QUINTON MINING INC.

VIGRASS LAKE PROJECT

REPORT ON THE

1994 DIAMOND DRILLING PROGRAMME

OTTO TOWNSHIP, ONTARIO

LARDER LAKE MINING DIVISION

OMIP FILE OM94-037

COPY

Toronto, Ontario
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W. Benham

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[redacted] metres were drilled to test the 88-8 zone at a vertical depth of 400 metres. Previous drilling had intersected weakly anomalous gold mineralization over appreciable widths in carbonated and silicified pyritic basalts and mafic intrusives at the contact between basaltic and komatiitic volcanics. The mineralization, alteration and host rocks were considered to be similar to the geological setting of the Kerr Addison deposit at Virginiatown and the Lightning Zone deposit in Holloway Township.

Although the 1994 drilling intersected pyritic quartz breccia veins associated with the 88-8 carbonate zone, no economic gold mineralization was encountered. The intensity of the carbonate and silicic alteration was found to decrease significantly at depth. No further drilling is recommended for the 88-8 zone.

A weakly mineralized zone, which is located about 200 metres to the south of the 88-8 zone, was intersected in all three of the 1994 drill holes. The best intersection from this southern zone was in hole VG94-03 which intersected 288 ppb Au over 6.30 metres including 616 ppb Au over 1.70 metres in pyritic, potassic and carbonate altered, fractured, finely bedded graywackes and lean oxide iron formations with grey brecciated pyritic quartz veins. A 500 metre drill hole is recommended to test this southern zone at a vertical depth of 400 metres.

Kirkland Lake gold camp in northeastern Ontario. This project was approved as a Designated Program under O.M.I.P., the Ontario Mineral Incentive Program, File Number OM94-037.

The Vigrass Lake Property is divided into two parts lying north and south of the Larder Lake Fault Zone which closely follows Highway 66 across the property near the east-west common boundary between Teck and Otto Townships.

On the South Vigrass Lake claims, previous exploration work, which consisted of mapping and geophysical surveys, overburden stripping and diamond drilling, had discovered the 88-8 zone, a pyritic carbonate zone with anomalous gold mineralization over appreciable widths. This gold prospect is considered to have many geological characteristics similar to the Kerr Addison gold deposit, which is located about 36 km to the east along strike of the Larder Lake Fault Zone at Virginiatown, Ontario. Three 600 metre drill holes were planned to test the 88-8 zone at the 400 metre level.

Three drill holes were planned for the North Vigrass Lake claims to test some interpreted structures in Timiskaming volcanics and sediments. However, due to reports of a gold discovery by Sudbury Contact Ltd. in Gauthier Township, funds for the planned North Vigrass Lake drilling were re-allocated to the Upper Beaver - Lac/McVittie Joint Venture properties which are located along strike to the east of Sudbury Contact's discovery.

A total of 1840.37 metres was drilled on the South Vigrass Lake claims by Heath & Sherwood Drilling (1986) Inc. of Kirkland Lake, Ontario and 707 sawn core samples were assay for gold by Swastika Laboratories at Swastika, Ontario. A total of 34 reject samples were check assayed by Chemex Labs of Vancouver. W. Benham, W. R. Benham Geological Services, managed the project, logged and sampled the drill core. The core was sawn by L. M. Dyment at Jomi Minerals & Expediting Ltd. drill core logging facilities in Marquis Township. The core is stored at Queenston's Upper Canada mine site in Gauthier Township. The drill plans and sections were drafted by E. Benham. Head office project supervision was provided by C.E. Page, CEP Consulting and Vice President, Queenston Mining Inc.

kilometre to the west and southwest of the Village of Swastika, Ontario. NTS: 42 A/1; 80° 08'W Longitude, 48° 06'N Latitude. Excellent access to the South Vigrass Lake claims is provided by Highway 66 and the Otto Lake Road; while access to the North Vigrass Lake claims is by the highway, the Blanche River and a bush trail leading north from the Village of Swastika (Figures 1 and 2).

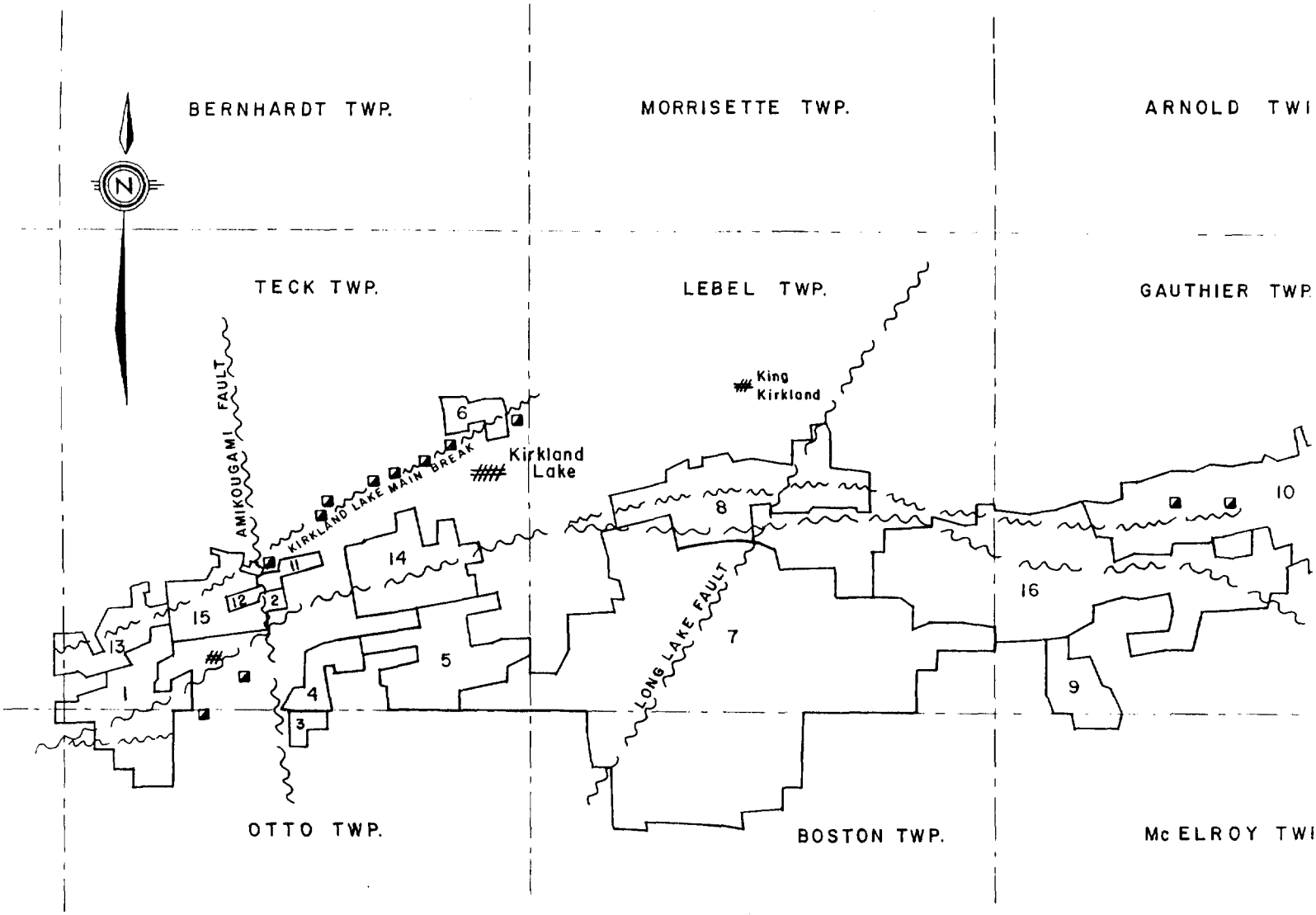
LIST of CLAIMS

North Vigrass Lake Claims, Teck Twp. G-3719, *Grenfell Twp. M-351

HR 544	Patent	891860	Unpatented
1199*	Patent	892085	Unpatented
8664	Patent	892088	Unpatented
9880	Patent	892089	Unpatented
476845	Lease	894181	Unpatented
476846	Lease	927914	Unpatented
476847	Lease	927921	Unpatented
891856	Unpatented	927927	Unpatented

South Vigrass Lake Claims, Otto Twp. G-379, *Eby Twp. M-345

16423*	Patent	842493	Unpatented
16424	Patent	842494	Unpatented
16425	Patent	842495	Unpatented
544544	Lease	842660	Unpatented
544545	Lease	842767	Unpatented
544546	Lease	842782	Unpatented
544549	Lease	843171	Unpatented
737143	Unpatented	843400	Unpatented
737144	Unpatented		



QUEENSTON (100%)

- 1 VIGRASS LAKE
- 2 TROUT CREEK
- 3 SKI TRAIL
- 4 TECK B
- 5 TECK A
- 6 SYLVANITE
- 7 LEBEL STOCK
- 8 PAWNEE
- 9 MOUSSEAU
- 10 UPPER CANADA

QUEENSTON JOINT VENTURES

QMI / LAC

- 11 GRACIE EAST
- 12 ST. JOSEPH
- 13 GRACIE WEST

QMI / CYPRUS

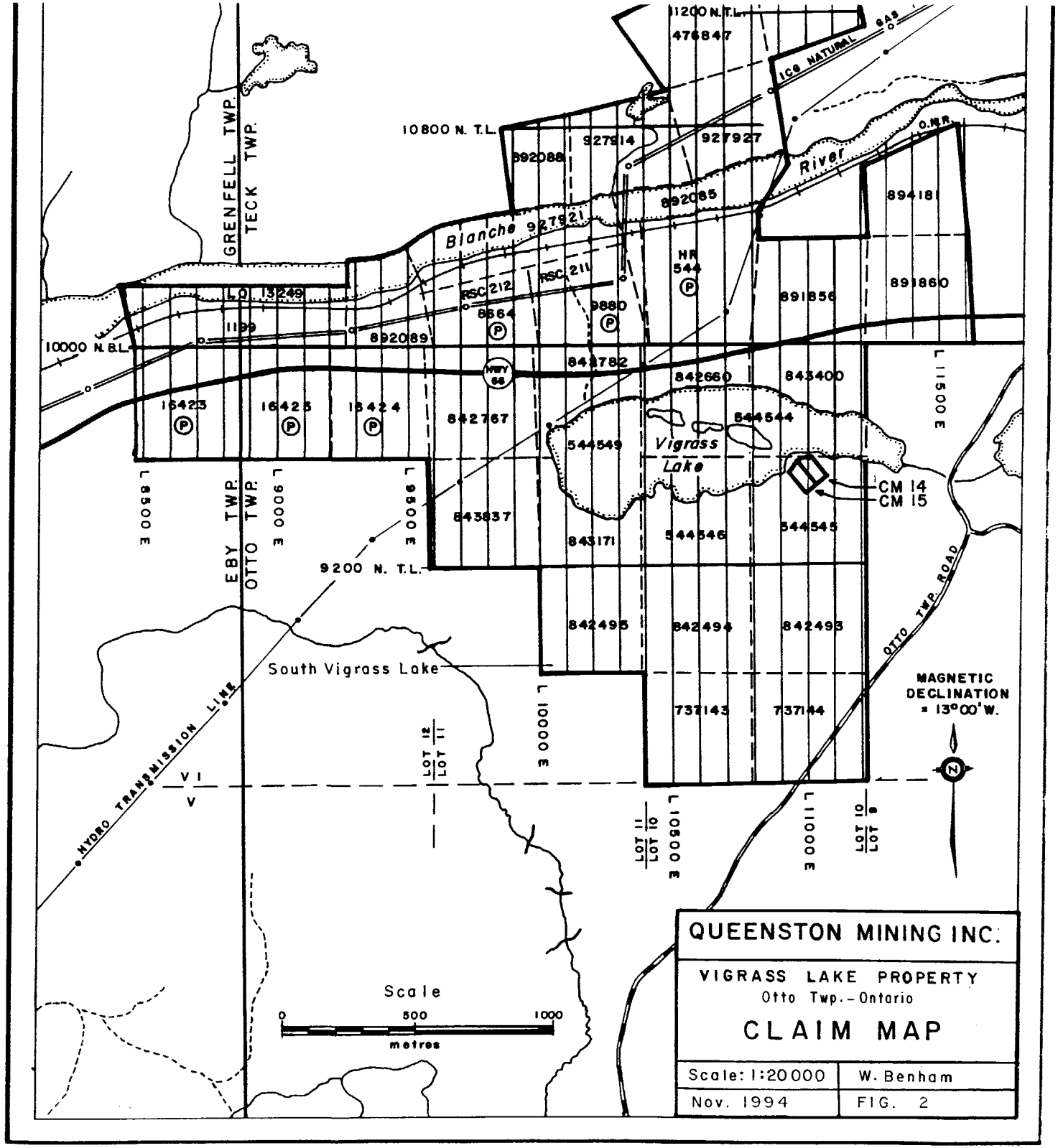
- 14 AMALGAMATED KIRKLAND
- 15 KIRKLAND LAKE WEST

QMI / INCO

- 16 GAUTHIER-LEBEL

QMI / ROYAL OAK

- 17 UPPER BEAVER



QUEENSTON MINING INC.

VIGRASS LAKE PROPERTY

Otto Twp.- Ontario

CLAIM MAP

Scale: 1:20000	W. Benham
Nov. 1994	FIG. 2

along the north shore of Otto Lake and to the immediate east of the present Vigrass Lake property. Details of the exploration work carried out on the property prior to 1980 are poorly recorded. However, numerous very old pits, adits and trenches have been found on the Vigrass Lake property. The area to the north of Vigrass Lake in Teck Township was mapped by Thomson (1950). Otto and Eby Townships were mapped by Lovell (1972).

The following is a list of the recorded previous work on the Vigrass Lake property:

1. In 1912, a 60 metre long adit on present claim L 891860 was driven on the Vigrass Lake Fault Zone by Homestead Mining Company.

2. In 1929, a 15 metre deep shaft was sunk on claim 16425 by Matabanick Kirkland Gold Mines.

3. Three short holes were drilled to test the syenite which is exposed in the Homestead adit as well as other small syenite bodies along and south of the Larder Lake Fault Zone (results and date unknown).

4. In 1966, Kerr Addison drilled one hole to test a massive pyrite showing along Highway 66 on claim 9880.

5. In 1984, Jomi Minerals carried out hand stripping, prospecting, magnetic and VLF-EM surveys on the Kidston claims located south of Vigrass Lake.

6. In 1985, Rio Algom Exploration Inc. drilled a 162 metre hole from the island in Vigrass Lake.

7. In 1986, HSK Minerals Ltd. (now Queenston Gold Mines Inc.) stripped and sampled an altered and mineralized area known as the "Highway Zone", located immediately south of Highway 66 and north of Vigrass Lake on claim 843400. Surface channel samples from the zone assayed up to 12.3 g/t Au over 1.5 metres.

an area of carbonate altered volcanics south of Vigrass Lake. Grab samples from a surface showing are reported to have assayed up to 5185 ppb Au.

10. During 1987-88, HSK Minerals Ltd. drilled eleven diamond drill holes, 1223 metres, to test the "Highway Zone" and some geophysical anomalies and alteration zones located to the south of Vigrass Lake. Hole VI-87-2, which tested the "Highway Zone", intersected 348 ppb Au over 6.0 m. Hole VI-88-8, which tested the surface showing associated with the carbonate zone south of Vigrass Lake, intersected a mineralized altered pyritic carbonate zone which averaged 125 ppb Au 56 metres.

11. In 1988, A. Workman mapped the area to the south of Vigrass Lake and relogged the 1987-88 HSK drill core.

12. During 1989-90, Battle Mountain (Canada) Inc. cut a new metric grid over the entire property; geologically mapped this grid; carried out overburden stripping and channel sampling on the South Vigrass Lake claims; completed a total field and vertical gradient magnetic survey over the entire grid and a multi-frequency, horizontal loop MaxMin EM survey over that part of the grid which cover the Larder Lake Group rocks. Channel sampling on the Highway Zone returned anomalous samples of 4.37 g/t Au over 0.3 metres and 1.90 g/t Au over 0.3 metres. Grab samples of a semi-massive sulphide showing which is located along the highway returned assays of 290 to 1440 ppb Au. Overburden stripping around HSK's hole 88-8 exposed highly altered, carbonated, silicified and pyritic mafic tuffs, lamprophyre and feldspar porphyry dykes and graphitic sediments with semi-massive pyrite. Channel sampling returned anomalous assays of 100 to 680 ppb Au over widths of 1.0 to 7.0 metres. Grab samples of the semi-massive sulphides returned assays up to 223 ppb Au, 1.4 ppm Ag, 528 ppm Cu and 518 ppm Zn.

14. In 1991, Battle Mountain (Canada) Inc. drilled two holes, 624.2 metres, to follow up the anomalous gold mineralization intersected by HSK Minerals Ltd. in hole 88-8 and to test a green carbonate zone with erratic low grade gold mineralization which is located along the southern shore of Vigrass Lake. Hole 91-03, which was located 120 metres to the east of hole 88-8, intersected geochemically anomalous gold mineralization in four zones which averaged from 0.14 to 0.36 g/t Au over widths of 7.1 to 14.0 metres, in pyritic, silicified, brecciated basalts and mafic intrusives.

