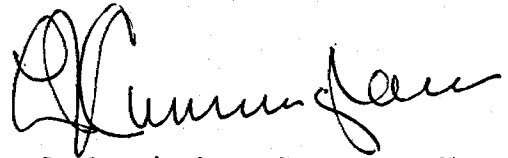
Mayfair, Gauthier

- 7 -

assess the gold content of gold bearing structures. The persistent gold values encountered in this limited drilling, which compares quite accurately with the earlier drilling, warrants, in the writer's opinion, further testing.

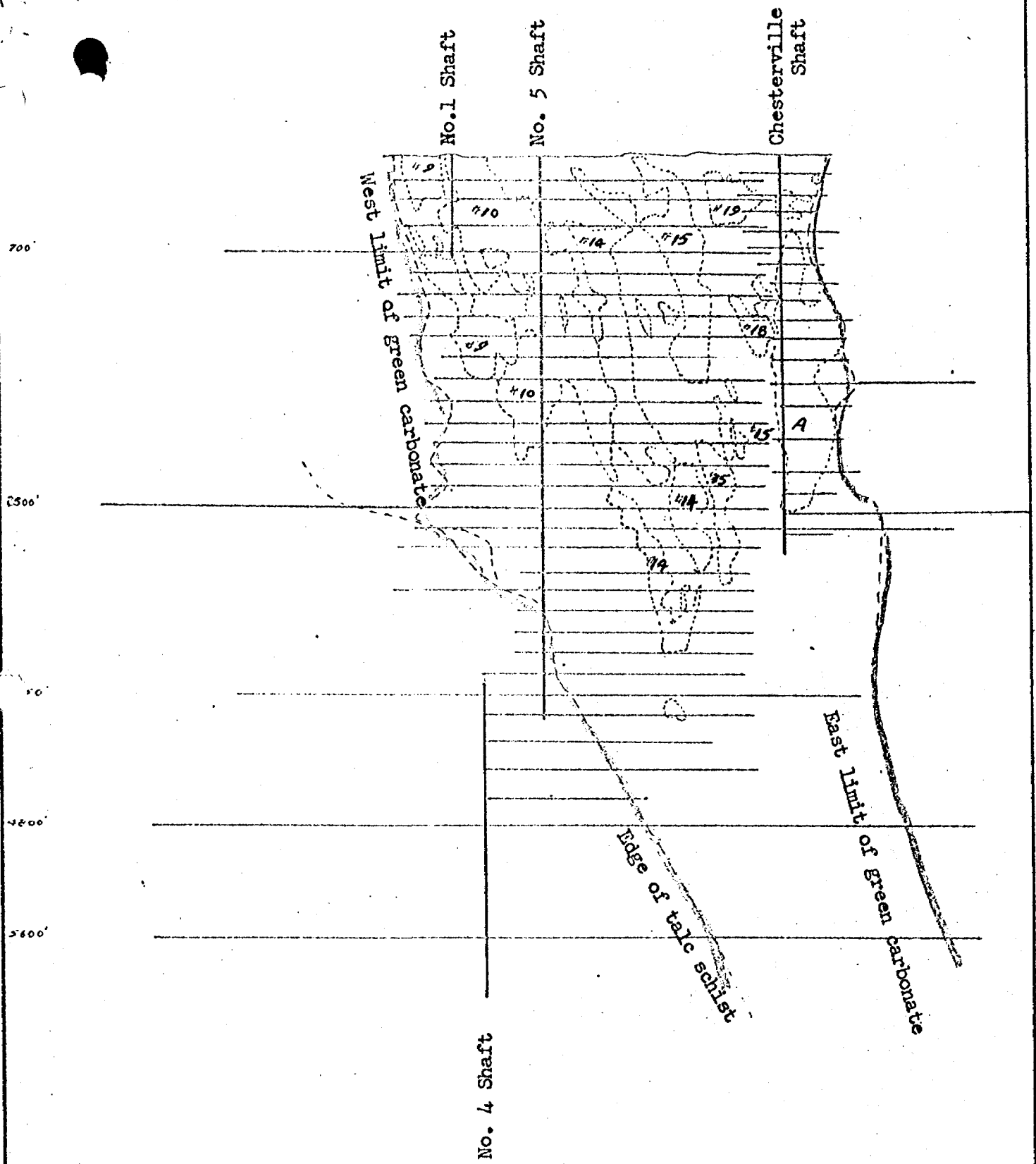
No rocks or mineralization were encountered that were suggestive of flow type ore of the Kerr Addison type.