5.0 REGIONAL GEOLOGY

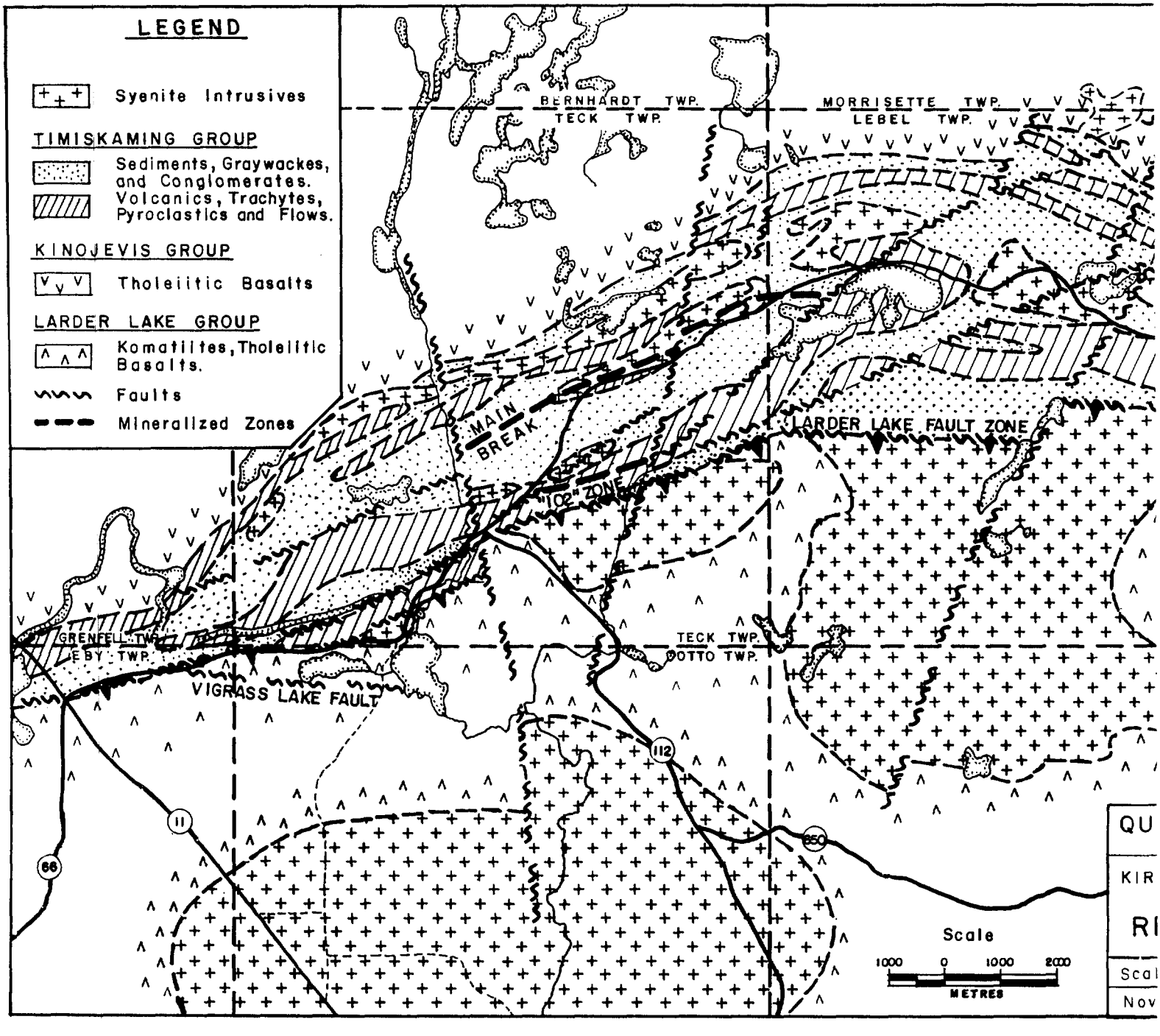
The Kirkland Lake gold camp is located in the Abitibi greenstone belt of the Superior Province of the Archean Canadian Shield. It lies to the south of the major east-west trending Blake River synclinorium, the northern and southern limbs which are defined by the Destor-Porcupine and Larder Lake-Cadillac Fault Zones. Most of the historical gold production in the Abitibi greenstone belt is spatially associated with these two regional structures. The southern limb of the Blake River synclinorium in the Kirkland Lake area consists of tholeiitic volcanics of the Kinojevis Group. These are unconformably overlain by the trachytic volcanic and coarse clastic sedimentary rocks of the Timiskaming Group and their associated syenitic intrusives. The southern boundary of the Timiskaming Group is marked by the Larder Lake Fault Zone. The assemblage to the south of this fault zone consists of mafic to ultramafic volcanics and interflow sedimentary rocks of the Larder Lake Group which is intruded by the Lebel, Murdoch and Otto Lake syenitic plutons in the Kirkland Lake area (Figure 3).

The Kirkland Lake gold camp has produced in excess of twenty-three million ounces of gold from pyritic quartz-veined ore shoots in a westerly plunging deposit associated with the Kirkland Lake Main Break and historically known as the Mile of Gold. There were six producing mines at one time along this deposit of which the one remaining active producer is the Macassa Mine at the west end of the deposit. The deposit strikes 065°-70° Az, dips 65° to 80° to the

enclosing trachytic volcanic rocks. The deposit has been dismembered by a complex series of younger, steeply dipping reverse faults, of which the largest is the Kirkland Lake Main Break. Many of the larger ore shoots are hosted by or are terminated by one or more of the branches of this fault system.

In 1991, Battle Mountain Lake (Canada) Inc. made a significant gold discovery (Hole AK91-31, 9.70 g/t Au over 5.15 m) on the Amalgamated Kirkland property which was held under an option agreement with Queenston Mining Inc. This new gold zone consists of pyritic quartz breccia veins associated a with brittle deformation zone, which was originally called the "102/103" zone but subsequently renamed the "CBM Break". This break is located about two kilometres to the south and subparallel to the Kirkland Lake Main Break. After Battle Mountain terminated its Canadian operations, Cyprus Canada Inc. optioned the Amalgamated Kirkland property and continued exploration work on the property. As a result of their 1993 drill programme, a gold zone with the approximate dimensions of 500 m x 125 m x 5.1 m grading 7.4 g/t Au has been indicated. The best intersection reported was hole AK-52 which intersected 10.65 g/t Au over a true width of 12.70 m. Cyprus is continuing their exploration efforts to expand this gold zone, now named the "Cyprus Zone", and to discover additional zones along strike and at depth.

The Kerr Addison mine, which is located 36 km to the east in the Larder Lake district, has produced in excess of ten million ounces of gold and it is still in production. This ore deposit is hosted by altered and strongly sheared mafic to ultramafic volcanics and interflow graphitic sediments of the Larder Lake Group and it is associated with altered plugs and dykes, known locally as "albitite" of unknown original composition. It contains two distinct ore types: "green carbonate ore", as quartz veins in altered ultramafic volcanics rocks and "flow ore" as pyritic, altered deformed variolitic and pillowed basalts with only minor quartz veining. Both ore types are spatially associated with the Kerr Fault, a splay off the Larder Lake Fault Zone.


LEGEND
Syenite Intrusives
TIMISKAMING GROUP
Sediments, Graywackes, and Conglomerates.
Volcanics, Trachytes, Pyroclastics and Flows.
KINOJEVIS GROUP
Tholeiitic Basalts
LARDER LAKE GROUP
Komatiites, Tholeiitic Basalts.
Faults
Mineralized Zones
BERNHARDT TWP.
TECK TWP.
MORRISETTE TWP.
LEBEL TWP.
MAIN BREAK
"102" ZONE
LARDER LAKE FAULT ZONE
GRENFELL TWP.
EBY TWP.
TECK TWP.
POTTO TWP.
VIGRASS LAKE FAULT
11
66
112
850
Scale
1000 0 1000 2000
METRES

two groups.

The volcanic rocks of the Larder Lake Group on the South Vigrass Lake claims consist of basaltic and komatiitic flows with interbedded graphitic, pyritic sedimentary rocks (Figure 4). The basalts are massive to pillowed and locally variolitic. The komatiites are serpentinized and carbonated, massive to polysutured and spinifex textured.

The interflow sediments consist of finely bedded graphitic argillites, siltstones, graywackes and oxide iron formations. The carbonaceous argillites locally contain semi-massive pyrite lenses and 1 to 2 cm pyrite nodules.

The volcanic and sedimentary rocks are intruded by diorite, feldspar porphyritic syenite and lamprophyre dykes. Strongly magnetic, 1 to 5 metre wide, mafic "diatreme" dykes and sills have been found south of Vigrass Lake. These intrusives consist of rounded xenoliths of ultramafic to granitic composition in a fine to medium grained biotite-hornblende-pyroxene matrix. These "boulder dykes" have been included with the lamprophyre dykes on Figure 4.

The volcanics strike 065° to 110° Az and dip steeply to the south at 45° to 90°. A south-facing sequence of mixed pillowed variolitic basalts and komatiites, massive basalts and komatiites has been mapped. Top determinations are defined by south facing pillows and spinifex textures.

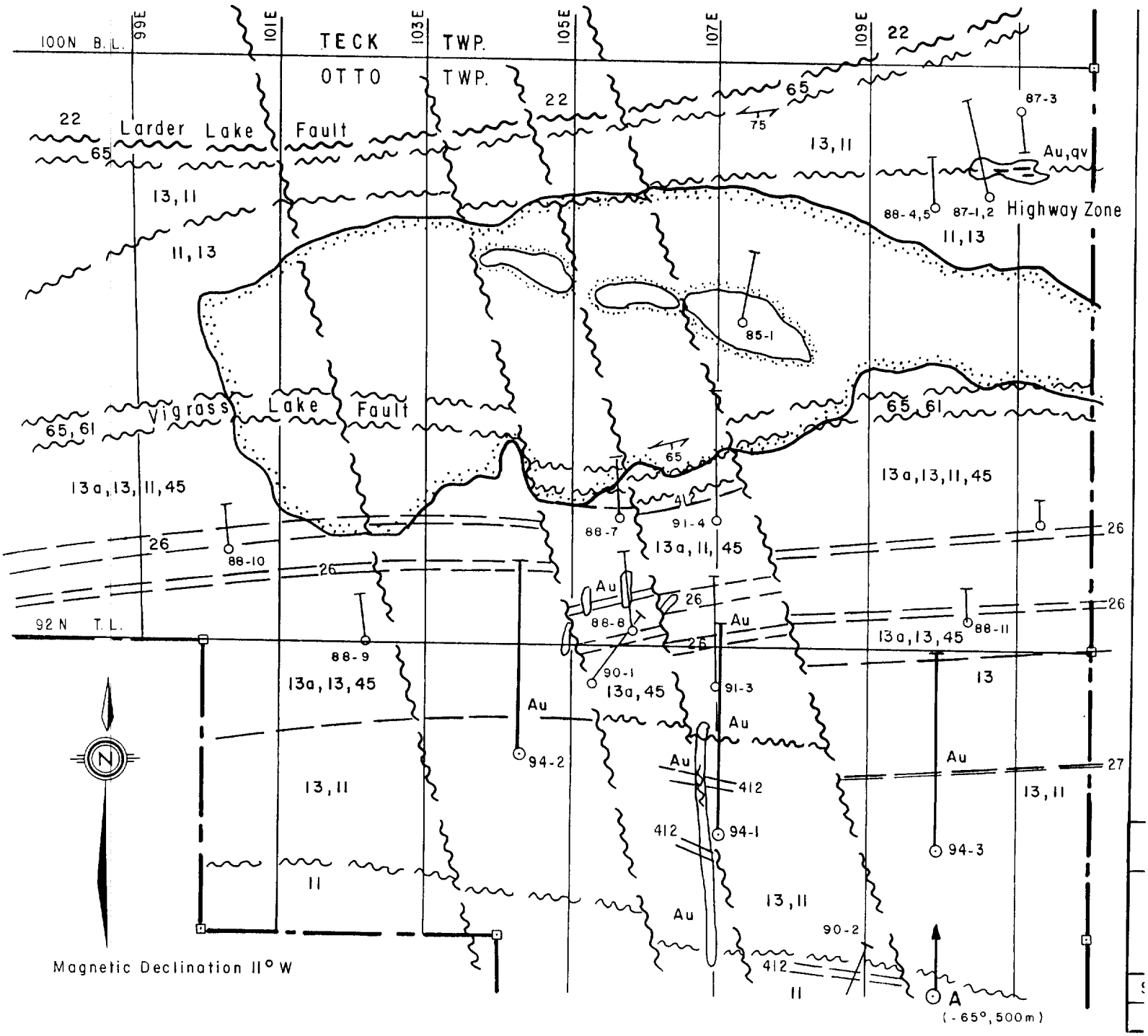
The Larder Lake Fault Zone, which consists of talc + chlorite + carbonate schists, marks the contact between the Timiskaming Group and the Larder Lake Group. Up to a 1000 metres to the south of the Larder Lake Fault, there are a series of subparallel faults which consist of strongly altered carbonated and silicified shear zones with finely disseminated sulphides and stockworks of quartz veins. These altered shear zones mark the contacts between the predominantly komatiitic and basaltic assemblages. A complex zone of shearing and alteration is located south of and along the south shore of Vigrass Lake. This structure, known as the Vigrass Lake Fault, is part of a regional fault zone which has been traced to the east on Queenston's Teck A and B and Lebel Stock properties.

mixed variolitic basalt and komatiite unit. A distinctive magnetic sill with rounded xenoliths marks the southern margin of the zone. It consists of green and brown carbonate alteration with quartz veins and finely disseminated pyrite. The zone is intruded by pyritic altered ankeritic felsic dykes. Grab samples from this zone have assayed up to 347 ppb Au. It was tested by hole 91-04 where the zone was only weakly altered and mineralized.

The southern zone is located within the southern half of the altered mixed basalt and komatiite unit on either side of the graphitic sediments. The volcanics rocks are strongly carbonated, silicified and pyritic. They are intruded by ankeritic, pyritic feldspar porphyritic syenite and diorite dykes. The graphitic sediments contain semi-massive pyrite and disseminated sphalerite.

Overburden stripping by HSK in 1988 and BMCI in 1989 was carried out to expose the southern zone (105 E to 107 E and 92 N to 93 N). Channel sampling returned anomalous gold assays of 100 to 680 ppb Au over widths of 1.0 to 7.5 metres. A grab sample near the collar of drill hole 88-8 assayed 5185 ppb Au. Grab samples of the semi-massive sulphides assayed up to 223 ppb Au, 1.4 ppm Ag, 528 ppm Cu and 518 ppm Zn.

Hole 88-8, drilled by HSK in 1988, intersected pyritic carbonated volcanics and intrusives which assayed 125 ppb Au over a core length of 56.4 metres. Hole 91-03, which was drilled 120 metres to the east of hole 88-8 by Battle Mountain (Canada) Inc. in 1991, intersected silicified, brecciated, carbonated basalts and dioritic intrusives. Geochemically anomalous gold assays over significant widths included 260 ppb Au over 24.5 metres including 1.30 g/t Au over 0.90 m; 220 ppb Au over 12.6 metres and 140 ppb Au over 8.6 metres. The mineralized zones are interpreted to dip 70° to 75° to the south.


100N B.L.
99E
101E
TECK TWP.
OTTO TWP.
103E
105E
107E
109E
22
65
75
87-3
Au,qv
88-4,5
87-1,2
Highway Zone
13,11
11,13
Larder Lake Fault
85-1
Vigrass Lake Fault
65,61
13a,13,11,45
88-7
91-4
13a,11,45
26
88-10
92 N T.L.
Au
88-8
88-11
88-9
13a,13,45
90-1
13a,45
91-3
94-2
412
94-1
94-3
90-2
A
(-65°,500m)
N
Magnetic Declination 11° W

samples were assayed for gold by Swastika Laboratories using one assay ton fusions. Check assays were done on a total of 34 reject samples by Chemex Labs of Vancouver.

The results of the 1994 drilling are described in drill logs VG94-01, VG94-02 and VG94-03 (Appendix I) and shown in cross section on Drawings DC-01 to DC-03 at a scale of 1:2,500. The drill hole locations are shown on drill plan, Figure 5. Assay certificates are located in Appendix II and all sampled intervals and assay results are recorded in the drill logs. Previous drill intersections and the 1994 drill results for the 88-8 zone are shown on a vertical longitudinal at a scale of 1:2,500, Figure 6.

Hole VG94-01 (107+05 E) intersected a sheared and finely laminated, pyritic quartz carbonate zone which assayed 248 ppb Au over 2.55 metres from 180.95 to 183.50 metres. This zone, which is exposed at the north end of the long overburden trench along line 107 E at 90+75 N about 200 metres to the south of the 88-8 zone, is within a broad carbonate altered zone of brecciated basalts from 172.40 to 195.40 metres. Channel samples from this pyritic shear zone in the trench averaged 326 ppb Au over 1.70 metres. A brecciated, silicified, brown carbonate altered mafic intrusive with 5-15% pyrite was intersected from 335.75 to 342.70 metres. This 6.95 metre wide zone which assayed only traces of gold, is interpreted to be the 88-8 zone. Hole VG94-01 intersected a total of 150 metres of graphitic sediments versus zero and 50 metres of sediments in shallower holes 88-8 and 91-03 respectively. Hole VG94-01 possibly was drilled underneath the plunge of the altered mafic intrusive which is the host rock for the 88-8 zone. The basalts and mafic intrusives which were intersected in hole VG94-01 are not as strongly altered as in the shallow drill holes.

Hole VG94-02 (104+30 E) intersected a weakly sheared pyritic carbonate zone, from 68.40 to 70.00 metres which assayed 200 ppb Au over 1.60 metres. This zone possibly is the western strike extension of the southern weakly anomalous gold zone which was intersected in hole VG94-01. A quartz carbonate zone with 5-8% pyrite was intersected from 298.45 to 302.90 metres. This 4.45 metre wide zone which assayed only trace gold is interpreted to be the western strike extension of the 88-8 alteration zone. A 1.20 metre wide pyritic quartz breccia vein was intersected from 480.65

carbonate altered, fractured, finely bedded greywacke and chert iron formation with 5-20% grey brecciated pyritic quartz veins from 142.00 to 148.30 metres. This 6.30 metre wide zone, which averaged 288 ppb Au including 616 ppb Au over 1.70 metres, possibly is the eastern continuation of the southern zone which was intersected in hole VG94-01. At 160.25 to 161.35 metres, a gabbro with pyritic carbonated sediment and iron formation xenoliths assayed 359 ppb Au over 1.80 metres. Therefore these two weakly anomalous zones may correlate (?) with a zone of altered gabbro with quartz veins from 111.50 to 114.80 metres with a best assay of 140 ppb Au over 0.35 metres in hole VG94-01. Brecciated, weakly to moderately altered basalts and mafic intrusives, which are interpreted to be the eastern strike extension of the 88-8 altered zone, were intersected from 358.50 to 438.40 metres. A chloritic breccia with 1% pyrite in pillow selvages assayed 165 ppb Au over 1.35 metres from 375.60 to 376.95 metres. A pyritic silicified zone from 451.50 to 452.55 metres at the southern contact of a weakly to moderately altered green and brown carbonate zone assayed trace gold. Hole VG94-03 indicates that the southern contact of the komatiite volcanics dips 45° south versus 65°-75° south in holes VG94-01 and VG94-02 and 45°-55° south in holes 91-03 and 91-04.

occurs possibly plunges to the east and may have some control on the location of the gold mineralization in the 88-8 zone, although the altered mafic basalts and intrusives appear to plunge to the west. No further drilling is recommended for the 88-8 zone.

The 1994 drilling intersected a weakly mineralized gold zone in sheared basalts(?) and interflow sediments at relatively shallow depths and situated about 200 metres to the south of the 88-8 zone. This southern zone was intersected in all three of the 1994 drill holes over a possible strike length of 570 metres. This zone was strongest in hole VG94-03 which intersected 616 ppb Au over 1.70 metres. A 500 metre hole is recommended to test this southern mineralized horizon at a vertical depth of 400 metres on section 110+00 E 300 metres down dip of the VG94-03 intersection. The estimated cost of this drill hole would be $40,000.

W. Benham

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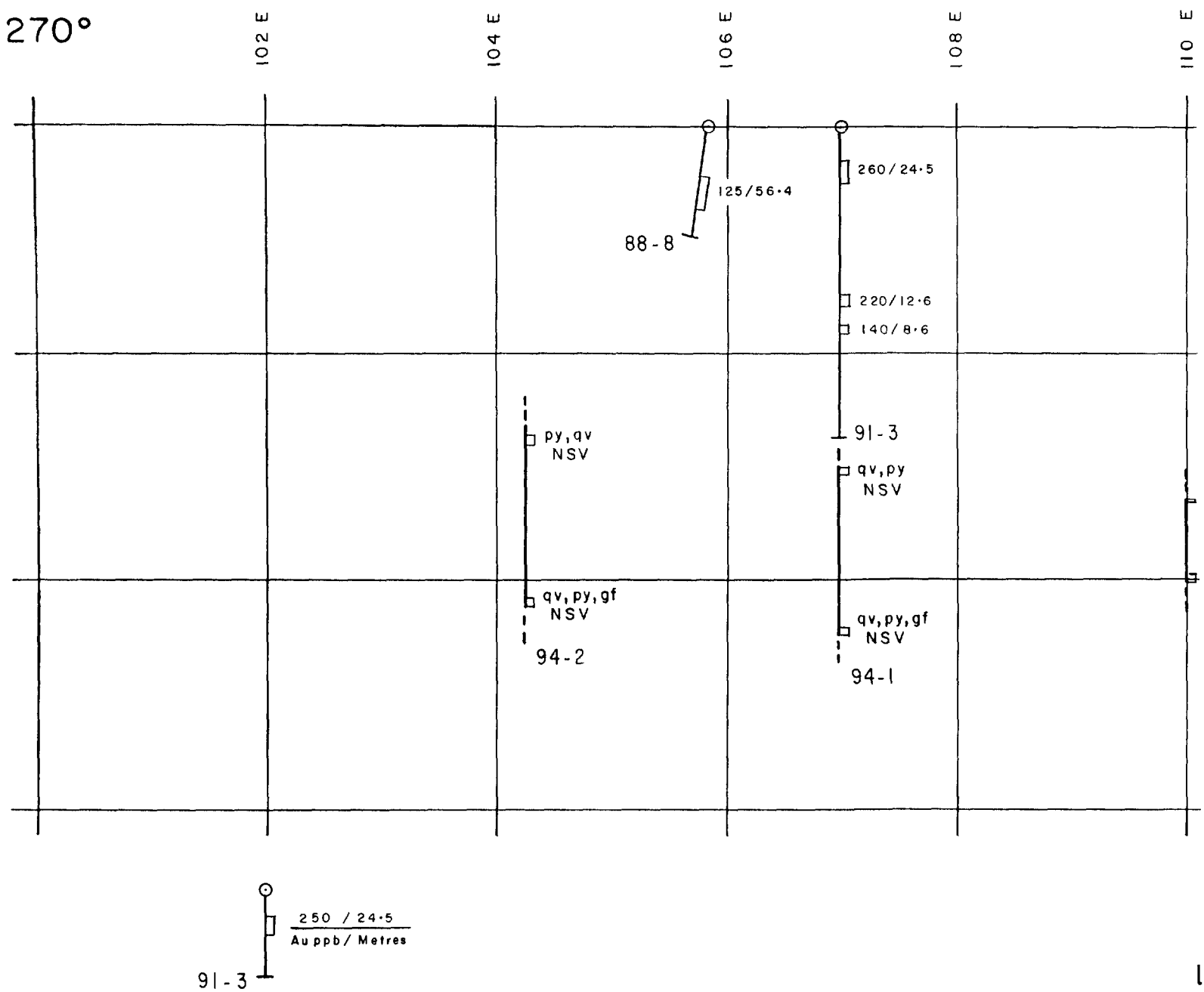
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Roth, J., Report on Magnetic and HEM Surveys (Val d'Or Geophysique Ltee.) Vigrass Lake Property, Ontario for Battle Mountain(Canada) Inc., Stratagex Ltd., 1990.

Thomson, J.E., Geology of Teck Township and Kenogami Lake Area, Kirkland Lake Gold Belt, O. D. M., Annual Report 1948, Vol. 57, Part 5.

Workman, A., Report on Exploration Activities on behalf of HSK Minerals Ltd. for the Vigrass, Teck A and B Properties, Ontario for HSK Minerals Ltd., 1988.


270°
102 E
104 E
106 E
108 E
110 E
125/56·4
88-8
260/24·5
220/12·6
140/8·6
91-3
py,qv
NSV
qv,py
NSV
qv,py,gf
NSV
94-2
qv,py,gf
NSV
94-1
250 / 24·5
Au ppb / Metres
91-3
0
100
200
Metres

APPENDIX I

DIAMOND DRILL LOGS

QUEENSTON MINING INC.
SUMMARY DRILL LOG

UG94-01

PROPERTY: VIGRASS LAKE

TOWNSHIP: Otto	DATE LOGGED : September 18-27, 1994	EASTING: 107+05 m	Depth	M
CLAIM No.: 842494, 544546	LOGGED BY : W. Benham	NORTHING: 89+32 m	Collar	Cc
STARTED: Sept. 16, 1994	DRILLED BY : Heath & Sherwood	LENGTH: 638.86 m	61 m	
COMPLETED: Sept. 26, 1994	CORE LOCATION: Upper Canada	CORE SIZE: NQ	122 m	
SIGNED BY: W. Benham		(Note: Metric Grid)	183 m	
			244 m.	
			305 m	
PURPOSE: To test 88-8 gold-carbonate zone at the 400 metre level below holes 88-8 and 91-03.			366, 427 m	
			488 m	
COMMENTS: Intensity of alteration in the 88-8 zone decreases at depth, weakly anomalous gold mineralization			549 m	
was intersected 200 m to the south of the 88-8 zone, from 181.45 to 183.15 m, 0.326 g/t Au / 1.70 m			610 m	

METRES		SUMMARY LOG			AS
From	To	Lithology	Mineralization	From	
0.00	3.95	Overburden			
3.95	69.50	Pillowed Basalt			
69.50	74.75	Feldspar Porphyry			
74.75	111.50	Pillowed Basalt / Altered Basalt			
111.50	114.80	Altered Gabbro with Quartz Veins	15% pyrite, 5% quartz	112.35	1
114.80	127.40	Gabbro			
127.40	140.00	Basalt			
140.00	172.40	Gabbroic Basalt / Basalt			
172.40	181.45	Altered Basalt / Breccia Zone			
181.45	183.45	Pyritic Quartz Breccia Zone	8-10% pyrite, 10-15% quartz veins	180.95	1
183.45	195.40	Altered Basalt / Breccia Zone		including	
195.40	252.70	Pillowed Basalt / Altered Basalt		181.45	1
252.70	280.80	Altered Brecciated Basalt			
280.80	284.20	Graphitic Breccia			
284.20	287.10	Altered Basalt / Graywacke			
287.10	323.80	Graphitic Sediments			
323.80	327.00	Lamprophyre Dyke			

QUEENSTON MINING INC.
SUMMARY DRILL LOG

METRES		SUMMARY LOG			AS
From	To	Lithology	Mineralization	From	
327.00	335.75	Graphitic Sediments			
335.75	342.75	Altered Intrusive			
342.75	365.55	Graphitic Sediments			
365.55	403.75	Altered Basalt / Mafic Intrusive			
403.75	407.00	Lamprophyre Dyke			
407.00	433.65	Basalt			
433.65	516.94	Graphitic Sediments			
516.94	598.55	Komatiite			
598.55	629.55	Green Carbonate / Altered Komatiite			
629.55	638.86	Komatiite			
	638.86	E. O. H.			