Signed,

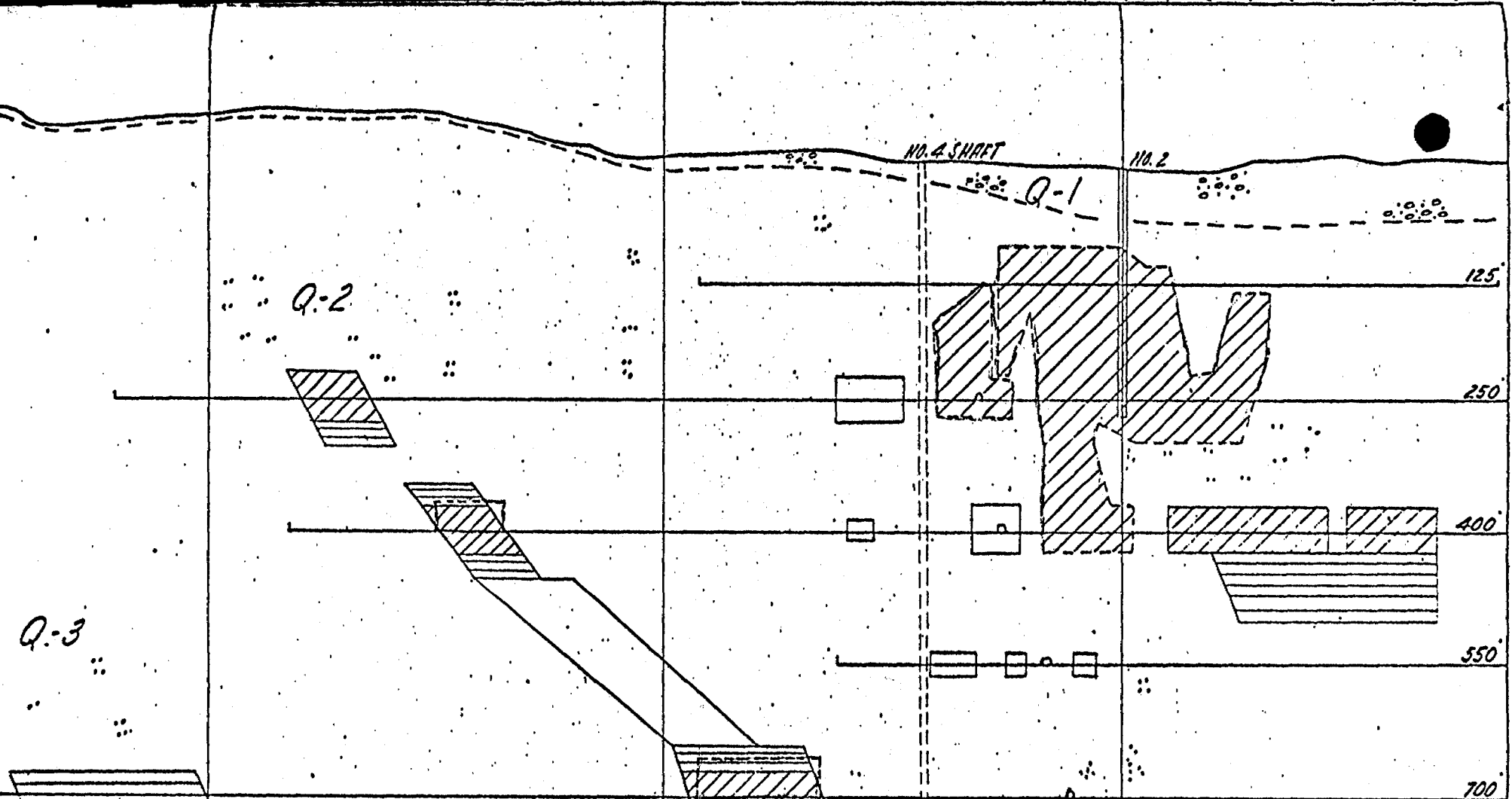


L. J. Cunningham, B.Sc., P. Eng.,
Mining Engineer

Dated at
Kirkland Lake, Ontario
28th February, 1977



KERR ADDISON MINES, LTD.		VIRGINIATOWN, ONT.	
Vertical Longitudinal Section			
Projection of Carbonate Ore Zones			
SCALE 1" = 1000'	DRAWN BY _____	FIGURE 1	
DATE _____	CRD BY _____		
APPROVED _____			



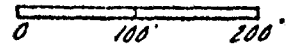
LEGEND

	Q-1	Q-2	Q-3
- PROBABLE GRADE - OZ./TON	269,983 .134	24,375 .16	
- POSSIBLE	20,700 .18	44,200 .15	6,720 .15
- INFERRED	9,120 .14	46,500 .15	3,360 .15
GOLD MINERALIZATION			
TOTAL TONS GRADE - OZ./TON	299,803 .14	115,075 .15	10,080 .15
GRIND TOTAL - 424,958 x .14 OZ./TON			

1951 GOLD RESERVE CALCULATIONS

- 255,683 TONS, GR. 0.136 OZ./TON

VERTICAL LONGITUDINAL SECTION
QUEENSTON DEPOSIT
QUEENSTON GOLD MINES LTD.
GOLD RESERVES

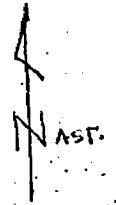
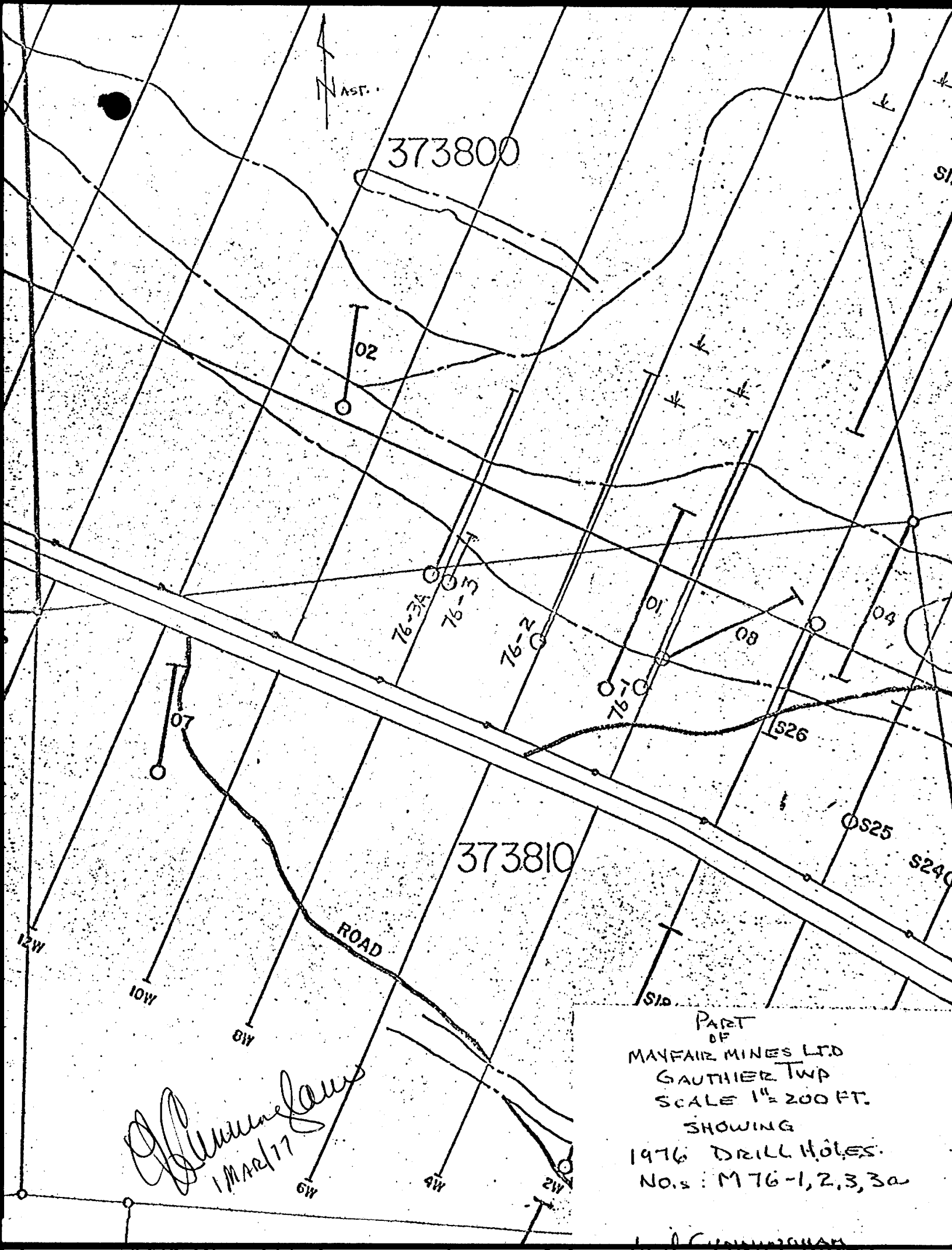


R.M.G. & L.J.C. FIGURE 2
TR. BY R.G. - 12/1/75

SEC. 90+00

SEC. 95+00

SEC. 100+00



373800

02

76-3a

76-3

76-2

76-1

01

08

04

07

S26

S25

S240

373810

ROAD

12W

10W

8W

6W

4W

2W

PART OF
MAYFAIR MINES LTD
GAUTHIER TWP
SCALE 1" = 200 FT.
SHOWING
1976 DRILL HOLES.
No.s : M 76-1, 2, 3, 3a

[Handwritten Signature]
1 MAR 77

L. J. CUNNINGHAM

PROPERTY MAYFAIR MINES LIMITED

Claim L. 373810
 LOCATION: 1801 West and 250'
 LATITUDE: south of #1 Post
 DEPARTURE:
 ELEVATION: IAW 2 + 00S