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
0.00	3.95	**OVERBURDEN**					
3.95	69.50	**PILLOWED BASALT**	7140	3.95	4.88	0.93	
		Grey green, fine grained, fractured and brecciated pillowed basalt,	7141	4.88	5.80	0.92	
		calcareous with light brown carbonate altered brecciated sections.	7142	5.80	6.80	1.00	
		3.95 - 7.40	7143	6.80	7.45	0.65	
		<1% pyrite in 1-3 mm wide grey quartz carbonate veinlets @ 25 deg.	7144	7.45	8.00	0.55	
		7.40 - 7.85	7145	8.00	9.00	1.00	
		40% white grey quartz in weakly sheared light brown carbonated basalt,	7146	9.00	10.00	1.00	
		shearing @ 40 deg., 1-2% disseminated pyrite.	7147	10.00	11.00	1.00	
		7.85 - 11.70	7148	11.00	11.70	0.70	
		Brecciated, 60% light grey brown carbonate alteration, 10%, 0.1-1.0 cm	7149	11.70	12.75	1.05	
		wide, white quartz carbonate veins at all angles, 1% pyrite.	7150	12.75	14.00	1.25	
		11.70 - 18.70	7151	14.00	15.00	1.00	
		10%, 0.2-5.0 cm wide, white carbonate veins, trace to 1% pyrite	7152	15.00	15.70	0.70	
		in brown carbonated fractures.	7153	15.70	16.50	0.80	
		18.70 - 34.00	7154	16.50	17.30	0.80	
		Grey green pillowed basalt, 0.4 - 0.6 m pillows with pyritic chloritic	7155	17.30	18.20	0.90	
		chloritic pillow selvages.	7156	18.20	18.80	0.60	
		34.25 - 34.65					
		Weak shear zone @ 50 deg., chloritic, brown carbonate, 20% white	7157	29.20	30.00	0.80	
		carbonate, 10% dark quartz, 1% pyrite.					
		34.65 - 44.80	7158	33.55	34.15	0.60	
		Green, more massive, 2-3% white carbonate veinlets.	7159	34.15	34.70	0.55	
		44.80 - 46.95	7160	34.70	35.30	0.60	
		Brecciated and fractured, light grey green, chloritic carbonated					
		fractures with 1%, 1-5 mm, grey quartz veins, trace to 1% pyrite.	7161	45.40	46.40	1.00	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		46.95 - 57.75	7162	46.40	47.00	0.40	
		Chloritic basalt with 3-5% pyrite, quartz and carbonate veins	7163	47.00	47.75	0.75	
		@ 35-45 deg., e.g. 49.4 - 49.5, 50.5 - 50.7, 54.8 - 55.4 & 56.9 - 57.3.	7164	47.75	48.70	0.95	
		53.60 - 56.70	7165	48.70	49.70	1.00	
		10%, 0.5 mm, white carbonate flecks.	7166	49.70	50.40	0.70	
		57.75 - 61.55	7167	50.40	51.00	0.60	
		Green grey massive fine grained basalt.	7168	51.00	51.90	0.90	
		61.55 - 61.85	7169	51.90	52.90	1.00	
		0.1-1.0 cm green basalt fragments in a light brown grey, hard	7170	52.90	53.80	0.90	
		fine grained matrix, flow top breccia with tops in the up hole direction,	7171	53.80	54.70	0.90	
		sharp upper contact @ 55 deg.	7172	54.70	55.45	0.75	
		61.85 - 69.50	7173	55.45	56.15	0.70	
		Green grey medium grained, massive more mafic to ultramafic.	7174	56.15	56.90	0.75	
			7175	56.90	57.80	0.90	
			7176	57.80	58.75	0.95	
69.50	74.75	FELDSPAR PORPHYRITIC MAFIC DYKE					
		10-20%, 0.5-2 mm, white green euhedral feldspar phenocrysts in a fine	7177	70.50	71.60	1.10	
		grained black mafic matrix. Upper contact is marked by a 15 cm white	7178	71.60	72.25	0.65	
		quartz and chloritic basalt with traces of pyrite from 69.35 - 69.50.	7179	72.25	72.95	0.70	
		Lower contact -- 2.0 cm quartz chlorite vein @ 45 deg., trace pyrite.	7180	72.95	73.80	0.85	
		71.65 - 72.90	7181	73.80	74.80	1.00	
		Sericitic weakly silicified shear @ 45 deg. with 3-5% dark					
		medium grained pyrite, 1-2%, 1-2 mm wide, quartz veinlets.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
74.75	111.50	**PILLOWED BASALT / ALTERED BASALT**					
		74.75 - 80.70	7182	74.80	75.80	1.00	
		Grey olive green to dark green very fine grained silicified, chloritic	7183	75.80	76.70	0.90	
		fractures and swirled pillow selvages, trace to 1% pyrite,	7184	76.70	79.45	0.75	
		1-2% white carbonate veinlets.	7185	79.45	78.30	0.85	
		80.70 - 84.10					
		Grey green fine grained fractured pillowed basalt.					
		84.10 - 85.70					
		Light grey green with a brown tinge, sericitic, carbonated, trace pyrite,	7186	84.10	84.85	0.75	
		weakly sheared @ 60 deg.	7187	84.85	85.70	0.85	
		85.70 - 90.90					
		Grey green to green fractured pillowed basalt, 1% carbonate veinlets.					
		90.90 - 95.90					
		Bleached, fractured, sericitic, carbonated light grey green brecciated	7188	90.00	91.50	0.60	
		basalt with 3-5% grey white quartz carbonate veins, trace to 2% pyrite.	7189	91.50	92.10	0.60	
		91.50 - 93.90	7190	92.10	92.75	0.65	
		Chloritic fractures @ 0-30 deg. with 30% dark grey quartz carbonate	7191	92.75	93.45	0.70	
		veins, 1% pyrite. Upper contact is marked by a chloritic slip @ 45 deg.	7192	93.45	93.90	0.40	
		93.90 - 94.10	7193	93.90	94.50	0.60	
		Grey brown, silicified sericitic zone @ 45 deg., 10-15% grey quartz,	7194	94.50	95.20	0.70	
		5% disseminated pyrite.	7195	95.20	95.90	0.70	
		95.90 - 111.50					
		Dark green to grey green pillowed basalt with 0.5-1.5 m wide grey					
		bleached, carbonated silicified sections.					
		110.80 - 111.50					
		Bleached fractured basalt, trace pyrite, 1% quartz.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
111.50	114.80	**ALTERED GABBRO WITH QUARTZ VEINS**					
		111.50 - 111.75	7196	110.75	111.25	0.50	
		Bleached sericitic weakly silicified, <1% pyrite, upper contact @ 45 deg.	7197	111.25	111.75	0.50	
		111.75 - 112.45	7198	111.75	112.35	0.60	
		White quartz vein @ 40-45 deg. with 15%, 0.1-3.0 cm sericitic wallrock	7199	112.35	112.70	0.35	
		fragments to 112.0 m then decreasing to <1%, 1% 1 mm dark blue	7200	112.70	113.25	0.55	
		chlorite and quartz veinlets, 1-2% pyrite.	7201	113.25	113.80	0.55	
		112.50 - 112.63	7202	113.80	114.80	1.00	
		Brown carbonated silicified gabbro with 10-15% fine grained pyrite,					
		3-5% grey, 0.5-1.0 cmm quartz veinlets.					
		112.63 - 113.10					
		Green medium grained gabbro, 1-2% quartz carbonate veinlets					
		with bleached wallrocks over widths of 0.5 cm, <1% pyrite.					
		113.10 - 113.20					
		Grey quartz vein @ 35-45 deg. with 0.5-1.0 cm sericitic pyritic wallrocks					
		inclusions, 1-2% pyrite.					
		113.20 - 114.80					
		Weakly sheared green gabbro with 8-10%, 0.5-3.0 cm grey quartz and					
		pyrite veinlets @ 35-45 deg., 3-5% pyrite.					
114.80	127.40	**GABBRO**					
		Medium grained massive dark green gabbro with subrounded 2 mm					
		dark green amphibole phenocrysts in a grey green matrix which gives					
		the core a spotted texture, 2-3% white carbonate veinlets.					
		114.45 - 114.63 & 118.50 - 118.65					
		Black feldspar porphyritic mafic dykes @ 30-50 deg.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		127.05 - 127.40					
		Brown grey, sericitic and carbonated.	7203	125.80	126.40	0.60	
		127.30 - 127.40	7204	126.40	127.00	0.60	
		Grey white quartz vein @ 90 deg. with 45% sericitic gabbro,					
		1-2% pyrite.					
127.40	140.00	**BASALT**					
		Dark green to green fractured basalt, 1-2% quartz carbonate veins.	7205	127.00	127.65	0.65	
		127.40 - 127.60	7206	127.65	128.65	1.00	
		2.0 cm white quartz vein @ 160 deg., trace pyrite.	7207	128.65	129.50	0.85	
		128.85 - 128.90	7208	129.50	130.05	0.55	
		Grey white green chlorite, quartz carbonate vein @ 45 deg., 1% pyrite.	7209	130.05	130.80	0.75	
		129.60 - 130.00					
		3-5% medium dark grained pyrite in chloritic veins, 1-2% white grey					
		quartz carbonate veins.					
		130.40					
		2.0 cm grey quartz vein @ 80 deg., trace pyrite.					
		130.50 - 132.00					
		Chloritic fractures, blocky core.					
		134.60 - 134.80					
		20% grey white quartz carbonate, chloritic, brecciated.	7210	134.50	134.90	0.40	
		134.77					
		1.0 cm quartz vein @ 70 deg., 2% pyrite, trace chalcopyrite.					
140.00	148.65	**GABBROIC BASALT**					
		Dark green, fine to medium grined massive gabbroic basalt with a					
		gradational upper contact.					
		148.00 - 148.65					
		Light grey green bleached sericitic.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
148.65	152.40	**FELSIC DYKE**	7211	148.65	149.25	0.60	
		Grey, light grey to brown grey, fine grained felsic dyke, upper contact at	7212	149.25	149.80	0.55	
		55 deg., lower contact @ 25 deg. Massive to weakly foliated @ 45 deg.	7213	149.80	150.75	0.95	
		to brecciated. Sericitic, carbonated and locally very silicified.	7214	150.75	151.35	0.60	
		1% disseminated medium grained pyrite, 5-10% white grey quartz	7215	151.35	151.90	0.55	
		matrix where dyke is brecciated.	7216	151.90	152.40	0.50	
152.40	172.40	**BASALT TO GABBROIC BASALT**					
		152.40 - 155.00	7217	152.40	152.95	0.55	
		Bleached, sericitic to locally silicified and brecciated, trace to 1% pyrite.	7218	152.95	153.80	0.85	
		156.50 - 156.80	7219	153.80	154.75	0.95	
		Sericitic, chloritic, silicified breccia zone @ 40 deg., 1% pyrite, 3% grey	7220	154.75	155.50	0.75	
		to white quartz in matrix.	7221	155.50	160.00	0.50	
		156.80 - 172.40	7222	160.00	160.65	0.65	
		Medium grained, dark green massive, 1-2%, 0.2-3.0 cm, white quartz					
		veins with trace pyrite in veins and wallrocks.					
		162.65 - 162.95					
		1-3 cm quartz vein @ 0-30 deg., 1% pyrite over 1.0 cm in the wallrocks.	7223	162.60	163.10	0.50	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
172.40	181.45	**ALTERED BASALT / BRECCIA ZONE**	7224	171.90	172.40	0.50	97
		Brecciated grey to light green grey bleached fine grained basalt	7225	172.40	172.90	0.50	
		fragments, 0.5-10.0 cm wide, in a chloritic, sericitic 8-10% matrix.	7226	172.90	173.65	0.75	
		8-10%, 0.1-2.0 cm, white grey fractured quartz veins, trace to 1%	7227	173.65	174.50	0.85	
		medium grained pyrite in fractures and along the vein contacts.	7228	174.50	175.20	0.70	
		Upper contact is marked by a 2 cm grey fault gouge @ 40 deg.	7229	175.20	175.75	0.55	
			7230	175.75	176.50	0.75	
			7231	176.50	177.30	0.80	
			7232	177.30	178.20	0.85	
			7233	178.20	179.10	0.90	
			7234	179.10	179.75	0.65	
			7235	179.75	180.40	0.65	
			7236	180.40	180.95	0.55	
			7237	180.95	181.45	0.50	
181.45	183.50	**PYRITIC QUARTZ CARBONATE ZONE**					
		Light brown to grey brown, silicified, sericitic sheared quartz pyrite	7238	181.45	181.75	0.30	
		carbonate zone. Sheared @ 40-50 deg. with 8-10% pyrite,	7239	181.75	182.20	0.45	
		10-15% grey white, 0.1-1.5 cm wide, quartz veins @ 20-50 deg.	7240	182.20	182.75	0.55	
		with 10%, 0.1-0.5 cm crosscutting white carbonate ladder veins.	7241	182.75	183.15	0.40	
		Upper contact @ 80 deg., lower contact @ 50 deg.	7242	183.15	183.50	0.35	
183.50	195.40	**ALTERED BASALT / BRECCIA ZONE**	7243	183.50	184.20	0.70	
		Grey to light grey, fractured brecciated basalt with 2-3% chloritic	7244	184.20	184.85	0.65	
		fractures, 3-5%, 0.1-5.0 cm wide, white quartz veins, trace to 1% pyrite,	7245	184.85	185.70	0.85	
		trace honey-coloured sphalerite. Zone is not as strongly brecciated	7246	185.70	186.55	0.85	
		as the section from 172.4-181.45 m. The intensity of the brecciation	7247	186.55	187.25	0.70	
		decreases from 190.7 m.	7248	187.25	187.90	0.65	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		183.50 - 183.58	7249	187.90	188.90	1.00	
		White quartz vein @ 90 deg., trace pyrite.	7250	188.90	189.40	0.50	
		188.65 - 188.90	7251	189.40	190.00	0.60	
		Silicified grey basalt with 10% quartz, 1% pyrite.	7252	190.00	190.70	0.70	
			7253	190.70	191.70	1.00	
			7254	191.70	192.60	0.90	
			7255	192.60	193.30	0.70	
			7256	193.30	194.25	0.95	
			7257	194.25	195.50	1.25	
195.40	252.70	**PILLOWED BASALT / ALTERED BASALT**					
		Dark green to grey green, fine grained basalt with light brown grey					
		chloritic fractured sericitic carbonated sections 0.10-1.50 m wide,					
		trace pyrite, 2-3% white quartz ankerite veins.					
		198.80 - 200.05	7258	198.75	199.30	0.55	
		Chloritic pyritic pillow selvages, <1% pyrite.	7259	199.30	200.05	0.75	
		201.00 - 202.45	7260	200.05	200.90	0.85	
		Light brown grey carbonate altered breccia zone with 2% grey quartz	7261	200.90	201.85	0.95	
		and 1% pyrite.	7262	201.85	202.55	0.70	
		211.70 - 211.85					
		Brown grey carbonate zone, 2% pyrite, 5% white quartz carbonate veins	7263	211.30	212.00	0.70	
		218.60 - 219.40					
		Grey brecciated sericitic basalt, trace pyrite. Upper contact is marked	7264	217.30	218.00	0.70	
		by a 1-2 mm grey fault gouge @ 55 deg.	7265	218.00	218.60	0.60	
		219.40 - 220.20	7266	218.60	218.95	0.35	
		Quartz, pyrite and carbonated basalt breccia vein with 0.2-5.0 cm	7267	218.95	219.35	0.35	
		grey to dark grey angular quartz and carbonated sericitic basalt	7268	219.35	219.75	0.40	
		fragments in a finely brecciated pyritic matrix, 5-8% pyrite, 45% quartz	7269	219.75	220.20	0.45	
		and 45% basalt.	7270	220.20	220.70	0.50	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		220.20 - 221.50	7271	220.70	221.50	0.80	
		Sericitic, silicified, fractured brown grey basalt, 2-3% fine grained pyrite	7272	221.50	222.00	0.50	
		and 1% 1mm wide dark grey quartz filled fractures and gashes.	7273	222.00	222.50	0.50	
		221.50 - 231.35	7274	222.50	223.00	0.50	
		Light brown grey to light grey variably altered sericitic, carbonated,	7275	223.00	223.50	0.50	
		silicified and fractured basalt with 2-3%, 0.1-3.0 cm, grey white quartz	7276	223.50	224.05	0.55	
		carbonate veins, trace to 2% pyrite.	7277	224.05	224.50	0.45	
		223.00 - 223.50	7278	224.50	225.00	0.50	
		Grey silicified basalt, 2-3% pyrite, foliated @ 45-50 deg.	7279	225.00	225.50	0.50	
		223.30	7280	225.50	226.00	0.50	
		2.0 cm grey white fractured quartz vein @ 50 deg. with 2-3% pyrite.	7281	226.00	226.55	0.55	
		224.50 - 226.70	7282	226.55	227.15	0.60	
		Siliceous, brecciated, weakly foliated @ 50-90 deg., 1-3% pyrite,	7283	227.15	227.85	0.80	
		10-20% quartz/silicification?, trace chalcopyrite in fractures.	7284	227.85	228.60	0.75	
		224.50 - 224.60	7285	228.60	229.30	0.70	
		Trace brown sphalerite.	7286	229.30	229.75	0.45	
		229.30 - 230.30	7287	229.75	230.35	0.60	
		Sericitic carbonated shear zone @ 50-90 deg., 10% white to grey	7288	230.35	230.80	0.45	
		quartz veins, 1% white carbonate veins, 3-5% pyrite.	7289	230.80	231.35	0.55	
		229.50 - 229.60	7290	231.35	231.95	0.60	
		Grey to dark grey fractured quartz vein @ 50-90 deg. with 2-3% pyrite	7291	231.95	233.00	1.05	
		in the fractures.	7292	233.00	233.75	0.75	
		231.35 - 234.50	7293	233.75	234.30	0.55	
		Grey fractured basalt, 1-2% 0.5 mm white carbonate veinlets,	7294	234.30	235.00	0.70	
		trace quartz veins and pyrite.	7295	235.00	235.50	0.50	
		234.50 - 235.50	7296	235.50	236.00	0.55	
		Dark black green chloritic brecciated fault zone, 80% black chlorite,					
		10% white quartz carbonate veinlets, 1-2% dark fine grained pyrite,					
		10% carbonated basalt fragments, weakly sheared @ 60 deg.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		235.50 - 245.10					
		Light grey fine grained weakly sericitic, carbonated, fractured and					
		silicified ? basalt with 1-2% 0.5 mm white carbonate veinlets.	7297	245.20	245.80	0.60	
		245.10 - 249.70	7298	245.80	246.30	0.50	
		Light grey fine grained sericitic basalt with fractures at 0-20 deg. and	7299	246.30	247.00	0.70	
		0.1-1.0 cm grey quartz veins cutting in and out of the core and along the	7300	247.00	247.80	0.80	
		axis of the core, trace to 1% pyrite.	7301	247.80	248.50	0.70	
		248.40 - 249.05	7302	248.50	249.30	0.80	
		Grey quartz vein @ 0-20 deg. with 2% pyrite in the veins and wallrocks.	7303	249.30	250.00	0.70	
		249.70 - 252.70	7304	250.00	251.00	1.00	
		Light green grey, sericitic and silicified, 1%0.5 mm dark grey quartz	7305	251.00	251.95	0.95	
		veinlets, trace to 1% pyrite.	7306	251.95	252.70	0.75	
252.70	280.80	**ALTERED BRECCIATED BASALT**					
		252.70 - 265.20					
		Fine grained light brown grey sericitic carbonated basalt with 15-20%	7307	255.25	255.90	0.65	
		0.1-1.5 m wide chloritic black green brecciated zones,	7308	255.90	256.60	0.70	
		2-3% quartz carbonate veins.	7309	256.60	257.50	0.90	
		255.25 - 255.90, 256.50 - 257.50 & 258.40 - 258.55	7310	257.50	258.10	0.60	
		Chloritic, sericitic breccia zones, 5-10% quartz veins, trace to 1% pyrite.	7311	258.10	258.60	0.80	
		255.65 - 255.80					
		Dark grey, 2-3% pyrite.					
		256.40 - 257.20					
		Sericitic, moderately sheared @ 50-55 deg., trace pyrite.					
		258.40 - 258.55					
		Dark black green, sheared @ 55 deg., 1.0 cm quartz vein, 3% pyrite.					
		263.85 - 265.20					
		Brecciated sericitic, 1% pink vuggy calcite veins, 5% quartz breccia	7312	263.85	265.20	1.35	90
		matrix, trace to 1% pyrite, 90% recovery.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		265.20 - 275.20					
		Bleached brown grey fine grained sericitic carbonated basalts with 1%					
		0.1-2 mm dark grey black chlorite + quartz filled fractures, trace pyrite.					
		275.20 - 276.35					
		Silicified grey brown bleached fractured basalt, 1% grey quartz breccia	7313	275.20	275.85	0.65	
		veins, trace pyrite.	7314	275.85	276.35	0.50	
		276.35 - 276.45, 276.70 - 276.80, 277.05 - 277.70 & 278.20 - 279.00	7315	276.35	277.00	0.65	
		Quartz breccia veins, 10-80 cm wide, with grey, white and dark grey	7316	277.00	277.70	0.70	
		0.5-2.0 cm quartz and bleached basalt fragments in a finer grained quart	7317	277.70	278.40	0.70	95
		sericitic brown carbonated brecciated quartz matrix, 1% pyrite,	7318	278.40	279.00	0.60	98
		trace sphalerite, weak foliation @ 50 deg.	7319	279.00	280.00	1.00	97
		278.30	7320	280.00	280.80	0.80	93
		Vuggy pink crystalline calcite vein @ 50 deg. with bright yellow canary					
		yellow sulphur stains.					
		279.00 - 280.80					
		Fractured silicified grey brown bleached basalt with 1-2% vuggy pink					
		white calcite veins. Core is badly broken up, 95% recovery.					
		279.20					
		2 mm dark grey mud fault @ 40 deg.					
280.80	**284.20**	**GRAPHITIC BRECCIA**					
		Black silicified graphitic breccia, 1-2% dark finely disseminated and	7321	280.80	281.30	0.60	97
		blebs of pyrite, 5-10% white quartz carbonate veinlets.	7322	281.30	282.00	0.70	
		281.00	7323	282.00	282.50	0.50	
		1.0 cm graphitic fault gouge @ 25 deg.	7324	282.50	283.00	0.50	
		283.70 - 284.10	7325	283.00	283.60	0.60	
		0.5 cm graphitic fault gouge @ 15 deg.	7326	283.60	284.20	0.60	

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DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
284.20	287.10	**ALTERED BASALT / GRAYWACKE**					
		284.20 - 284.80	7327	284.20	284.80	0.60	
		Silicified fractured, grey brown bleached carbonated basalt, trace pyrite,	7328	284.80	285.50	0.70	
		10-15% grey quartz fragments, 1% light brown sphalerite.	7329	285.50	286.15	0.65	
		284.80 - 285.50	7330	286.15	287.15	1.00	
		Grey brown weakly silicified and fractured basalt, trace pyrite.					
		285.5- - 286.60					
		Medium grained graywacke.					
		286.60 - 287.10					
		Bleached basalt.					
287.10	323.80	**GRAPHITIC SEDIMENTS / GRAYWACKE**					
		287.10 - 291.50					
		Grey medium grained fairly massive graywacke.					
		291.50 - 295.90					
		Grey brown to brown grey, fine grained silicified brown carbonated	7331	291.50	292.00	0.50	
		brecciated sediment ? trace to 1% brown sphalerite, 1-3% finely	7332	292.00	292.50	0.50	
		disseminated pyrite, 5-10% black graphitic and white carbonate	7333	292.50	293.10	0.60	
		brecciated matrix over widths of 0.6-1.0 m at the contacts.	7334	293.10	293.80	0.70	
		Upper contact sheared @ 45 deg., sharp lower contact @ 25 deg.	7335	293.80	294.65	0.85	
		295.90 - 296.50	7336	294.65	295.20	0.55	
		Graphitic shear zone @ 25-40 deg.	7337	295.20	295.90	0.70	
		296.50 - 298.30	7338	295.90	296.40	0.50	
		Silicified black graphitic massive fine grained sediment with 3-5% white	7339	296.40	297.10	0.70	
		carbonate veins, 2-3% disseminated pyrite.	7340	297.10	297.70	0.60	
		298.30 - 299.55	7341	297.70	298.30	0.60	
		Yellow grey, sericitic, fractured graywacke, 1-2% grey white	7342	298.30	298.90	0.60	
		quartz veins, 1% pyrite.	7343	298.90	299.60	0.70	