HOLE No. M76-1

STRIKE: N 30° E
 DIP: - 50°
 DATE DRILLED: 2 - 5 July, 1976

PAGE No. 1

PURPOSE: To check values of drilling in 1930's

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
0 - 66	CASING			
66 - 79	BASIC VOLCANICS fine grained, dark green, minor scattered pyrite	74 - 76 40356 76 - 78 40357	2' 2'	Nil Nil
79 - 83	TUFF Mafic tuff with dark red (syenitic) elongated narrow (1 cm wide) fragments - a little pyrite bedded 60 - 70°/core			
83 - 95	MAFIC UNIT possibly an intrusive - uniform appearance still, med. grained, black-grey, weakly magnetic, scattered pyrite - medium hardness			
95 - 98	ULTRAMAFIC FLOW soft talcose			
98 - 109	MAFIC UNIT as 83-95 possibly intrusive sill - medium hardness, scattered pyrite			
109 - 110	INTERFLOW MATERIAL? f.g., med. hardness, banding 80°/core			
110 - 115	MAFIC UNIT as 83-95 & 98-109	103 - 106 40358 108 - 109 40359 110 - 111 40360	3.0 1.0 1.0	Nil Nil Nil
115 - 118	SOFT TALCOSE possible ultramafic or interflow sediment			
118 - 124	As 83-95 & 98-109			
124 - 129	SOFT TALCOSE possible ultramafic as 115-118	127.5-129.5 40361	2.0	Nil
129 - 133	MAFIC UNIT possibly intrusive as 83-95 & 98-109	129.5 - 132 40362	2.5	Nil
133 - 138	SOFT TALCOSE possible ultramafic flow			
138 - 139	MAFIC UNIT as 83-95 & 98-109			
139 - 142	TALCOSE ROCK possible ultramafic			
142 - 147	MAFIC TO INTERMEDIATE FLOW OR SILL some silicification over 142-144 - ± 3% pyrite	142 - 145 40363 145 - 147 40364	2.0 2.0	Nil Nil
147 - 170	TALCOSE ROCK soft, black with much quartz & carbonate although does not effervesce readily. probably ultramafic	169 - 171 40365	2.0	.002
170 - 200	GREEN CARBONATE ROCK with prominent banding 20 - 50°/core and pink syenite dikes at 170-171 - fine grained much white quartz 180-184 f.g. cut by random quartz stringers - 3 to 5% pyrite	173 - 176 40366 180 - 184 40367	2.5 4.0	Nil .04
200 - 256	GRADATIONAL CONTACT to similar rock type but grey with some green - talcose, schistic probably an altered mafic volcanic now talc-chlorite schist			possibly altered ultra-mafic
- 273	foliated or bedded - 60°/core			
273 - 286	TRACHYTE FLOW pale pink, f.g., cut by qtz. stringers showing flow to breccia over about 15"			

DRILLED BY: Heath & Sherwood Drilling Ltd.

SIGNED

L. J. Cunningham, B.Sc., P.Eng.

PROPERTY MAYFAIR MINES LIMITED

Claim I.373810

HOLE No. M76-1

LOCATION: _____

LATITUDE: _____

DEPARTURE: _____

ELEVATION: _____

STRIKE: _____

DIP: _____

DATE DRILLED: July 1976

PAGE No. 2

PURPOSE: _____

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE	
		273 - 275	40393	2.0	NIL
		275 - 277.5	40394	2.5	
		277.5 - 280	40395	2.5	
		280 - 283	40396	2.0	
		283 - 286	40397	3.0	
	Narrow zone of silicification and colour change adjoining qtz. veins				
286 - 295	TALC-CHLORITE SCHIST metamorphosed mafic tuffs 60-80°/core soft grey, some banding or bedding?				
295 - 298	DARK PURPLISH TRACHYTE TUFF OR FLOW	40398	3.0	NIL	
298 - 312	Mixture of TALC CHLORITE SCHIST (metavolcanics) and thin TRACHYTIC TUFFS OR FLOWS suggested bedding 60-80°/core				
312 - 349	TALC-CHLORITE SCHIST pale grey banded from parallel to 50°/core				
	322 - 4" pink trachyte with 5% pyrite				
349 - 410	QTZ. FELDSPAR PORPHYRY pink to flesh to purplish colour Distinct flesh coloured (whitish) phenocrysts No chilling at contacts maybe a porphyritic trachyte flow				
410 - 435	TALC-CHLORITE SCHIST (metavolcanic) with 5% trachytic material included bedding or banding 60 - 80°/core				
435 - 475	MIXTURE with trachytic material predominating with some mafic gabbro flow? and some talc chlorite schist suggesting of bedding varying 30° to 60°/core Some sections appear gneissic, being mixture of pink materials & black ferromagnesian minerals with prominent banding				
	455-458 mineralized trachyte	40399	3.0	NIL	
475 - 496	TALC-CHLORITE SCHIST				
496 - 520	MAFIC ROCK foliated gabbroic flow black to faint brownish red cast - 60°/core				
520 - 525	TALC CHLORITE SCHIST				
525 - 534	TRACHYTIC ROCK not too unlike 496-524 but more pink in colour but still large percentage of ferromagnesian minerals possibly a mixture of trachyte & mafic tuff foliated - 70°/core				
		525 - 528	40155	3.0	NIL
		528 - 531	40156	3.0	NIL
		531 - 534	40157	3.0	NIL
534 - 600	MIXTURE 70% TALC CHLORITE SCHIST (metavolcanic) and 30% TRACHYTIC TUFF (gneissic in appearance) foliated 70°/core				
600 - 609.5	MIXTURE 90% TRACHYTIC ROCKS & 10% MAFIC ROCK Some pyrite				
		600 - 603	40158	3.0	.005
		603 - 606	40159	3.0	.002
		606 - 609	40160	3.0	.002

DRILLED BY _____

SIGNED _____

[Handwritten Signature]

PROPERTY MAFAR MINES LIMITED

Claim I., 373810

HOLE No. M76-1

LOCATION: _____
 LATITUDE: _____
 DEPARTURE: _____
 ELEVATION: _____

STRIKE: _____
 DIP: _____
 DATE DRILLED: July, 1976

PAGE No. 3

PURPOSE: _____

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE	
609.5 - 621.5	PINK TRACHYTE (OR SYENITE?) massive, appears conformable				
621.5 - 667	MIXTURE 80% MAFIC TRACHYTE & 20% TALC CHLORITE SCHIST - the mafic trachyte appears gneissic - foliated or bedded 70 - 90 / core				
	Occasional sections porphyritic 2% pyrite	615.5 - 617.5 617.5 - 619.5 619.5 - 621.5	40161 40162 40163	2.0 2.0 2.0	.11 .04 .125
621.5 - 667	MIXTURE 80% MAFIC TRACHYTE & 20% TALC CHLORITE SCHIST - the mafic trachyte appears gneissic - foliated or bedded 70 - 90 / core	629 - 630.5	40164	1.5	.005
667	END OF HOLE				
	NOTE: SLUDGE ALL NIL EXCEPT:				
		176-186	.005		
		186 - 196	.004		
		196-206	.002		
		206-216	.005		
		216-226	.01		
		230-240	.002		
		240-250	.004		

CORE SIZE A X TL
 STORED AT UPPER CANADA MINE SITE
 DOBIE, ONTARIO

DRILLED BY H & S Drilling

SIGNED J. J. Cunningham
 J. J. Cunningham, B.Sc., P.Eng.