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METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		298.90 - 299.10	7344	299.60	300.25	0.65	
		Graphitic shear\breccia zone @ 30 deg.	7345	300.25	301.30	1.00	
		299.55 - 301.35	7346	301.30	301.80	0.50	
		Black to dark grey graphitic sediment with 10-15% irregular, 1.0-5.0 cm,	7347	301.80	302.40	0.60	
		grey white quartz veins with trace pyrite.	7348	302.40	302.85	0.45	
		301.35 - 303.35	7349	302.85	303.35	0.50	
		Fine grained black graphitic sediments with 0.2-0.35 m wide light grey					
		brown silicified carbonated pyritic graywacke with 0.5% green fuchsite					
		altered clasts up to 2 mm, 1-2% pyrite, 2-3% quartz carbonate veins.					
		303.35 - 308.35					
		Graphitic silicified sediments, 3-5% quartz carbonate veins, 1-2% pyrite.					
		306.90 - 307.65					
		10% quartz carbonate veins, 3-5% 1 mm pyrite veinlets.	7350	307.15	307.65	0.50	
		308.35 - 310.50					
		Graphitic breccia with 0.5-3.0 cm grey sediment fragments in a black	7351	308.35	309.00	0.65	
		graphitic silicified brecciated matrix, 1-2% disseminated pyrite,	7352	309.00	309.90	0.90	
		3-5% grey white quartz veins and breccia fragments.	7353	309.90	310.50	0.60	
		310.50 - 312.73	7354	310.50	311.00	0.50	
		Grey brown carbonated brecciated fine grained sediment, intrusive or	7355	311.00	311.50	0.50	
		volcanic?? 10-15% black graphitic matrix with 1-2% pyrite.	7356	311.50	312.00	0.50	
		312.73 - 318.50	7357	312.00	312.73	0.73	
		Fine grained massive green grey, hard siliceous felsic dyke	7358	312.73	313.60	0.87	
		with 1% 1 mm brown to purple brown lucoxene.					
		317.85 - 318.50	7359	317.80	318.60	0.80	
		Silicified, weakly sheared @ 20-30 deg., 2% fine grained pyrite.	7360	318.30	319.30	0.70	
		318.50 - 323.80	7361	319.30	320.00	0.70	
		Graphitic breccia, hard silicified angular, 0.5-5.0 cm, grey to brown	7362	320.00	320.80	0.80	
		carbonated graywacke fragments in a black graphitic pyritic fine grained	7363	320.80	321.60	0.80	
		matrix, upper contact sheared @ 20 deg., lower contact @ 70 deg.	7364	321.60	322.60	1.00	

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METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		322.60 - 323.40	7365	322.60	323.40	0.80	
		Light grey felsic dyke same as at 312.73 - 318.50 m.	7366	323.40	323.80	0.40	
323.80	327.00	**LAMPROPHYRE DYKE**					
		Grey to green grey lamprophyre dyke with 2-3%, 1-2 mm, altered yellow					
		green mica phenocrysts, upper contact @ 70 deg.					
		lower contact @ 40 deg.					
327.00	335.75	**GRAPHITIC SEDIMENTS**					
		327.00 - 329.20					
		Grey brown carbonated fractured moderately silicified fine grained					
		altered sediments with 1-2% pyrite and 0.1-0.9 m wide interbedded					
		black graphitic horizons.					
		329.20 - 330.45					
		Black hard silicified graphitic sediments with 10% pyrite disseminated					
		and 1.0-5.0 cm massive veins, trace to 1% sphalerite.	7367	328.00	328.55	0.55	
		329.20 - 329.35	7368	328.55	329.15	0.60	
		80% fine grained massive pyrite.	7369	329.15	329.60	0.45	
		330.45 - 335.75	7370	329.60	330.45	0.85	
		Brecciated grey fine grained graywacke with 0.5-3.0 cm angular	7371	330.45	331.00	0.55	
		fragments in a black hard 5-10% matrix, trace to 1% pyrite.					

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DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
335.75	342.75	**ALTERED INTRUSIVE**	7372	335.10	335.75	0.65	
		Light green grey to brown grey, very fine grained hard silicified	7373	335.75	336.30	0.55	
		brecciated altered intrusive (diorite?), 5-10% medium grained euhedral	7374	336.30	337.10	0.80	
		pyrite in a 10-15% dark grey black siliceous carbonate matrix.	7375	337.10	337.70	0.60	
		Upper contact @ 25 deg., lower contact @ 70-80 deg.	7376	337.70	338.40	0.70	
			7377	338.40	339.10	0.70	
			7378	339.10	339.80	0.70	
			7379	339.80	340.35	0.55	
			7380	340.35	341.05	0.70	
			7381	341.05	341.65	0.60	
			7382	341.65	342.15	0.50	
342.75	348.50	**GRAPHITIC SCHIST / GRAYWACKE**	7383	342.15	342.70	0.55	
		342.75 - 343.65	7384	342.70	343.10	0.40	
		Brecciated silicified graywacke with 25% pyrite disseminated and	7385	343.10	343.65	0.55	
		massive veins at 342.75 - 342.80 m and 342.93 - 343.05 m.					
		343.65 - 348.50					
		Black, fine grained hard graphitic schists and sediments, sheared,					
		contorted and brecciated, 10-15% white carbonate veins, 1-2% pyrite.	7386	347.25	348.50	1.25	
348.50	350.30	**QUARTZ VEIN**					
		Grey white fractured quartz vein with 3-5% graphite-filled fractures,	7387	348.50	349.30	0.80	
		trace pyrite, upper contact @ 40 deg., lower contact @ 15 deg.	7388	349.30	350.00	0.70	
350.30	354.55	**GRAPHITIC BRECCIA**					
		5-10%, 0.1-2.0 cm, subangular graywacke, 5-10% quartz and 1% pyrite	7389	350.00	350.60	0.60	
		fragments in a fine grained black hard graphitic 75-80% matrix with	7390	350.60	351.65	1.05	
		2-3% pyrite and trace sphalerite.	7391	351.65	352.35	0.70	

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METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		350.45 - 350.65	7392	352.35	353.00	0.65	
		70%, 1.0-5.0 cm, quartz vein fragments in a graphitic matrix.	7393	353.00	353.70	0.70	
		351.45 - 351.65	7394	353.70	354.55	0.85	
		80% quartz fragments.					
354.55	357.25	**QUARTZ VEIN**	7395	354.55	355.05	0.50	
		Grey white fractured quartz vein with 5-10% black hard graphite	7396	355.05	355.70	0.65	
		filled fractures, trace to 1% pyrite, trace honey-coloured sphalerite.	7397	355.70	356.30	0.60	
			7398	356.30	356.85	0.55	
			7399	356.85	357.35	0.50	
357.25	360.00	**GRAPHITIC ARGILLITE / GRAYWACKE**					
		Dark to black finely bedded argillite and graywacke with 1% finely					
		disseminated pyrite, contorted bedding @15-160 deg., 5-10% white					
		carbonate veins.					
360.00	365.55	**GRAPHITIC BRECCIA**					
		Angular, 0.2-7.0 cm grey pyritic graywacke fragments in a black hard					
		pyritic graphitic matrix, 3-5% pyrite, 50% fragments, 45% matrix.	7400	360.00	361.00	1.00	
		364.75 - 364.95	7401	361.00	361.95	0.95	
		Medium grained euhedral pyrite vein @ 20 deg., 3% black rock	7402	361.95	363.00	1.05	
		fragments, trace sphalerite.	7403	363.00	364.00	1.00	
		365.33 - 365.55	7404	364.00	364.70	0.70	
		Medium grained euhedral pyrite vein @ 20 deg., 5% rock fragments,	7405	364.70	365.35	0.65	
		1% sphalerite.	7406	365.35	365.90	0.55	

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DIAMOND DRILL LOG

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METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
365.55	403.75	**ALTERED BASALT / MAFIC INTRUSIVE**					
		365.55 - 365.85	7407	365.90	366.55	0.60	
		Grey brown, silicified fractured basalt with 1-2%, 1-5 mm dark grey	7408	366.55	367.45	0.90	
		green chlorite and quartz filled fractures, 2-3% medium grained	7409	367.45	368.10	0.65	
		euhedral pyrite and 1% honey-coloured sphalerite.	7410	368.10	368.85	0.75	
		365.85 - 368.85	7411	368.85	369.45	0.60	
		Fine grained light green grey fractured weakly silicified basalt.	7412	369.45	370.10	0.65	
		1-2%, 1-5 mm, grey quartz veinlets, <1% medium grained pyrite.	7413	370.10	371.50	1.40	
		368.85 - 370.10	7414	371.50	372.50	1.00	
		Quartz breccia vein with 0.5-1.0 cm grey quartz veins @ 0-20 deg. in a	7415	372.50	373.20	0.70	
		quartz breccia matrix, 5-10% later quartz carbonate veins, trace pyrite	7416	373.20	373.70	0.50	
		and sphalerite. Upper contact is marked by a fracture @ 160 deg. and	7417	373.70	374.70	1.00	
		the lower contact is marked by a 0.3 cm fault gouge @ 20 deg.	7418	374.70	375.60	0.90	
		370.10 -379.35	7419	375.60	376.60	1.00	
		Light grey, brown grey to green grey, weakly fractured, sericitic and	7420	376.60	377.60	1.00	
		locally silicified, 1% fine to medium grained pyrite, strongly calcareous.	7421	377.60	378.60	1.00	
		372.50 - 373.70	7422	378.60	379.30	0.70	
		Moderately silicified, 3-5% medium grained pyrite.	7423	379.30	380.25	0.95	
		379.35 - 383.70	7424	380.25	381.15	0.90	
		Light green grey fine grained altered intrusive with 1-2% leucoxene.	7425	381.15	381.70	0.55	
		5-10% white carbonate veinlets.	7426	381.70	383.00	1.30	
		383.70 - 386.00	7427	383.00	384.00	1.00	
		Chloritic brecciated green brown carbonated and silicified bands	7428	384.00	384.85	0.85	
		2.0-6.0 cm wide @ 70 deg. with 1% pyrite.	7429	384.85	385.35	0.50	
		386.00 - 390.25	7430	385.35	386.00	0.65	
		Light grey to grey brown fine grained, fractured silicified altered intrusive	7431	386.00	386.70	0.70	
		or basalt with pink vuggy calcite veins and up to 1% pyrite.	7432	386.70	387.90	1.20	
		386.40 - 386.50	7433	387.90	388.80	0.90	
		5-10% grey quartz vein @ 60 deg. with 3-5% pyrite.	7434	388.80	389.40	0.60	

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METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		389.55 - 390.25	7435	389.40	389.50	0.50	
		Finely brecciated, 1-2 mm, grey quartz carbonate vein @ 60 deg. with	7436	389.50	390.30	0.40	
		3-5% fine to medium grained pyrite.					
		389.00 - 390.25					
		<1%, 0.1-0.5 cm, green carbonate veinlets.					
		390.25 - 391.40					
		Light olive green lamprophyre dyke with 5-10%, 1-3 mm olive yellow					
		brown altered mica phenocrysts. Weakly foliated @ 70 deg.					
		Upper contact @ 20 deg., lower contact @ 40 deg.					
		391.40 - 394.80	7437	394.80	395.30	0.50	
		Light grey to grey, fractured altered basalt with patchy carbonate	7438	395.30	395.80	0.50	
		and silicic alteration, trace pyrite.	7439	395.80	396.50	0.70	
		394.80 - 401.40	7440	396.50	397.20	0.70	
		10-15% grey brown patchy carbonate alteration which is more intense	7441	397.20	398.10	0.90	
		near the dyke contact's.	7442	398.10	399.05	0.95	
		397.10 - 397.75, 397.80 - 397.90 & 398.15 - 398.90	7443	399.05	400.10	1.05	
		Altered yellow green mica porphyritic lamprophyre dykes cutting in and	7444	400.10	401.25	1.10	
		out of the core.	7445	401.25	401.80	0.55	
		401.40 - 403.10	7446	401.80	402.25	0.45	
		Brecciated silicified basalt with 1-10% yellow brown carbonate with	7447	420.25	402.75	0.50	
		sphalerite? and 1-3% fine to medium grained pyrite.	7448	402.75	403.15	0.40	
		403.50 - 403.75					
		Fractured grey carbonate vein @ 130 deg.					
403.75	407.00	**LAMPROPHYRE DYKE**					
		403.75 - 407.00					
		Grey green medium grained lamprophyre dyke with 15-20%, 1-3 mm,					
		green brown mica phenocrysts, massive to weakly sheared @ 40 deg.					
		nonmagnetic , upper contact @ 70 deg., lower contact @ 5 deg.					

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DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
407.00	433.65	**BASALT**					
		Grey fine grained, massive to brecciated calcareous basalt with					
		0.5-1.5 m wide breccia zones with 0.1-6.0 cm angular basalt fragments					
		in a black matrix, trace pyrite.					
		412.80 - 413.20					
		Light brown carbonated, weakly silicified zone with 2-3% pyrite,	7449	412.80	413.30	0.50	
		weakly sheared @ 45 deg.	7450	413.30	414.15	0.85	
		413.40 - 414.90	7451	414.15	414.90	0.75	
		Brecciated basalt with 10-15% black chloritic graphitic matrix,	7452	414.90	415.90	1.00	
		1-2% medium grained brassy pyrite in the matrix.	7453	415.90	416.70	0.80	
		414.90 - 418.13	7454	416.70	417.40	0.70	
		Weakly brecciated and sheared @ 45-50 deg., 2-3% white quartz	7455	417.40	418.20	0.80	
		carbonate veinlets, trace to 1% pyrite.					
		431.10 - 432.70					
		Brecciated with 5-10% black chloritic matrix, trace pyrite.					
		432.70 - 433.50	7456	432.70	433.35	0.65	
		Brecciated, 3-5% white carbonate veins.	7457	433.35	433.80	0.45	
		433.50 - 433.65	7458	433.80	435.10	1.30	
		Grey brown carbonate, 3-5% fine to medium grained pyrite.	7459	435.10	436.30	1.20	
433.65	516.94	**GRAPHITIC SEDIMENTS**					
		Black brecciated to finely bedded to massive relatively soft					
		graphitic sediments.					
		433.80 - 434.20					
		Grey green, mica porphyritic lamprophyre dyke @ 50 deg.					
		434.20 - 436.25					
		Brecciated, 3-5% white carbonate veins, 3-5% grey quartz veins,					
		3-5% medium grained pyrite blebs, trace sphalerite.					

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METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		436.25 - 439.40					
		Finely bedded graphitic sediments, bedding @ 5-20 deg., 1-2% pyrite.					
		439.40 - 442.58					
		Coarse grained massive altered mica porphyritic lamprophyre dyke,					
		upper contact @ 30 deg., lower contact @ 70 deg.					
		442.30 - 442.58	7460	442.30	443.05	0.75	
		2-3% green carbonate veins, 3% grey quartz veins, 2% pyrite.	7461	443.05	443.60	0.55	
		443.10 - 444.20, 445.30 - 445.80 & 446.70 - 447.00	7462	443.60	444.20	0.60	
		Fine to medium grained, light grey to green diorite dykes @ 30-60 deg.,	7463	444.20	445.30	1.10	
		with 3-5% fine to medium grained pyrite, intruding contorted to massive	7464	445.30	445.95	0.65	
		graphitic sediments and schists with 5-10% white carbonate veins and	7465	445.95	446.70	0.75	
		3-5% medium grained pyrite blebs.	7466	446.70	447.00	0.30	
		449.05 - 449.25	7467	447.00	447.90	0.90	
		Green grey dyke @ 20 deg. with 15-20%, 1-2 mm, grey cracked quartz	7468	447.90	448.92	1.02	
		phenocrysts in a felsic medium grained dioritic matrix, 1-2% pyrite.	7469	448.92	449.37	0.45	
		Similar to the dykes above except for the distinct quartz phenocrysts.					
		449.25 - 468.75					
		Soft graphitic sediments with 0.3-0.5 m medium grained graywacke	7470	456.15	456.95	0.80	
		horizons, 5-10% white carbonate veins, 2-3% medium grained pyrite					
		blebs and veinlets.	7471	465.30	466.20	0.90	
		467.20					
		Bedding @ 40 deg.					
		468.25 - 468.70					
		Bedding @ 60 deg.					
		468.75 - 472.40					
		Green fine grained massive diorite dyke with very irregular contacts					
		and graphitic sediment inclusions, 1-2% medium grained pyrite.					

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DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		472.40 - 476.50					
		Fine grained black to dark grey massive graywacke and argillite,	7472	471.55	472.40	0.95	
		1-2% fine to medium grained pyrite disseminations and clusters.	7473	472.40	473.35	0.95	
		476.50 - 498.27					
		Fine grained massive grey graywacke with 5%, 0.1-1.5 m black argillite					
		horizons, 1%, 1-5 mm, white quartz carbonate veinlets, trace pyrite.					
		498.27 - 509.10	7474	501.15	502.20	1.05	
		Black very fine grained soft graphitic argillite with 2-5% medium grained	7475	502.20	502.90	0.70	
		pyrite disseminations, veinlets and clusters. Bedding @ 60 deg.	7476	502.90	503.80	0.80	
		502.20 - 503.70, 504.00 - 504.55 & 506.20 - 507.10	7477	503.80	504.75	0.90	
		Light olive grey to green, fine to medium grained diorite dykes	7478	504.75	505.45	0.70	
		with 1% pyrite, contacts at 20-50 deg.	7479	505.45	506.15	0.70	
		504.55 - 504.70	7480	506.15	507.15	1.00	
		White grey 1.0 cm wide quartz carbonate vein @ 40 deg. in a black	7481	507.15	508.15	1.00	
		graphitic matrix, <1% pyrite.	7482	508.15	509.10	0.95	
		509.10 - 510.65					
		Grey fine to medium grained massive graywacke.					
		510.65 - 516.94					
		Black fine grained graphitic argillite.					
		510.65 - 513.25					
		Soft graphitic sediment, 1% pyrite.					
		513.25 - 516.50					
		Hard, silicified, grey black argillite, 2-3% medium grained pyrite.	7483	513.25	514.25	1.00	
		516.50 - 516.94	7484	514.25	515.30	1.05	
		Sheared @ 50-60 deg., 0.5 cm grey mud fault @ 50 deg. at 516.94 m.	7485	515.30	515.90	0.60	
		10-15% white quartz breccia matrix and veinlets @ 50 deg.,	7486	515.90	516.50	0.50	
		3%, 0.6-1.5 cm, later white quartz veins @ 50-110 deg., 5% white	7487	516.50	516.94	0.44	
		carbonate veinlets near the upper contact, 5-8% pyrite as 0.5 cm blebs	7488	516.94	517.55	0.61	
		and finely disseminated, trace sphalerite, <1% fine grained chalcopyrite.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
516.94	598.55	**KOMATIITE**					
		516.94 - 547.35					
		Fine to medium grained, dark green black, sheared to massive,					
		carbonated, serpentinized, talcose ultramafic komatiites with 15-20%					
		white carbonate.					
		516.94 - 516.50					
		Sheared @ 50-60 deg., weakly to strongly magnetic.					
		521.45, 521.60 & 521.80					
		0.5-1.0 cm green fault gouge @ 60 deg.					
		533.05 - 533.15					
		Spinifex texture indicating tops in the up hole direction?					
		536.40, 536.80 & 537.85 - 537.95					
		Green fault gouge, 0.2-1.0 cm, @ 20-50 deg.					
		544.55 -545.30					
		Sheared @ 60 deg., 20-25% white green carbonate veins, trace green	7489	544.55	545.30	0.75	
		carbonate, 1% grey white quartz veins 1% medium grained pyrite cubes.					
		547.35 - 583.50					
		Mottled white green, nonmagnetic, ultramafic komatiites with 15-20%					
		white quartz carbonate veins @ 50 deg.					
		563.90 - 564.90					
		1%, 1-2 mm, pyrite cubes, sheared @ 50 deg.	7490	563.90	564.90	1.00	
		564.25 - 564.65					
		10%, 0.5-1.0 cm, grey quartz veins @ 50 deg. with 2% later 1 cm cross-					
		cutting, twisted and twirled black quartz veins.					
		583.40 - 583.50					
		Green fault gouge @ 70 deg.					
		583.80 - 590.75					
		Serpentinized,dark green to mottled white green, weakly magnetic,					
		10-15%, 0.5-1.0 cm, white contorted quartz carbonate veins.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
		590.75 - 598.55					
		White green mottled ultramafics, nonmagnetic to weakly magnetic.					
598.55	629.55	**GREEN CARBONATE / ALTERED KOMATIITE**	7491	598.55	599.65	1.10	80
		Weakly fuchsite altered green carbonated ultramafics with 0.1-1.6 m	7492	599.65	600.65	1.00	
		wide strongly altered bright fuchsite green carbonated sections,	7493	600.65	601.35	0.70	
		trace, 1-2 mm, pyrite cubes, 3-5%, 0.1-3.0 cm wide irregular white	7494	601.35	602.00	0.65	
		quartz carbonate veins at all angles, 1%, 0.5 -5.0 cm, white black	7495	602.00	603.00	1.00	
		quartz tourmaline with traces of pyrite.	7496	603.00	604.00	1.00	
		599.24 - 600.00	7497	604.00	604.50	0.50	
		70% recovery.	7498	604.50	605.07	0.57	
		600.65 - 602.0, 603.0 - 604.0, 604.4 - 605.1, 605.45 - 607.2	7499	605.07	605.75	0.68	
		& 609.0 - 611.6	7500	605.75	606.50	0.75	
		Strongly altered green carbonate zones.	7501	606.50	607.25	0.75	
		609.85 - 610.10	7502	607.25	608.15	0.90	
		20% white black quartz tourmaline veins.	7503	608.15	609.00	0.85	
		613.45 - 613.75	7504	609.00	609.65	0.65	
		60%, 2.0-5.0 cm, white black quartz tourmaline veins.	7505	609.65	610.17	0.52	
		613.25 - 613.40	7506	610.17	610.75	0.58	
		Sheared @ 60 deg.	7507	610.75	611.65	0.90	
		617.0 - 617.4, 618.4 - 620.1 & 623.85 - 626.25	7508	611.65	612.30	0.65	
		Strongly altered green carbonate, trace pyrite cubes.	7509	612.30	613.20	0.90	
		618.55 - 618.70, 619.15 - 619.30, 619.55 - 620.00 & 623.95 - 624.15	7510	613.20	613.80	0.60	
		White and black, 1.0-5.0 cm, quartz tourmaline veins @ 25-40 deg.	7511	613.80	614.50	0.60	
		with 20-30% tourmaline, 60-70% quartz, 10% carbonate, trace pyrite.	7512	614.50	615.40	0.90	
		629.00 - 629.55	7513	615.40	616.20	0.80	
		Moderately sheared @ 55 deg., 5-10% grey quartz veins,	7514	616.00	616.90	0.70	
		5% brown carbnate.	7515	616.90	617.45	0.55	
			7516	617.45	618.45	1.00	
			7517	618.45	619.00	0.55	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake

METRES		DESCRIPTION	SAMPLE				
From	To		No.	From	To	Length	% Rec.
			7518	619.00	619.50	0.50	
			7519	619.50	620.10	0.60	
			7520	620.10	621.00	0.90	
			7521	621.00	622.00	1.00	
			7522	622.00	622.95	0.95	
			7523	622.95	623.80	0.85	
			7524	623.80	624.30	0.50	
			7525	624.30	625.10	0.80	
			7526	625.10	626.00	0.90	
			7527	626.00	627.15	1.15	
			7528	627.15	627.95	0.80	
			7529	627.95	628.90	0.95	
			7530	628.90	629.60	0.70	
629.55	**638.86**	**KOMATIITE**					
		Black green serpentinized carbonated komatiite, 2-3% white carbonate.					
	638.86	**E. O. H.**					

QUEENSTON MINING INC.
SUMMARY DRILL LOG

UG

PROPERTY: VIGRASS LAKE						HOLE: 94-02
TOWNSHIP: Otto	DATE LOGGED : Sept. 28 - Oct. 8, 1994	EASTING: 104+30m	Depth	Method	Azimuth	Dip
CLAIM No.: 842494, 544546	LOGGED BY : W. Benham	NORTHING: 89+50 m	Collar	Compass	360	-66
STARTED: Sept. 27, 1994	DRILLED BY : Heath & Sherwood	LENGTH: 641.90 m	61 m	Acid		-66
COMPLETED: Oct. 7, 1994	CORE LOCATION: Upper Canada	CORE SIZE: NQ	122 m	"		-65
SIGNED BY: W. Benham		(Note: Metric Grid)	183 m	"		-65
			244, 305 m	"		-64
			366 m	"		-65
PURPOSE: To test 88-8 gold-carbonate zone at the 400 metre level 275 m to the west of hole 94-01.			427 m	"		-66
			488 m	"		-65
COMMENTS: Intensity of alteration in the 88-8 zone decreases at depth, weakly anomalous gold mineralization			549 m	"		-64
was intersected 200 m to the south of the 88-8 zone, from 68.40 to 70.00 m, 0.20 g/t Au / 1.60 m			610 m	"		-65

METRES		SUMMARY LOG		ASSAY SUMMARY			
From	To	Lithology	Mineralization	From	To	Feet	Au g/t
0.00	1.80	Overburden					
1.80	47.20	Brecciated Basalt					
47.20	102.20	Pillowed Basalt	2-3% pyrite, carbonated	68.40	70.00	1.60	0.200
102.20	115.35	Diorite					
115.35	142.80	Dioritic Basalt					
142.80	146.40	Lamprophyre Dyke					
146.40	153.30	Pillowed Basalt					
153.30	288.10	Massive to Brecciated Basalt					
288.10	289.05	Lamprophyre Dyke					
289.05	291.55	Fractured Basalt					
291.55	294.00	Lamprophyre Dyke					
294.00	298.50	Fractured Basalt					
298.50	302.85	Pyritic Quartz Carbonate Zone					
302.85	305.95	Altered Basalt					
305.95	309.35	Lamprophyre Dyke					
309.35	319.45	Altered Basalt					
319.45	338.20	Pillowed Basalt					

QUEENSTON MINING INC.
SUMMARY DRILL LOG

METRES		SUMMARY LOG	ASSAY SUMMARY				
From	To	Lithology	Mineralization	From	To	Feet	Au g/t
338.20	335.55	Brecciated Pillowed Basalt					
355.55	420.05	Altered Basalt / Diorite					
420.05	443.70	Diorite					
443.70	448.75	Lamprophyre Dyke					
448.75	467.60	Diorite / Brecciated Diorite					
467.60	476.10	Graphitic Sediments					
476.10	480.65	Graphitic Schist					
480.65	481.85	Pyritic Quartz Breccia Vein					
481.85	490.35	Green Carbonate Zone					
490.35	641.90	Komatiite					
	641.90	E. O. H.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — **Hole: 94 - 02**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
0.00	1.80	**OVERBURDEN**									
1.80	34.50	**FRACTURED BASALT**									
		1.80 - 11.00									
		Green grey, very fine grained fractured basalt with 1-2%, 0.5-1 mm,									
		black chloritic filled fractures, strongly calcareous.									
		7.30 - 8.45									
		2-3% medium grained pyrite in 5-10% black matrix.	7531	7.30	8.50	1.20	99	2	1	Nil	
		11.00 - 30.00									
		Grey to light grey fractured basalt, noncalcareous, weak pachy									
		silicification, 1-2% chloritic + quartz filled fractures.									
		20.25 - 21.00									
		10-15% black chloritic matrix in a brecciated basalt, 3-5% medium	7532	20.20	21.00	0.80		3	1	0.03	
		grained dark pyrite, 1% white quartz carbonate veins.									
		30.00 - 34.50									
		Light green grey to grey, fractured, patchy silicification.									
34.50	47.20	**BRECCIATED BASALT**	7533	34.50	35.20	0.70	90	Tr		Nil	
		Light grey to brown grey, silicified brecciated fine grained basalt.	7534	35.20	35.90	0.70				0.03	
		35.20 - 38.70	7535	35.90	36.70	0.80				0.01	
		0.5-5.0 cm angular fragments in a finer quartz chlorite 10-15% breccia	7536	36.70	37.45	0.75				0.01	
		matrix, 1% pyrite, 5% quartz.	7537	37.45	38.40	0.95				Nil	
		40.60 - 41.45	7538	38.40	39.50	1.10				Nil	
		3-5% pyrite in quartz breccia zone at 30 deg., 20% quartz.	7539	39.50	40.60	0.90				0.03	
		42.00 - 42.80	7540	40.60	41.45	0.85		5	20	0.08	
		Light brown grey breccia zone, 2-3% pyrite in a 5-10% quartz breccia	7541	41.45	42.10	0.65		1	1	Nil	
		matrix, 2% quartz.	7542	42.10	43.00	0.90		Tr	1	0.03	
		43.00 - 46.15	7543	43.00	43.70	0.70				0.04	
		Light brown grey breccia zone, 1-2% pyrite, 5-10% quartz.	7544	43.70	44.50	0.80				0.08	
			7545	44.50	45.40	0.90				0.20	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — **Hole: 94 - 02**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		46.15 - 47.20									
		Sheared and brecciated at 15-25 deg., 1% pyrite, 3% grey white quartz.	7546	45.40	46.00	0.60		1	3	Nil	
			7547	46.00	47.20	1.20		1	3	0.02	
47.20	102.20	**PILLOWED BASALT**									
		Grey green to green pillowed basalt with patchy light grey silicification.									
		54.35 - 56.35	7548	54.50	55.30	0.80		2	1	Nil	
		Brown green silicified, brecciated with 1-2% green white green quartz	7549	55.30	55.85	0.55		2	1	0.01	
		carbonate veinlets @ 0-20 deg., 2-3% pyrite.	7550	55.85	56.35	0.50		2	1	Nil	
		62.00 - 62.70 & 63.30 - 63.70	7551	62.00	63.20	1.20		1	5	0.01	
		Light green brown grey alteration alteration, 5% quartz, 1-2% pyrite.	7552	63.20	63.70	0.50		2	5	Nil	
		68.40 - 69.35									
		Light yellow brown carbonate alteration, 2-3% pyrite,	7553	68.40	69.38	0.98		2	20	0.20	
		weakly sheared @ 40 deg.	7554	69.38	70.00	0.62		2	3	0.21	
		68.80 - 69.00	7555	70.00	71.00	1.00		2	3	0.05	
		White quartz vein @ 40 deg.									
		69.60 - 69.95									
		70% brown carbonate alteration, 2-3% pyrite, 3% quartz.									
		69.95 - 70.95									
		10-15% brown carbonate, 1% pyrite.									
		89.55 - 90.60									
		Sheared @ 30 deg., chloritic, 10-15%, 0.5-1.0 cm, white to grey quartz	7556	89.55	90.60	0.95		1	15	Nil	
		veins, 1-2% pyrite.									
		92.95 - 93.05									
		Quartz + chlorite shear zone @ 50 deg., 1% pyrite.	7557	92.70	93.20	0.50		1	5	Nil	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — **Hole: 94 - 02**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		98.00									
		1 cm grey mud fault @ 40 deg.	7558	97.90	98.80	0.90			5	0.01	
		98.00 - 102.20	7559	98.80	99.70	0.90			5	Nil	
		Brecciated with mud fault slips @ 0-40 deg., 5% barren quartz	7560	99.70	101.10	1.40	50		5	Nil	
		fragments and pink carbonate veinlets.	7561	101.10	102.15	1.05			5	Nil	
102.20	115.35	**DIORITE**									
		Grey to green grey, massive, fine to medium grained diorite locally									
		with 1 mm chloritic "phenocrysts".									
115.35	142.80	**DIORITIC BASALT**									
		Grey green fine grained massive dioritic basalt.									
		126.60 - 127.40									
		Brecciated 10-15% light brown carbonate, 5-10% grey white quartz	7562	126.55	127.40	0.85		1	10	0.01	
		veinlets, 1% pyrite, upper contact marked by a mud slip @ 10-15 deg.									
		128.70 - 131.20	7563	128.70	129.95	1.25		1	1	Nil	
		Weakly brecciated 5% light green brown carbonate, <1% pyrite.	7564	129.95	131.25	1.30		1	1	Nil	
		136.60 - 139.00									
		Light brown grey to green grey carbonate and silicification along									
		10% fractures, 1% pyrite.									
		136.75 - 137.10	7565	136.60	137.20	0.60		1	50	0.04	
		White quartz vein @ 55 deg. with dark greymargins and	7566	137.20	137.05	0.85		1	1	0.03	
		15%, 0.5-3.0 cm,altered wallrock inclusions, trace pyrite.	7567	137.05	139.00	0.95		1	30	0.01	
		138.10 - 138.70									
		30-40% white quartz veins, trace pyrite.									
		141.50 - 142.80									
		Bleached light grey silicified and sheared @ 45 deg. over lower 30 cm,	7568	141.40	142.80	1.40		1	5	0.01	
		1-2% pyrite, 5% quartz.									

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — **Hole: 94 - 02**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
142.80	146.40	**LAMPROPHYRE DYKE**									
		Green to olive green, fine to medium grained, massive mafic									
		lamprophyre dyke with 0.1-1.0 cm dark green chloritic xenoliths,									
		lower contact @ 40 deg.									
146.40	153.30	**PILLOWED BASALT**									
		Green to light grey green, fine grained pillowed basalt with patchy									
		silicification and carbonate alteraion, trace pyrite and									
		<1% carbonate veins.									
		148.13 - 149.55									
		Brecciated with 10-15% light brown carbonate-healed fractures,	7569	148.13	149.55	1.42		1	3	0.01	
		<1% pyrite, 2-3%, 0.5-1.0 cm, white quartz veins.									
153.30	166.10	**BRECCIATED BASALT**									
		Light grey to brown grey brecciated, moderately silicified, weakly									
		carbonated basalt, 10-15% black chloritic breccia matrix.									
166.10	288.10	**MASSIVE to BRECCIATED BASALT**									
		166.10 - 204.10									
		Green to brown grey, very fine grained, massive to weakly brecciated									
		basalt, 3-5%. 0.1-1.0 cm, white carbonate veinlets, strongly calcareous.									
		173.60 - 174.10									
		Yellow brown carbonate altered zone @ 40 deg. with 15 cm wide white	7570	173.60	174.20	0.60		1	20	0.06	
		quartz vein, 1% pyrite.	7571	174.20	174.90	0.70		1	1	0.01	
		174.60 - 174.70									
		Brecciate, brown carbonate, 1% pyrite.									
		198.50 - 204.10									
		Light brown grey silicified basalt with 5% green unaltered									
		fractured patches.									