PROPERTY MAYFAIR MINES LIMITED

Claim 373810

HOLE No. M76-2

LOCATION: 650' W & 140' S of

LATITUDE: No. 1 Post

STRIKE: N 30° E

PAGE No. 1

DEPARTURE: _____

DIP: 50°

ELEVATION: L 6 W 2 + 00 S

DATE DRILLED: 15 - 20 July, 1976

PURPOSE: To test the westerly extension of zone of Hole M 76-1

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
0 - 75	CASING			
75 - 120	Black, med. grained to coarse, uniform MAFIC ROCK may be basic syenite or syenitized volcanic Rich in ferromagnesian minerals, foliated, few pale pink syenite (f.g.) inclusions 96-99 lost water 50% LOST CORE @ 97 narrow 1 cm. qtz. calcite rusty bands - 90°/core appears intermediated with the following			
120 - 149	TALC-CHLORITE SCHIST very soft, light coloured grey rock with faint green cast showing banding (which may be bedding) 1 cm thick, alternately white to grey to dark - 20° to 45°/core Sections show small black spots 1 mm - 3 mm size, may be magnetite, rounded appearance - may be tuff 140-141 6" pink syenite dike - 30°/core fine & coarse pyrite	40368	6"	.002
149 - 159	TALC-CHLORITE SCHIST brecciated, heavily cut but qtz. carb. stringers veins & blobs increase in green colour; short sections approaching green carbonate rock			
159 - 170	TALC-CHLORITE SCHIST pale grey to pale green, cut by few qtz. carb. stringers 161-162 pale pink or buff coloured f.g. dike, fine pyrite 30°/core green carbonate developed from 168 - 170	40369	1.0	Nil
170 - 172	Pale pink SYENITE very little qtz. fracturing ± 1% pyrite	40370	2.0	Nil
172 - 174.5	Pink SYENITE f.g., uniform, a little pyrite	40371	2.5	Nil
174.5 - 181	Green carbonate - contorted - banding or bedding from parallel to 45°/core			
181 - 183	6" banded purple to pink to pale green syenite? 4" green (brecciated) carbonate 12" brecciated quartz, pink syenite, green carbonate, a little pyrite, becoming brownish in colour toward bottom of section 6" brecciated green carbonate	40372	2.0	Nil
183 - 185	Green carbonate			
185 - 193	F.G. pink Syenite cut by qtz. veins & stringers 185-187 5% fine pyrite 187-189 same 189-191 25% qtz. 191-193 foliated 45°/core colour varying from pale green to buff to pink to purple a little pyrite	40373 40374 40375	2.0 2.0 2.0	.055 .005 .005
193-200	Green carbonate cut by qtz. carb. veins - green colouring grading out into a grey talc chlorite schist - both types showing foliation at 30° to 45°/core	40376	2.0	.005

DRILLED BY Heath & Sherwood Drilling

SIGNED

L. J. Cunningham
L. J. Cunningham, B.Sc., P.Eng.

PROPERTY MAYFAIR MINES LIMITED
 Claim L.373810

HOLE No. M 76-2

LOCATION: _____
 LATITUDE: _____
 DEPARTURE: _____
 ELEVATION: _____

STRIKE: _____
 DIP: _____
 DATE DRILLED: July, 1976

PAGE No. 2

PURPOSE: _____

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
200 - 272.5	TALC-CHLORITE SCHIST soft grey, foliated or banded 30 to 50°/core			
272.5 - 295	QUARTZITE MAFIC ROCKS - foliated - basic syenite tuff? syenitized in varying degrees from narrow wyenite tongues, dikes to faint pink stringers & inclusions foliated from 10° to 60°/core			
	276.5-278.5 f.g. dense felsic dike a little pyrite	40377	2.0	Nil
	293-295 pink to black syenitized rock + 5% pyrite	40378	2.0	Nil
295 - 297	Same highly irregular syenitic stringers & veins	40379	2.0	Nil
297-299.5	same	40380	2.5	Nil
299.5 - 316	TALC-CHLORITE SCHIST (metavolcanics) with minor cross- line mafic flow or basic syenite			
316 - 329	MAFIC ROCK med. grained, uniform, black with grey speckles medium hardness			
329 - 331	TALC CHLORITE SCHIST			
331 - 333	PORPHYRITIC FELSIC DIKE dark, dense, fractured oxidized	40381	2.0	Nil
333 - 345	INTERMEDIATE & FELSIC FLOWS OR SILLS? dark grey, banded or bedding - 70°/core			
345 - 372	TALC CHLORITE SCHIST except 354-358 felsic tuff, light grey fragments in dark matrix, bedding 45° to parallel to core			
372 - 373	PORPHYRITIC SYENITE OR TRACHYTE appears conformable 45° to 60°/core at contacts	40382	1.0	Nil
373 - 378	MAFIC TUFF - 60°/90°/core			
378 - 387	SERIES OF SYENITE DIKES OR TRACHYTE FLOWS constituting 90% of the rock; fine pyrite - contacts 60°-70°/core			
	378 - 380	40383	2.0	Nil
	380 - 382	40384	2.0	Nil
	382 - 384.5	40385	2.5	Nil
	384.5 - 387	40386	2.5	Nil
387 - 401	MAFIC TUFF dark crossline, med. gr. as earlier sections foliated, densely packed trachyte fragments ± 1 cm. in dark matrix			
401 - 403.5	) Mineralized ± 3% pyrite	40387	2.5	.07
403.5 - 406	) fractured (qtz. carb. veins)	40388	2.5	.08
406 - 408.5	) syenite dike, chilled edges	40389	2.5	.04
408.5 - 463	MAFIC ROCK dark crossline as earlier section, foliated gabbro			
463 - 482	TALC CHLORITE SCHIST soft, grey foliated or bedded 45° to 70°/core			
482 - 508	ULTRAMAFIC FLOW? dark, f.g., massive rock, grading into talc chlorite schist at about 500			

DRILLED BY _____

SIGNED _____

PROPERTY MAYFAIR MINES LIMITED

Claim L. 373810

HOLE No. M76-2

LOCATION: _____
 LATITUDE: _____
 DEPARTURE: _____
 ELEVATION: _____

STRIKE: _____
 DIP: _____
 DATE DRILLED: July, 1976

PAGE No. 3

PURPOSE: _____

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE	
508 - 607	PREDOMINANTLY GABBRO ROCKS as above; now thought to be coarse mafic flows (they appear conformable and contain short sections of talcosé schisted mafic tuff at 60°/core and a 6" pink trachyte section at 540, mineralized with coarse & fine pyrite)	40390	0.5	Nil	
607 - 637.5	TALC CHLORITE SCHIST light grey, sheared or foliated 60 - 70°/core				
637.5 - 642	SYENITE f.g., dense, uniform, dark purple grey, mineralized with 3% pyrite	637.5 - 640 640 - 642	40392 40392	2.5 2.0	Nil Nil
642 - 677	TALC CHLORITE SCHIST				
677 - 697	SYENITE, f.g. dense, purple 3% pyrite	677 - 679.5 679.5 - 682 682 - 684.5 684.5 - 687 687 - 689.5 689.5 - 692 692 - 694.5 694.5 - 697	40165 40166 40167 40168 40169 40170 40171 40172	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	Nil Nil Nil Nil Nil .002 .002 .005
697	TALC CHLORITE SCHIST				

CORE SIZE AXTL
 CORE STORED AT Upper Canada Mine site.
 DOBIE, ONT.