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — Hole: 94 - 02

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		204.10 - 280.30									
		Fine grained dark green, massive to pillowed basalt, locally carbonated									
		and fractured, weakly magnetic, patchy brown grey fractured									
		carbonate altered sections with traces of pyrite to 265.0 m.									
		215.60 - 217.30	7572	215.60	216.40	0.80				0.01	
		Brown grey, weakly carbonated, massive to fractured @ 70 deg.	7573	216.40	217.30	0.90				Nil	
		220.25 - 222.20									
		25%, 0.5-8.0 cm wde, white albite veins @ 30-60 deg., 1% grey quartz,	7574	220.25	221.20	0.95		1	1	Nil	
		1% brassy pyrite.	7575	221.20	222.20	1.00		1	1	0.01	
		230.90 - 231.10									
		Brown grey carbonate alteration, 2% grey quartz veins, <1% pyrite.	7576	230.90	231.10	1.20		1	2	Nil	
		239.65 - 241.10	7577	239.80	240.60	0.80		1	10	Nil	
		Brown grey carbonated brecciated, 5% dark green chlorite,	7578	240.60	241.20	0.60		1	5	Nil	
		5-10% irregular white quartz albite veinlets, <1% pyrite.									
		242.35 - 248.20	7579	242.35	243.35	1.00		Tr		Nil	
		Brown grey carbonated with quartz + chlorite fractures,	7580	243.35	244.40	1.05		Tr		0.01	
		1-2% quartz, trace pyrite.	7581	244.40	245.25	0.85		Tr		Nil	
		248.20 - 249.55	7482	245.25	246.35	1.10		1		0.01	
		Fine to medium grained green diorite dyke @ 80 deg.	7583	246.35	247.05	0.70		1		Nil	
			7584	247.05	247.60	0.55		Tr		Nil	
			7585	247.60	248.25	0.65				Nil	
		249.35 - 250.00									
		Brown carbonate alteration, 1% pyrite.	7586	249.35	250.00	0.65		1		Nil	
		257.10 - 259.50									
		Fractured, brown grey to green, 5-10% chloritic fractures, <1% pyrite,	7587	257.10	258.10	1.00		1	1	Nil	
		1% albite veins, 1% quartz carbonate veins.	7588	258.10	258.85	0.75		1	1	Nil	
			7588	258.85	259.60	0.75		1	1	0.01	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — **Hole: 94 - 02**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		265.00 - 276.65									
		Dark green relatively unaltered basalt, massive to pillowed,									
		weakly magnetic.									
		276.65 - 280.30	7590	276.75	277.95	1.20		Tr	5	Nil	
		Dark green black, chloritic, fractured, 5-10% white albite veinlets	7591	277.95	279.20	1.25		Tr	10	Nil	
		and clots, <1% brassy dark pyrite.	7592	279.20	280.35	1.15		Tr	5	Nil	
		280.00 - 280.30									
		Brown white , 2.5 cm wide carbonate vein @ 20 deg., trace pyrite.									
		280.30 - 288.10	7593	280.35	281.50	1.15		Tr		Nil	
		Dark black green to grey green chloritic basalt, hard silicified and	7594	281.50	282.50	1.00		Tr		Nil	
		fractured, <1% dark medium grained pyrite in fractures.	7595	282.50	283.50	1.00		Tr		Nil	
		287.60 - 288.10	7596	283.50	284.50	1.00		Tr		0.01	
		Bleached, carbonated, brown grey.	7597	284.50	285.60	1.10		Tr		Nil	
			7598	285.60	286.70	1.10		Tr		0.01	
			7599	286.70	287.70	1.00		Tr		0.01	
288.10	289.05	**LAMPROPHYRE DYKE**									
		Grey green to yellow green, fine to medium grained, mica porphyritic									
		mafic lamprophyre dyke with 1% green carbonate altered matrix,									
		upper contact @ 80 deg., lower contact @ 90 deg.									
		288.34 - 288.52	7600	287.70	288.60	0.90			5	Nil	
		20%, 0.5-1.0 cm, grey white quartz carbonate veins @ 80 deg.	7601	288.60	292.20	0.80			1	Nil	
289.05	291.55	**FRACTURED BASALT**									
		Green to grey green, fine grained, fractured, weakly carbonated basalt.									
291.55	294.00	**LAMPROPHYRE DYKE**									
		Green, medium grained, massive brown mica "biotite" porphyritic									
		lamprophyre dyke @ 25 deg.									

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — Hole: 94 - 02

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
294.00	298.50	**FRACTURED BASALT**	7602	296.27	297.40	1.13		Tr		Nil	
		Light brown grey to green grey, very fine grained, fractured basalt,	7603	297.40	297.95	0.55		Tr		Nil	
		5-10% dark green chloritic fractures, trace pyrite.	7604	297.95	298.45	0.50		Tr		Nil	
298.50	302.85	**PYRITIC CARBONATE ZONE**									
		298.50 - 298.95									
		5-8% fine to medium grained subhedral pyrite in a grey to yellow brown	7605	298.45	299.15	0.70		5	10	0.05	
		sericitic, carbonated basalt/ intrusive, 10-15%, 0.5-2.0 cm wide, dark									
		grey quartz veins @ 30-40 deg. with 15% white carbonate veins,									
		upper contact @ 80 deg.									
		298.95 - 299.30									
		Caramel yellow brown carbonated, silicified and brecciated,	7606	299.15	299.65	0.50		5	8	0.02	
		5% fine grained subhedral pyrite, 8-10% grey quartz.									
		299.30 - 299.65 & 301.22 - 301.45									
		Brown, fine to medium grained altered dyke with 1%, 0.1x2 mm, green									
		green carbonate altered and laths.									
		299.65 - 301.22									
		Black grey, mottled fractured quartz vein with 10-15% brown green to	7607	299.65	300.25	0.60		3		0.02	
		caramel carbonate altered, 0.1-1.0 cm wide, inclusions, 3-5% medium	7608	300.25	300.85	0.60		3		0.03	
		grained pyrite in wallrock fragments, upper contact @ 20 deg.,	7609	300.85	301.45	0.60		3		0.02	
		lower contact very irregular @ 250 deg.									
		301.45 - 302.85									
		Very fine grained silicified, brown grey to light grey brown carbonated	7610	301.45	302.20	0.75		3		0.02	
		fractured and brecciated basalt with 3-5% fine grained pyrite,	7611	302.20	302.90	0.70		3		0.05	
		loer contact @ 35 deg.									

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — Hole: 94 - 02

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
302.85	305.95	**ALTERED BASALT**									
		Light grey green to brown green weakly carbonated, fractured,	7612	302.90	303.85	0.95		1	2	0.01	
		brecciated very fine grained basalt, 1% medium grained pyrite,	7613	303.85	304.80	0.95		1	2	0.01	
		2-3%, 0.5 cm grey quartz carbonate veinlets.	7614	304.80	305.95	1.15		1	2	Nil	
305.95	309.35	**LAMPROPHYRE DYKE**									
		Green medium grained massive mafic dyke with 2-3% brown biotite									
		mica phenocrysts, upper contact @ 40 deg., lower contact @ 30 deg.									
309.35	319.45	**ALTERED BASALT**									
		Brown grey, fractured and brecciated, weakly carbonated and chloritic									
		fine grained basalt.									
		316.30 - 316.95									
		Light grey to brown grey calcareous,finer brecciated zone @ 40 deg.									
		316.50									
		3.0 cm quartz vein @ 90 deg.									
		316.30 - 316.55									
		3-5% brassy dark pyrite veinlets and wisps.	7615	316.30	316.95	0.65		5		Nil	
		316.95 - 318.40									
		Chloritic breccia with 20% dark green chloritic breccia matrix,	7616	316.95	317.95	1.00				Nil	
		5% light green talc.									
		317.95 - 318.15									
		Light green talc carbonate altered zone with 1% fine grained pyrite,	7617	317.95	318.80	0.85		1		Nil	
		upper contact @ 15 deg., lower contact @ 25 deg.									

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — **Hole: 94 - 02**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
319.45	338.20	**PILLOWED BASALT**									
		Dark green, fine grained pillowed basalt with traces of pyrrhotite									
		in dark grey white quartz carbonate selvages, 5 - 50 cm wide grey									
		silicified brecciated zones.									
		325.25 - 325.45									
		Dark grey black brecciated quartz carbonate chlorite zone @ 90 deg.	7618	324.85	325.50	0.65				Nil	
		with trace pyrrhotite.									
		327.85 - 328.95									
		10%, 2.0-4.0 cm wide, dark grey quartz carbonate pillow selvages	7619	327.85	328.95	1.10				Nil	
		with 1% pyrrhotite.									
338.20	355.55	**BRECCIATED PILLOWED BASALT**									
		Dark black green to green with light grey altered sections, relatively hard									
		brecciated pillowed basalt with 1-2% black hard chloritic breccia matrix,	7620	340.35	341.55	1.20		1		Nil	
		<1% brassy pyrite in quartz carbonate pillow selvages.									
		344.60 - 345.20									
		Brecciated, 1% pyrite, trace pyrrhotite.	7621	344.60	345.20	0.60		1		0.01	
		354.50 - 355.55									
		Gradational contact, purple brown grey alteration 0.2 cm wide along	7622	354.50	355.55	1.05				Nil	
		fractures to 100% of the core.									
355.55	403.20	**ALTERED DIORITIC BASALT / MAFIC INTRUSIVE**									
		355.55 - 362.20	7623	355.55	356.35	0.80				Nil	
		Fine to medium grained altered dioritic basalt or mafic intrusive, light	7624	356.35	357.05	0.70				Nil	
		purple brown grey, carbonated and fractured, trace pyrite,	7625	357.05	358.00	0.95				Nil	
		1-2%, 0.1-1.0 cm, quartz carbonate veins @ 20 deg.	7626	358.00	358.80	0.80			5	Nil	
		362.20 - 363.20	7627	358.80	359.35	0.55				Nil	
		Dark green medium grained massive magnetic mafic dyke @ 90 deg.	7628	359.35	360.40	0.95				Nil	
		with altered rock inclusions.	7629	360.40	361.30	0.90				Nil	
			7630	361.30	362.20	0.90				Nil	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — Hole: 94 - 02

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		365.20 - 365.50									
		Medium grained dark green mafic dyke @ 40 deg.									
		363.20 - 403.20	7631	365.50	366.30	0.80		Tr	1	Nil	
		Brecciated purple brown grey carbonated dioritic intrusive, 5-10% dark	7632	366.30	367.10	0.80		Tr	1	0.01	
		green chloritic matrix, 1% 1mm carbonate veinlets, 1% green white									
		quartz carbonate veins, 0.5-1.0 cm wide, at 20-40 deg., trace pyrite.	7633	368.50	369.40	0.90		Tr	1	Nil	
			7634	372.25	373.10	0.85		Tr	1	0.03	
			7635	373.10	373.65	0.55		Tr	1	Nil	
			7636	373.65	374.40	0.80		Tr	1	Nil	
		374.35 - 374.80									
		Medium grained dark green magnetic mafic dyke @ 75 deg.									
		383.00 - 383.85									
		25% brecciated dark green chloritic matrix, trace pyrite.	7637	383.00	383.85	0.85		Tr		Nil	
		388.20 - 390.80									
		More massive, trace fine grained pyrite.	7638	389.80	390.80	1.00		Tr	1	Nil	
		391.90 - 392.65									
		Brecciated, 50% black matrix, trace pyrite.	7639	391.90	392.65	0.75		Tr		Nil	
		392.50									
		2.5 cm wide light green white talc carbonate vein @ 80 deg.									
		397.35 - 397.50									
		Grey quartz carbonate chlorite vein @ 50 deg., 1% pyrite.	7640	397.20	397.80	0.60		1	25	0.01	
403.20	420.05	**ALTERED BASALT / DIORITIC BASALT**									
		Light grey to dark green brecciated weakly carbonated basalt to dioritic									
		basalt, 1-2%, 3.0-10.0 cm, black pyritic graphitic veins with 3-5% pyrite.									
		Lower contact is marked by green white quartz carbonate vein	7641	419.50	420.10	0.60		Tr		0.21	
		at 60 deg. from 419.90 to 420.05 m, trace pyrite.									

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — **Hole: 94 - 02**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
420.05	443.70	**DIORITE**									
		Grey, fine to medium grained, felsic dioritic intrusive, massive to									
		brecciated with a black graphitic chloritic matrix, 1-2% white grey altered									
		carbonate and chlorite veinlets, trace pyrite.									
		428.90 - 429.40									
		Brecciated, 40% black matrix, 3-5% medium grained pyrite	7642	428.85	429.60	0.75		3		Nil	
		in the matrix and breccia fragments.									
		431.45 - 433.75									
		2-3% irregular, 0.1-2.0 cm, white grey quartz carbonate chlorite	7643	431.45	432.45	1.00		Tr	2	Nil	
		veins @ 15-90 deg., trace pyrite.	7644	432.45	433.75	1.35		Tr	2	0.01	
443.70	448.75	**LAMPROPHYRE DYKE**									
		1-3 mm dark green chloritic amphibole and 1-2 mm brown biotite mica									
		phenocrysts in a grey green medium grained talcose ultramafic matrix.									
448.75	461.20	**DIORITE**									
		Fine to medium grained green massive weakly magnetic diorite.									
		453.85 - 454.55									
		Chloritic, dark green, 10-15% black grey quartz carbonate chlorite	7645	453.85	454.55	0.70		3	10	0.01	
		graphite veins, 0.1-2.0 cm wide, @ 0-15 deg.									
		with 5% medium grained pyrite.									
461.20	467.60	**BRECCIATED DIORITE**									
		Light grey green, fine to medium grained brecciated diorite, 20-25%									
		black graphitic matrix, 1% pyrite, 1-2% white quartz carbonate veins.	7646	465.25	466.05	0.80		1	20	0.01	
		465.70 - 466.05 & 467.00 - 467.60	7647	466.05	466.95	0.90		Tr	1	Nil	
		20-25% green white quartz carbonate veins, 1-10 cm wide, trace pyrite.	7648	466.95	467.70	0.75	97	1	25	0.01	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — Hole: 94 - 02

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
467.60	476.10	**GRAPHITIC SEDIMENTS**	7649	467.70	469.05	1.35	95	1	1	0.02	
		Black fine grained massive graphitic sediments, 1-2%, 1-2 mm, pyrite	7650	469.05	470.15	1.10		1		Nil	
		cubes and oval clusters up to to 2.5 cm wide, 1%, 0.5-1 mm, white	7651	470.15	471.40	1.25		1		0.02	
		carbonate veinlets.	7652	471.40	472.50	1.00		1		0.02	
			7653	472.50	473.50	1.30		1		0.01	
			7654	473.50	475.05	1.25		1		Nil	
			7655	475.05	476.10	1.05		1		0.02	
476.10	480.65	**GRAPHITIC SCHIST**									
		Sheared @ 40 deg., 20-25%, 1-40 cm, grey white fractured brecciated	7656	476.10	476.60	0.50	95			0.01	
		quartz carbonate veins @ 40-50 deg., <1%, 1-3 mm, honey-coloured	7657	476.60	477.00	0.40		1	75	Nil	
		sphalerite grains and veinlets, 1% pyrite blebs.	7658	477.00	478.00	1.00		1	20	0.06	
		476.10 - 476.60	7659	478.00	478.60	0.60		1	15	0.05	
		Graphitic fault breccia.	7660	478.60	479.60	1.00		1	5	0.09	
		476.60 - 477.00	7661	479.60	480.65	1.05	95	1	10	0.05	
		75% quartz carbonate veins, 1% pyrite cubes.									
480.65	481.85	**PYRITIC QUARTZ BRECCIA VEIN**									
		Grey to dark grey to brown grey, finely brecciated quartz with	7662	480.65	481.20	0.55	97	3	90	0.07	
		3-5% white carbonate, 2-3% medium grained pyrite.	7663	481.20	481.90	0.70	97	3	90	0.05	
481.85	490.35	**GREEN CARBONATE ZONE**	7664	481.90	482.60	0.65		Tr		Nil	
		Light white green to bright apple green fuchsite carbonated altered	7665	482.60	483.40	0.80		Tr		0.01	
		komatiite with 15-20% irregular, 0.2-2.0 cm, white carbonate quartz	7666	483.40	484.30	0.90		Tr		0.02	
		stockwork, trace pyrite.	7667	484.30	485.10	0.80		Tr		0.02	
		488.30 - 489.00	7668	485.10	486.00	0.90		Tr		0.01	
		Weak foliation @ 50 deg.	7669	486.00	486.90	0.90		Tr		Nil	
		489.3 - 490.35	7670	486.90	487.25	1.35		Tr		0.01	
		Gradational contact grading to white carbonated chloritic	7671	487.25	488.30	1.05		Tr		Nil	
		serpentinized ultramafic.	7672	488.30	490.35	1.05		Tr		0.02	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — **Hole: 94 - 02**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
490.35	641.90	**KOMATIITE**									
		490.35 - 497.10									
		Dark black green to mottled white green, weakly magnetic, carbonated									
		komatiite, 15-20% white carbonate vein stockwork.									
		497.10 - 513.84									
		Dark green black serpentinized carbonated, moderately magnetic,									
		komatiite with 15-20% white quartz carbonate veins,									
		weakly to moderately sheared @ 40-50 deg.									
		501.10 - 501.40									
		Dark brown to white mottled hard, nonmagnetic, mafic dyke,	7673	501.05	501.40	0.35		Tr		0.03	
		upper contact @ 50 deg., lower contact @ 35 deg.									
		513.76 - 513.84	7674	512.30	513.30	1.00		Tr		0.01	
		Green fault gouge @ 50 deg.									
		515.85	7675	514.20	515.00	0.80		Tr	1	Nil	
		3.0 cm fault gouge @ 90 deg.									
		520.60									
		0.5 cm fault gouge @ 25 deg.									
		523.85									
		1.0 cm fault breccia @ 50 deg.									
		524.75									
		1-2 cm fault gouge @ 50-80 deg.									
		526.10									
		2-3 cm broken fault gouge.									
		513.84 - 535.40									
		Weakly to moderately serpentinized ultramafics, weakly to moderately									
		magnetic, 3-55. 0.1-2.0 cm, white quartz carbonate veins.									
		535.40 - 596.10									
		Dark black green, strongly serpentinized and magnetic,									
		1-2% white quartz carbonate veins.									