DRILLED BY H & S Drilling

SIGNED _____

L. J. Cunningham, B.Sc., P.Eng.

PROPERTY MAYFAIR MINES LIMITED

Claim L.373810

HOLE No. M76-3

LOCATION: 830' W & 140' S of

LATITUDE: #1 Post

STRIKE: N 30° E

PAGE No.

DEPARTURE: Grid Location:

DIP: 50°

ELEVATION: L 81W - 2 + 00 S

DATE DRILLED: 21 - 22 July, 1976

PURPOSE: To test the westerly extension of Holes M 76-1 & 76-2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
0 - 71	CASING			
71 - 102	MAFIC SYENITE med. grained, dark, foliated, gabbroic in texture badly broken 20% LOST CORE			
	102 - hole abandoned, after hole entered overburden at 102 and rods stuck - ledge or huge boulder Core size A x T L - CORE ABANDONED AT DRILL SITE			

DRILLED BY H & S Drilling

SIGNED

L. J. Cunningham, B.Sc., P.Eng.

PROPERTY Mayfair Mines Limited

Claim L.373810

HOLE NO. M76-3A

LOCATION:

LATITUDE: 800 W & 20 S of #1

STRIKE: N 30° E

DEPARTURE: Post 373810

DIP: 50°

PAGE NO. _____

ELEVATION: Grid Location -

DATE DRILLED: 23 - 31 July, 1976

1817 1 + 75S

PURPOSE: To test the westerly extension of zone of holes M 76-1 & 76-2

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
0 - 72	OVERBURDEN			
72 - 125	BASIC SYENITE - biotite rich rock, massive, uniform, dark, med. grained, called biotized ultra mafic by L. Jensen. 110 - 125 becoming more pinkish in colour and cast few inclusions one large 10 cm quartz feldspar inclusion			
125 - 145	MAFIC TUFF well bedded 30° - 45°/core with short sections of talc chlorite schist @ 140-142, 143-144			
145 - 178	TALC-CHLORITE SCHIST 152-158 2' Lost Core 154 1" pink syenite			
178 - 213	CARBONATE ZONE - weakly green in colour - random qtz. veins, crumbled and contoured 203-215 syenite rich zone syenite present as narrow dikes 1" - 2" wide or as large bombs and as a tuff pinkish in colour bedded 45°/core 207-212 100% syenite tuff & few qtz. stringers, fine pyrite ± 3% 222 - 2" pink syenite dike? foliated may be trachytic tuff conformable 30 60°/core			
213 - 230	TALC CHLORITE SCHIST			
230 - 262	TRACHYTE RICH TUFF bedded 30° - 45°/core some fine bedded tuff but some of lapilli & agglomeratic size Colour pink to flesh Narrow sections mineralized with coarse & fine pyrite ± 3% Few narrow sections of T.C. schist @ 235-238			
262 - 269	FELDSPAR PORPHYRY dark flesh to buff coloured rock, numerous fine 1 mm - 3 mm feldspar phenocrysts, sharp contacts - 60°/core 1-2% pyrite			
269 - 276	TUFF - MASSIVE TUFF flesh coloured TRACHYTIC fragments in dark matrix bedding 45° - 30°/core			
276 - 281	TALC CHLORITE SCHIST			
281 - 292	FAULT ZONE - 50% Lost Core or Talc Chlorite Schist balance soft crumpled, broken T.C. schist.			
292 - 302	TUFF syenitic rich, indistinct bedding - 60°/core with 2 only 6" buff coloured siliceous dikes or conformable flows with sharp contacts, fine grained pyrite 2 - 3%			
302 - 357	ALTERED ULTRAMAFIC dark grey, uniform, weakly magnetic, massive, talcose rock. Occ. short sections of coarse pyrite mineralization dark grey, usually soft, black portion usually hard.			
357 - 355	Two f.g. grey siliceous dikes with coarse pyrite, sharp contacts contacts approx. 45°/core			
355 - 371	ALTERED ULTRAMAFIC black, soft, talcose, magnetic			

DRILLED BY Heath & Sherwood Drilling

SIGNED

L. J. Cunningham
L. J. Cunningham, B.Sc., P.Eng.

PROPERTY Mayfair Mines Limited

Claim 1373810

HOLE NO. M76-3A

LOCATION: _____
 LATITUDE: _____
 DEPARTURE: _____
 ELEVATION: _____

STRIKE: _____
 DIP: _____
 DATE DRILLED: July, 1976

PAGE NO. 2

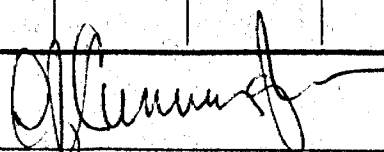
PURPOSE: _____

FOOTAGE	DESCRIPTION	SAMPLE NO.	WIDTH	ASSAY VALUE
371 - 386	MAFIC SYENITE dark pinkish cast with large & small inclusions of mafic to felsic composition 382-384 mineralized pink section \pm 2% pyrite			
386 - 390	ALTERED ULTRAMAFIC black soft talcose			
390 - 395	MAFIC SYENITE as above			
395 - 401	FEJDSPAR PORPHYRY coarse whitish phenocrysts up to 1 cm size in grey matrix, fresh unaltered rock			
401 - 408	TALC - CHLORITE SCHIST altered ultramafic?			
408 - 425	MAFIC SYENITE dark, uniform, med. grained rock few apparent inclusions? with short sections of thin ultramafic flow or mafic tuffs 30° - 45°/core			
425 - 428	MAFIC SYENITE TUFF			
428 - 449	TALC-CHLORITE SCHIST with a few short 1-2 cm. of mafic syenite tuff 50°-60°/core apparently conformable			
449 - 455	SYENITIC TUFF - lapilli size - flesh coloured, distorted, elongated fragments in a dark matrix			
455 - 462	MIXTURE Soft pelitic banded sediment & hard syenitic tuff - 30°-45°/core			
462 - 479	TRACHYTE TUFF grey to flesh coloured fragments in dark matrix foliated or bedded 30°/core fine pyrite 1 - 3%			

SIZE AXTL

CORE STORED AT Upper Canada Mine site
 DOBIE, ONTARIO

DRILLED BY H & S Drilling

SIGNED 
 J. J. Cunningham, B.Sc., P.Eng.



32D04SW0066 63.3456 GAUTHIER

020

ON
A MAGNETOMETRIC SURVEY
ON
THE GAUTHIER TOWNSHIP PROPERTY
MAYFAIR MINES, LIMITED
KIRKLAND LAKE AREA

LOCATION & DESCRIPTION

The groups consists of 5 contiguous unpatented mining claims numbered as follows: L.428868 - 428871 inclusive and L.373804. Located in the southeast corner of Gauthier Township, the claims lie 12 miles east of Kirkland Lake, Ontario and are crossed by Highway 66, the O. N. Railway and power lines of the Ontario Hydro. Numerous bush roads passable to tractors give access to other parts of the property.

HISTORY

Prior to 1938 the following work had been completed:

1. Line cutting at 200 foot centres over the property north of the Misema River.
2. A geological survey
3. Prospecting, trenching and 3 shallow shafts
4. A drilling program by Olivet Mines
5. A drilling program by Ventures Limited
6. A geophysical survey (type unknown)

A copy of the geological map exists but unfortunately the rock types are not identified. It does, however, show the locations of drill holes, shafts and trenches. The records of the Ministry of Natural Resources in Kirkland Lake show logs for 29 drill holes, the location of which are shown on Map 50C which accompanies the report. Total footages drilled in the 29 holes was 14,703 feet.

GENERAL GEOLOGY

The Timiskaming Group unconformably overlies a thick volcanic succession up to 19,000 metres thick (Ridler, 1970). The composition of these volcanics ranges from tholoiitic basalts to rhyolites, with the more felsic material generally higher in the stratigraphic section.

Conglomerate, sandstone, siltstone, argillite, chert and iron formation are contained in the sedimentary portion of the Timiskaming. The Timiskaming also includes volcanic rocks which are largely trachytic and leucitic in composition, along with some minor basalt and andesite.

ECONOMIC GEOLOGY OF THE AREA

Several types of gold ores are recognized in the Kirkland-Larder area. In the Town of Kirkland Lake, the mines which were 7 in number occur along the Kirkland Lake fault zone where it cuts a syenitic intrusive. The zone is a network of faults and fractures containing quartz, calcite, pyrite and gold.

At the Kerr Addison Gold Mines Limited, two types of orebodies are recognized. The carbonate type consists of irregular lenses of gold-bearing quartz stockworks lying within the altered and brecciated carbonate zone. The second type, called flow ores, consists of lenses of mineralized and silicified volcanic flow rocks lying south of the carbonate zone. Pyrite is the principal mineralization and contains most of the gold.

The most favourable area on the property is along the Larder Lake 'break' and the carbonate zone which accompanies it. This zone extends for 3,000 feet across the property.

PROCEDURE

Magnetic readings were taken at 100 foot intervals along each traverse line. Diurnal drift was corrected by the standard looping method every two hours or so and distributing the drift linearly with time. A base station was established at O, L 10 E on the main or south base line and all readings were adjusted to conform with the magnetometer survey on the adjoining Mayfair claims which was submitted as assessment work on 3 November, 1975.

DISCUSSION OF RESULTS

O.D.M. Geological Map 50C, Gauthier Township, shows the area to be underlain by fine grained Temiskaming sediments.

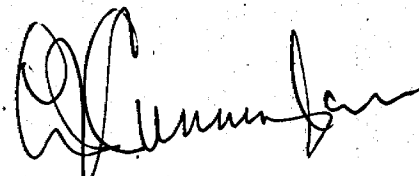
The magnetics show only two areas of variable relief. Immediately north of the railroad track in claim L.428868, several readings, ranging over 1000 gammas above background, are believed to represent a narrow band of oxide iron formation. As noted on the map, a band of oxide iron formation has been located and traced across claims 373801 and 373803. The anomalous readings on L 26 E, Claim L.428868, are believed to represent the continuation of this band.

An anomaly of low intensity at 23N, L 2 E, is unexplained but may be due to a diabase dike which dikes are not uncommon in the area. The high reading on L 18 E is thought to be caused by a drill casing.

In the writer's opinion, the magnetic survey confirms the existence of the oxide iron formation across the Mayfair property.

In the last few years Dr. R. H. Ridler, Geological Survey of Canada, has suggested in a number of papers that the carbonate gold ores of the Larder Lake Area are metamorphosed facies iron formation and that oxide facies may grade laterally into carbonate facies. If Ridler's theory is valid the recognition of the iron formation on the Mayfair property may have economic significance.

Signed,



L. J. Cunningham, B.Sc., P.Eng.,
Mining Engineer

Dated at
Kirkland Lake, Ontario
30th July, 1976

Revised
1 MAR 17

GEOPHYSICAL TECHNICAL DATA

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

Number of Stations 141 Number of Readings 130
Station interval 100 feet with 25' detail Line spacing 400 feet
Profile scale
Contour interval 100 gammas

MAGNETIC

Instrument MC PHAR M 700
Accuracy - Scale constant VERTICAL FIELD - 10 GAMMAS
Diurnal correction method BY A LOOPING METHOD + DISTRIBUTION OF THE DRIFT
Base Station check-in interval (hours) 2 HOURS
Base Station location and value BASE LINE - LINE - 360 GAMMAS

ELECTROMAGNETIC

Instrument
Coil configuration
Coil separation
Accuracy
Method: [] Fixed transmitter [] Shoot back [] In line [] Parallel line
Frequency (specify V.L.F. station)
Parameters measured

GRAVITY

Instrument
Scale constant
Corrections made
Base station value and location
Elevation accuracy

INDUCED POLARIZATION RESISTIVITY

Instrument
Method [] Time Domain [] Frequency Domain
Parameters - On time Frequency
- Off time Range
- Delay time
- Integration time
Power
Electrode array
Electrode spacing
Type of electrode



Swastika, Ont., POK 1T0, 19

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. _____

46199

We have assayed _____ samples of _____

Received thirty-seven and submitted by split core and sludge

July 8, 1976

Mayfair Mines Limited,

with the following results:

per: L. J. Cunningham, Esq.

Sample No.	Gold Ouz/ton	Sample No.	Gold Ouz/ton
40356	Nil	N-76-1 185-196	0.004
40357	Nil	196-206	0.002
40358	Nil	206-216	0.005
40359	Nil	216-226	0.01
40360	Nil	230-240	0.002
40361	Nil	240-250	0.004
40362	Nil	250-260	Nil
40363	Nil	260-270	Nil
40364	Nil	270-280	Nil
40365	0.002	280-290	Nil
40366	Nil	290-300	Nil
40367	0.04	300-310	Nil
N-76-1 66.76	Nil		
71-81	Nil		
81-91	Nil		
91-101	Nil		
101-111	Nil		
111-121	Nil		
121-131	Nil		
131-141	Nil		
141-147	Nil		
147-156	Nil		
156-166	Nil		
166-176	Nil		
176-186	0.005		

SWASTIKA LABORATORIES LIMITED

In accordance with long-established North American custom, unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the dry assay process.



Swastika, Ont., POK 1T0, July 14, 1976 19.....

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. ²
7,6714

We have assayed thirty-eight samples of sludge

Received July 13, 1976 and submitted by Mayfair Mines Limited.

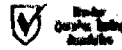
with the following results:

per: L. J. Cunningham, Esq.

Sample No.	Gold Ozs/ton
M76-1 310-320	N11
320-329	N11
329-336	N11
336-346	N11
346-356	N11
356-365	0.002
365-376	0.002
376-384	0.005
384-394	0.002
395-405	0.002
405-415	N11
415-425	N11
425-430	N11
430-441	N11
441-450	N11
450-465	N11
465-475	N11
475-480	N11
480-485	N11
485-492	N11
492-502	N11
502-512	N11
512-522	N11
522-531	N11
531-536	N11
536-547	N11
547-561	N11
561-571	N11
571-580	N11
580-590	N11
590-597	N11
596-601	0.002
601-611	0.01
611-621	0.035
621-631	0.02
631-640	0.005
640-650	0.005
651-657	N11

SWASTIKA LABORATORIES LIMITED,

per: 



Swastika, Ont., POK 1T0, July 23, 1976 19

SWASTIKA LABORATORIES LIMITED

Certificate of Analysts

No. 46233

We have assayed twenty-seven samples of split core

Received July 22, 1976 and submitted by Mayfair Mines Limited.

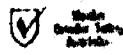
with the following results:
Attention: L. J. Cunningham, Esq.

Sample No.	Gold Oms/ton
40368	0.002
40369	Nil
40370	0.002
40371	0.002
40372	0.005
40373	0.055
40374	0.005
40375	0.005
40376	0.005
40377	Nil
40378	Nil
40379	Nil
40380	Nil
40381	Nil
40382	Nil
40383	Nil
40384	Nil
40385	Nil
40386	Nil
40387	0.07
40388	0.085
40389	0.04
40390	Nil
40391	Nil
40392	Nil
40398	Nil
40399	Nil

SWASTIKA LABORATORIES LIMITED,

per: *[Signature]*

In accordance with long established North American custom, unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.



Swastika, Ont., POK 1T0, July 26, 1976¹⁹

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 46234

We have assayed twenty-three samples of split core

Received July 23, 1976 and submitted by Mayfair Mines Limited.

for analysis: L. H. Cunningham, Esq. with the following results:

Sample No.	Gold Ozs/ton
40155	N11
40156	N11
40157	N11
40158	0.005
40159	0.002
40160	0.002
40161	0.11
40162	0.04
40163	0.125
40164	0.005
40165	N11
40166	N11
40167	N11
40168	N11
40169	N11
40170	N11
40171	N11
40172	N11
40393	N11
40394	N11
40395	N11
40396	N11
40397	N11

SWASTIKA LABORATORIES LIMITED,

per: *[Signature]*

In accordance with long-established North American custom, unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.



Swastika, Ont., POK 1T0,19.....

SWASTIKA LABORATORIES LIMITED

July 8, 1976

Certificate of Analysts

No. 46199

We have assayed samples of

Received thirty-seven and submitted by split core and sludge

July 8, 1976 Mayfair Mines Limited,
with the following results:

per: L. J. Cunningham Esq.

Sample No.	Gold Oza/ton	Sample No.	Gold Oza/ton
40356	Nil	M-76-1 186-196	0.004
40357	Nil	196-206	0.002
40358	Nil	206-216	0.005
40359	Nil	216-226	0.01
40360	Nil	230-240	0.002
40361	Nil	240-250	0.004
40362	Nil	250-260	Nil
40363	Nil	260-270	Nil
40364	Nil	270-280	Nil
40365	0.002	280-290	Nil
40366	Nil	290-300	Nil
40367	0.04	300-310	Nil
M-76-1 66-76	Nil		
71-81	Nil		
81-91	Nil		
91-101	Nil		
101-111	Nil		
111-121	Nil		
121-131	Nil		
131-141	Nil		
141-147	Nil		
147-156	Nil		
156-166	Nil		
166-176	Nil		
176-186	0.005		

SWASTIKA LABORATORIES LIMITED



Swastika, Ont., POK 110, August 3, 1976 19

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 49246

We have analyzed 100 gms dry weight samples of sludge

Received Aug 3 1976 and submitted by Mayfair Mines Limited.

100 gms with the following results:

Sample No.	Gold Ozs/ton
228-238	N11
238-244	N11
244-251	N11
251-264	N11
264-274	N11
274-284	N11
284-294	N11
294-304	N11
304-314	N11
314-324	N11
324-336	N11
336-341	N11
341-357	N11
357-439	N11
439-449	N11
449-459	N11
459-468	N11
468-478	0.002
478-485	N11
485-495	N11
495-495	0.002
495-495	N11
495-405	N11
405-415	N11
415-425	N11
274-261	N11
343-349	N11

SWASTIKA LABORATORIES LIMITED,

per: *[Signature]*

In accordance with long established North American custom, unless it is specifically stated otherwise gold and silver values reported on these sheets have not been adjusted to compensate for losses and gains inherent in the fire assay process.



Swastika, Ont., POK 1T0, July 14, 1976 19.....

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. ³
76/14

We have assayed thirty-eight samples of sludge

Received July 13, 1976 and submitted by Mayfair Mines Limited.

with the following results:
Per J. J. Cunningham, Esq.

Sample No.	Gold Ozs/ton
N/6-1 310-320	Nil
320-329	Nil
329-336	Nil
336-346	Nil
346-356	Nil
356-366	0.002
366-376	0.002
376-384	0.005
384-394	0.002
394-405	0.002
405-415	Nil
415-425	Nil
425-430	Nil
430-441	Nil
441-450	Nil
450-465	Nil
465-475	Nil
475-480	Nil
480-485	Nil
485-492	Nil
492-502	Nil
502-512	Nil
512-522	Nil
522-531	Nil
531-536	Nil
536-547	Nil
547-561	Nil
561-571	Nil
571-580	Nil
580-590	Nil
590-597	Nil
596-601	0.002
601-611	0.01
611-621	0.035
621-631	0.02
631-640	0.005
640-650	0.005
651-657	Nil

SWASTIKA LABORATORIES LIMITED,

Per:

Swastika, Ont., POK 1T0, July 26, 1976¹⁹

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 48234

We have analyzed twenty-three samples of split core

Received July 23, 1976 and submitted by Mayfair Mines Limited.

Attention: L. J. Cunningham, Esq. with the following results:

Sample No.	Gold Ozs/ton
40155	Nil
40156	Nil
40157	Nil
40158	0.005
40159	0.002
40160	0.002
40161	0.11
40162	0.04
40163	0.125
40164	0.005
40165	Nil
40166	Nil
40167	Nil
40168	Nil
40169	Nil
40170	Nil
40171	Nil
40172	Nil
40393	Nil
40394	Nil
40395	Nil
40396	Nil
40397	Nil

SWASTIKA LABORATORIES LIMITED,

per: 

Swastika, Ont., POK 1T0, July 23, 1976

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. 46233

We have assayed twenty-seven samples of split core

Received July 22, 1976 and submitted by Mayfair Mines Limited.

with the following results:

Attention: L. J. Cunningham, Esq.

Sample No.	Gold Oms/ton
40368	0.002
40369	Nil
40370	0.002
40371	0.002
40372	0.005
40373	0.055
40374	0.005
40375	0.005
40376	0.005
40377	Nil
40378	Nil
40379	Nil
40380	Nil
40381	Nil
40382	Nil
40383	Nil
40384	Nil
40385	Nil
40386	Nil
40387	0.07
40388	0.085
40389	0.04
40390	Nil
40391	Nil
40392	Nil
40398	Nil
40399	Nil

SWASTIKA LABORATORIES LIMITED,

per: *[Signature]*



Swastika, Ont., POK 1st0, ~~Aug 3, 1976~~ 19.....

SWASTIKA LABORATORIES LIMITED

Certificate of Analysis

No. ~~46246~~

We have analysed twenty-eight samples of sludge

Received JULY 31, 1976 and submitted by Mayfair Mines Limited.

ANALYSED BY: L. J. CUMYNGHAM, Esq. with the following results:

Sample No.	Gold Ozs/ton
Hole #3 228-238	N11
238-244	N11
244-254	N11
254-264	N11
264-274	N11
274-284	N11
284-294	N11
294-304	N11
304-314	N11
314-316	N11
316-326	N11
326-336	N11
336-341	N11
349-357	N11
430-439	N11
439-449	N11
449-459	N11
459-468	N11
468-478	0.002
Hole #34 357-365	N11
365-375	N11
372-385	0.002
385-395	N11
395-405	N11
405-415	N11
415-425	N11
Hole #3 254-261	N11
341-349	N11

SWASTIKA LABORATORIES LIMITED,

per: *[Signature]*

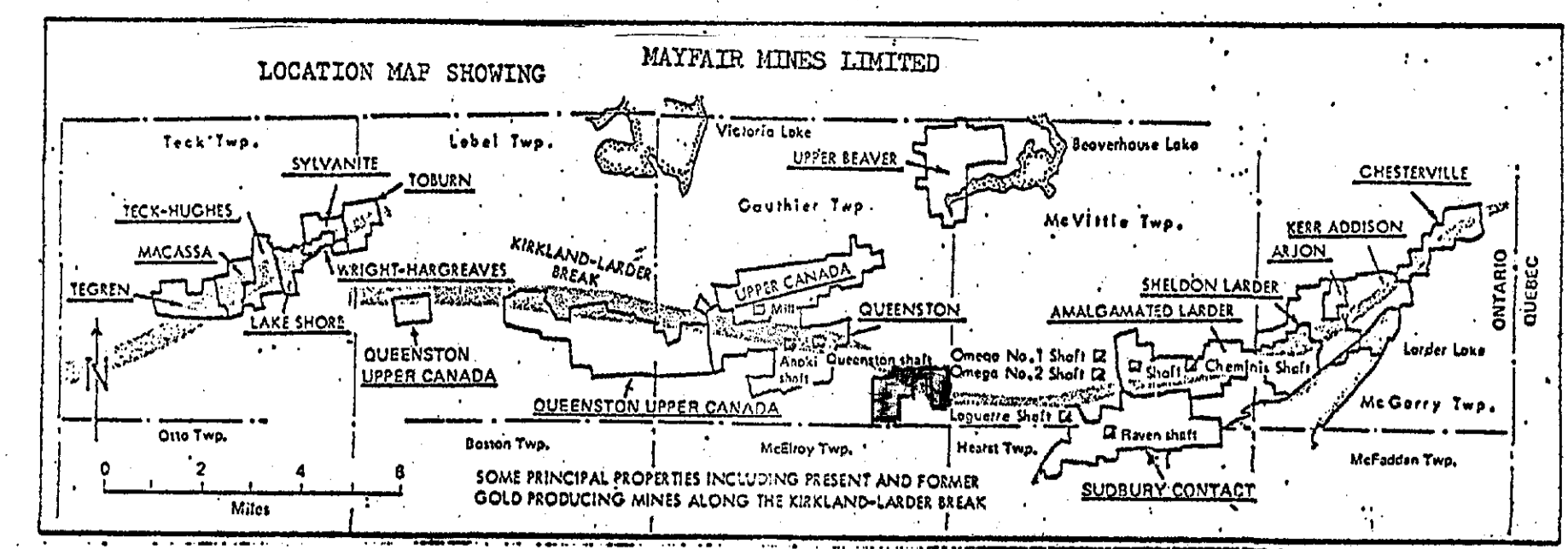
LEGEND

ALBANY

- SYENITE
- SYENITE PORPHYRY

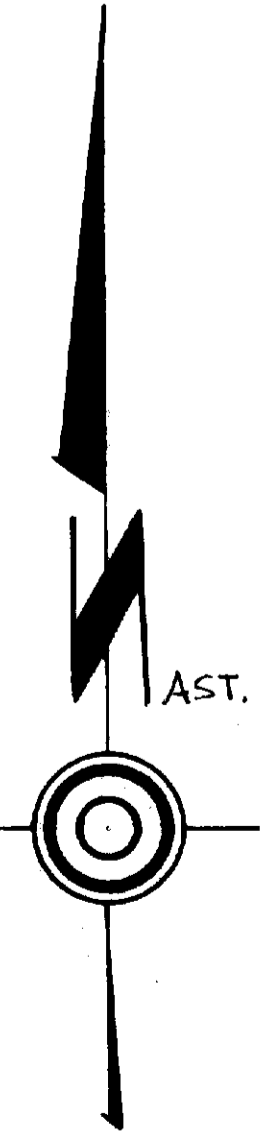
TEMISKAMING

- CARBONATED ROCKS
- PARTIALLY CARBONATED
- BASIC VOLCANICS - ANDERITIC LAVAS
- QUERT - MARCH SULPHIDE
- SABBETITE IRON FORMATION
- ULTRA-MAFIC VOLCANICS
- TRONDHJEMITE
- TRONDHJEMITE AGGLOMERATE
- TRONDHJEMITE TUFF-SEDGDS
- FINE GRAINED META SEDIMENTS
- GRAYWACKE - ARSILLITE



SYMBOLS

	GULLY
	ROAD
	ELEVATED AREA
	OUTCROP
	TRENCH
	SHAFT
	PIT
	LOW-MARSH-ALDER
	DRILL HOLE
	GEOLOGICAL CONTACT APPROX.
	VERTICAL SCHISTOSITY
	INCLINED SCHISTOSITY



showing
A MAGNETOMETER SURVEY
OVER
CLAIMS L428868-71 and L373804
AND
DRILL HOLES M76-1, 2, 3, 3A

MAYFAIR MINES LIMITED
GAUTHIER TOWNSHIP
DISTRICT OF TEMISKAMING

SCALE: 1" = 200'

MARCH 1975
KIRKLAND LAKE, ONT.
[Signature]
L. J. GUTHRIE
revised March 1977

TOWNSHIP OF GAUTHIER
TOWNSHIP OF McELROY