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake — Hole: 94 - 02

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		550.90 - 551.00									
		2-3 cm spinifex blades indicating tops up hole?									
		564.00 - 567.20									
		Fractures and fault slips @ 0-15 deg., 3-5% white quartz carbonate	7676	564.70	565.70	1.00		Tr	3	Nil	
		veins, trace pyrite cubes.	7677	565.70	566.60	0.90		Tr	3	Nil	
		580.90 - 581.20									
		Brecciated with 1-2 mm fault breccia zones @ 0-25 deg.									
		584.40 - 585.00									
		Short, 1-2 cm, spinifex textures.									
		596.10 - 641.90									
		Polysutured, white mottled carbonated nonmagnetic ultramafics.									
		605.80 - 605.90									
		10%, 1.0-5.0 cm, green fault gouge zones @ 15-70 deg.									
		610.30 - 611.50									
		Medium grained grey massive strongly magnetic mafic dyke	7678	609.60	610.20	0.60		Tr		Nil	
		with <1% medium grained pyrite cubes, upper contact @ 40 deg., lower	7679	610.20	611.00	0.80		1		0.01	
		contact @ 25 deg., 1% fractures with brown carbonate altered haloes.	7680	611.00	611.60	0.60		1	1	0.02	
		613.10 - 613.75	7681	611.60	612.90	1.30				Nil	
		Magnetic dykes cutting in and out of core with contacts @ 25 deg.	7682	612.90	613.65	0.75		1		0.06	
		613.75 - 614.48									
		Magnetic grey intermediate dyke @ 30 deg., 1-2% fractures with 1 mm	7683	613.65	614.60	0.95		1	2	0.05	
		white quartz carbonate veins and 1-2 mm brown pyritic alteration haloes,	7684	614.60	615.30	0.70		Tr		Nil	
		<1% pyrite. lower contact marked by 1.5 cm white quartz vein.									
		621.20 - 621.95									
		Grey intermediate dyke with 2-3% white quartz carbonate veins	7685	620.55	621.10	0.55				Nil	
		with 0.5-1.0 cm brown alteration haloes, 1% medium grained pyrite	7686	621.10	621.95	0.85		1	2	0.07	
		cubes, upper contact marked by 3.0 cm white quartz vein @ 35 deg.,	7687	621.95	622.55	0.60				0.02	
		lower contact @ 45 deg.									
	641.90	E. O. H.									

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Established 1928

Assay Certificate

4W-2253-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-03-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 35 Core samples submitted SEP-22-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7351	0.02	0.01
7352	0.01	-
7353	Nil	-
7354	Nil	-
7355	0.01	-
7356	0.01	-
7357	Nil	-
7358	Nil	-
7359	0.02	-
7360	Nil	-
7361	Nil	Nil
7362	Nil	-
7363	Nil	-
7364	Nil	-
7365	Nil	-
7366	Nil	-
7367	0.01	-
7368	0.02	-
7369	0.14	0.13
7370	0.02	-
7371	Nil	-
7372	Nil	-
7373	Nil	-
7374	Nil	-
7375	Nil	-
7376	0.02	-
7377	Nil	-
7378	0.01	0.01
7379	Nil	-
7380	Nil	-

One assay ton portion used.

Certified by Denis Chartrand

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

Telephone (705) 642-3244 FAX (705) 642-3300

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Swastika Laboratories

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Assaying - Consulting - Representation

Assay Certificate

4W-2253-RA1

Company: **QUEENSTON MINING INC** Date: OCT-03-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 35 Core samples submitted SEP-22-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7381	Nil	-
7382	Nil	-
7383	Nil	-
7384	0.07	0.06
7385	Nil	-

One assay ton portion used.

Certified by Denis Chartre

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

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Assaying - Consulting - Representation

Established 1928

Assay Certificate

4W-2273-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-03-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 41 Core samples submitted SEP-23-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7386	0.04	-
7387	Nil	-
7388	0.01	-
7389	0.01	-
7390	0.05	0.05
7391	0.02	-
7392	Nil	-
7393	0.02	-
7394	0.02	-
7395	0.01	-
7396	Nil	-
7397	Nil	-
7398	Nil	-
7399	0.01	-
7400	0.04	-
7401	0.03	0.03
7402	0.03	-
7403	0.01	-
7404	0.02	-
7405	0.06	-
7406	0.07	0.07
7407	Nil	-
7408	Nil	-
7409	Nil	-
7410	Nil	-
7411	0.01	-
7412	0.01	-
7413	Nil	-
7414	0.01	0.01
7415	0.01	-

One assay ton portion used.

Certified by Denis Thivierge

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

Telephone (705) 642-3244 FAX (705) 642-3300

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Assay Certificate

4W-2273-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-03-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 41 Core samples submitted SEP-23-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7416	0.04	-
7417	Nil	-
7418	Nil	-
7419	Nil	-
7420	0.06	-
7421	0.08	-
7422	0.06	0.05
7423	Nil	-
7424	Nil	-
7425	Nil	-
7426	Nil	-

One assay ton portion used.

Certified by Denis Chrunik

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

Telephone (705) 642-3244 FAX (705) 642-3300

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Assay Certificate

4W-2274-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-04-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 64 Core samples submitted SEP-26-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7427	0.01	0.01
7428	Nil	-
7429	0.02	-
7430	0.02	-
7431	0.04	-
7432	0.02	-
7433	Nil	-
7434	0.02	-
7435	0.08	-
7436	0.03	-
7437	0.01	-
7438	0.02	-
7439	Nil	-
7440	Nil	-
7441	Nil	-
7442	Nil	-
7443	Nil	Nil
7444	Nil	-
7445	Nil	-
7446	0.03	-
7447	0.03	0.03
7448	0.02	-
7449	0.02	-
7450	0.01	-
7451	Nil	-
7452	Nil	-
7453	0.01	-
7454	Nil	-
7455	0.02	-
7456	Nil	-

One assay ton portion used.

Certified by Denis Chartre

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

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Assaying - Consulting - Representation

Assay Certificate

4W-2274-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-04-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 64 Core samples submitted SEP-26-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7487	0.10	0.09
7488	Nil	-
7489	Nil	-
7490	0.02	-

One assay ton portion used.

Certified by Denis Chartre

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Assay Certificate

4W-2317-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-05-94

Project:

Attn: W.Benham

We hereby certify the following Assay of 40 Core samples submitted SEP-28-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7491	0.01	0.01
7492	Nil	-
7493	Nil	-
7494	Nil	-
7495	Nil	-
7496	0.01	-
7497	Nil	-
7498	Nil	-
7499	0.02	-
7500	Nil	-
7501	0.02	-
7502	Nil	-
7503	Nil	-
7504	0.01	0.01
7505	Nil	-
7506	Nil	-
7507	Nil	-
7508	Nil	-
7509	Nil	-
7510	Nil	-
7511	Nil	-
7512	0.02	-
7513	Nil	-
7514	Nil	-
7515	Nil	-
7516	Nil	-
7517	Nil	-
7518	0.02	0.02
7519	Nil	-
7520	Nil	-

One assay ton portion used.

Certified by Denis Chartre

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Assay Certificate

4W-2317-RA1

Company: **QUEENSTON MINING INC** Date: OCT-05-94

Project:

Attn: W.Benham

We hereby certify the following Assay of 40 Core samples submitted SEP-28-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7521	Nil	-
7522	Nil	-
7523	Nil	-
7524	Nil	-
7525	Nil	-
7526	Nil	-
7527	0.04	0.04
7528	Nil	-
7529	Nil	-
7530	Nil	-

One assay ton portion used.

Certified by Denis Chartre

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Assay Certificate

4W-2325-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-04-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 31 Core samples submitted SEP-29-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7531	Nil	-
7532	0.03	0.02
7533	Nil	-
7534	0.03	-
7535	0.01	-
7536	0.01	-
7537	Nil	-
7538	Nil	-
7539	0.03	-
7540	0.08	-
7541	Nil	-
7542	0.03	-
7543	0.04	-
7544	0.08	0.07
7545	0.02	-
7546	Nil	-
7547	0.02	-
7548	Nil	-
7549	0.01	-
7550	Nil	-
7551	0.01	-
7552	Nil	-
7553	0.19	0.21
7554	0.24	0.17
7555	0.05	-
7556	Nil	-
7557	Nil	-
7558	0.01	-
7559	Nil	-
7560	Nil	-
7561	Nil	-

One assay ton portion used.

Certified by Denis Chartre

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Assay Certificate

4W-2349-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-11-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 79 Core samples submitted OCT-03-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7562	0.01	-
7563	Nil	-
7564	Nil	-
7565	0.04	0.04
7566	0.03	-
7567	0.01	-
7568	0.01	-
7569	0.01	-
7570	0.05	0.06
7571	0.01	-
7572	0.01	-
7573	Nil	-
7574	Nil	-
7575	0.01	-
7576	Nil	-
7577	Nil	-
7578	Nil	-
7579	Nil	-
7580	0.01	-
7581	Nil	-
7582	0.01	-
7583	Nil	Nil
7584	Nil	-
7585	Nil	-
7586	Nil	-
7587	Nil	-
7588	Nil	-
7589	0.01	-
7590	Nil	-
7591	Nil	-

One assay ton portion used.

Certified by G. Pilon

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Assay Certificate

4W-2349-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-11-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 79 Core samples submitted OCT-03-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7622	Nil	-
7623	Nil	-
7624	Nil	-
7625	Nil	-
7626	Nil	-
7627	Nil	-
7628	Nil	-
7629	Nil	-
7630	Nil	-
7631	Nil	-
7632	0.01	0.01
7633	Nil	-
7634	0.03	-
7635	Nil	-
7636	Nil	-
7637	Nil	-
7638	Nil	-
7639	Nil	-
7640	0.01	-

One assay ton portion used.

Certified by G. Fehr

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Assay Certificate

4W-2425-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-14-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 33 Core samples submitted OCT-07-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7641	0.20	0.21
7642	Nil	-
7643	Nil	-
7644	0.01	-
7645	0.01	-
7646	0.01	-
7647	Nil	-
7648	0.01	0.01
7649	0.02	-
7650	Nil	-
7651	0.02	-
7652	0.02	-
7653	0.01	-
7654	Nil	-
7655	0.02	-
7656	0.01	-
7657	Nil	-
7658	0.06	-
7659	0.05	-
7660	0.09	-
7661	0.05	-
7662	0.07	0.06
7663	0.05	-
7664	Nil	-
7665	0.01	-
7666	0.02	-
7667	0.02	-
7668	0.01	-
7669	Nil	-
7670	0.01	0.01

One assay ton portion used.

Certified by G. Lebel

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Assay Certificate

4W-2469-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-18-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 14 Core samples submitted OCT-12-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7674	0.01	-
7675	Nil	-
7676	Nil	-
7677	Nil	-
7678	Nil	-
7679	0.01	0.01
7680	0.02	-
7681	Nil	-
7682	0.06	-
7683	0.05	0.05
7684	Nil	-
7685	Nil	-
7686	0.07	0.07
7687	0.02	-

One assay ton portion used.

Certified by G. Leboss

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Assay Certificate

4W-2496-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-20-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 46 Core samples submitted OCT-14-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7688	0.01	-
7689	Nil	-
7690	Nil	-
7691	Nil	-
7692	Nil	-
7693	Nil	Nil
7694	Nil	-
7695	Nil	-
7696	Nil	-
7697	Nil	-
7698	0.02	0.01
7699	Nil	-
7700	0.01	-
7701	Nil	-
7702	0.02	-
7703	0.03	-
7704	0.14	0.11
7705	0.03	-
7706	0.06	-
7707	0.06	-
7708	0.02	-
7709	0.04	-
7710	Nil	-
7711	0.01	-
7712	0.03	-
7713	0.01	-
7714	Nil	-
7715	Nil	-
7716	Nil	Nil
7717	Nil	-

One assay ton portion used.

Certified by G. Thom

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Assay Certificate

4W-2496-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-20-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 46 Core samples submitted OCT-14-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7718	0.05	-
7719	0.28	0.24
7720	0.03	-
7721	0.70	0.73
7722	0.83	0.77
7723	0.32	-
7724	0.06	-
7725	Nil	-
7726	0.15	-
7727	0.19	-
7728	0.43	0.39
7729	0.15	-
7730	0.20	-
7731	0.17	-
7732	0.11	-
7733	0.01	-

One assay ton portion used.

Certified by G. Lebel

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4W-2555-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-24-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 67 Core samples submitted OCT-18-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7734	0.09	-
7735	0.35	0.36
7736	0.63	0.67
7737	0.13	-
7738	0.02	-
7739	0.01	-
7740	0.06	-
7741	Nil	-
7742	Nil	-
7743	0.01	-
7744	Nil	-
7745	Nil	-
7746	0.01	-
7747	0.01	-
7748	0.01	-
7749	0.01	-
7750	Nil	Nil
7751	0.01	-
7752	0.02	-
7753	0.03	-
7754	0.02	-
7755	Nil	Nil
7756	Nil	-
7757	Nil	-
7758	0.01	-
7759	0.01	-
7760	Nil	-
7761	0.01	-
7762	0.01	-
7763	0.01	-

One assay ton portion used.

Certified by G. Gebhardt

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4W-2555-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-24-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 67 Core samples submitted OCT-18-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7764	0.01	-
7765	0.01	-
7766	0.02	-
7767	0.05	0.05
7768	0.01	-
7769	Nil	-
7770	0.01	-
7771	0.01	-
7772	Nil	-
7773	0.01	-
7774	0.02	-
7775	0.12	0.11
7776	0.19	0.27
7777	0.07	-
7778	Nil	-
7779	0.01	-
7780	0.02	-
7781	0.01	-
7782	0.01	-
7783	Nil	-
7784	Nil	-
7785	0.02	-
7786	Nil	-
7787	0.01	-
7788	0.01	-
7789	0.02	-
7790	0.05	0.05
7791	0.05	-
7792	0.01	-
7793	0.05	-

One assay ton portion used.

Certified by G. Thom

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Assay Certificate

4W-2555-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-24-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 67 Core samples submitted OCT-18-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7794	Nil	-
7795	0.02	0.02
7796	0.02	-
7797	0.04	-
7798	0.01	-
7799	0.01	-
7800	0.02	-

One assay ton portion used.

Certified by G. Seb

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Assay Certificate

4W-2589-RA1

Company: **QUEENSTON MINING INC**

Date: OCT-24-94

Project:

Attn: W.Benham

We hereby certify the following Assay of 46 Core samples submitted OCT-19-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7801	0.02	-
7802	0.02	0.02
7803	Nil	-
7804	Nil	-
7805	Nil	-
7806	0.03	-
7807	0.02	0.03
7808	Nil	-
7809	Nil	-
7810	0.01	-
7811	0.01	-
7812	Nil	-
7813	0.01	-
7814	0.03	-
7815	0.01	-
7816	0.01	0.01
7817	0.01	-
7818	Nil	-
7819	0.01	-
7820	0.01	-
7821	Nil	-
7822	0.01	-
7823	0.01	-
7824	0.01	-
7825	0.02	-
7826	Nil	-
7827	Nil	-
7828	0.01	0.01
7829	0.01	-
7830	0.01	-

One assay ton portion used.

Certified by G. Heb

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

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Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

QUEENSTON MINING INC.

1116 - 111 RICHMOND ST. W.
TORONTO, ON
M5H 2G4

Project : VERGRASS
Comments: ATTN: W. BENHAM

Certificate Date: 02-DEC-94
Invoice No. : I9431945
P.O. Number :
Account : MHI

CERTIFICATE OF ANALYSIS A9431945

SAMPLE	PREP CODE		Au g/t
7238	208	234	0.15
7239	208	234	0.42
7240	208	234	0.32
7241	208	234	0.78
7373	208	234	< 0.03
7374	208	234	0.04
7375	208	234	< 0.03
7376	208	234	< 0.03
7377	208	234	< 0.03
7378	208	234	< 0.03
7379	208	234	< 0.03
7380	208	234	< 0.03
7381	208	234	< 0.03
7382	208	234	< 0.03
7383	208	234	< 0.03
7605	208	234	< 0.03
7606	208	234	< 0.03
7607	208	234	< 0.03
7608	208	234	< 0.03
7609	208	234	< 0.03
7610	208	234	< 0.03
7611	208	234	< 0.03
7721	208	234	0.68
7722	208	234	0.70
7723	208	234	0.25
7724	208	234	< 0.03
7725	208	234	< 0.03
7726	208	234	0.10
7727	208	234	0.13
7728	208	234	0.44
7729	208	234	0.09
7730	208	234	0.14
7731	208	234	0.11
7732	208	234	0.05

CERTIFICATION:

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
5175 Timberlea Blvd., Mississauga,
Ontario, Canada L4W 2S3
PHONE: 905-624-2806

QUEENSTON MINING INC.

1116 - 111 RICHMOND ST. W.
TORONTO, ON
M5H 2G4

Project : VERGRASS
Comments: ATTN: W. BENHAM

Page Number :1
Total Pages :1
Certificate Date: 02-DEC-94
Invoice No. : I9431945
P.O. Number :
Account : MHI

CERTIFICATE OF ANALYSIS A9431945

SAMPLE	PREP CODE		Au g/t
7238	208	234	0.15
7239	208	234	0.42
7240	208	234	0.32
7241	208	234	0.78
7373	208	234	< 0.03
7374	208	234	0.04
7375	208	234	< 0.03
7376	208	234	< 0.03
7377	208	234	< 0.03
7378	208	234	< 0.03
7379	208	234	< 0.03
7380	208	234	< 0.03
7381	208	234	< 0.03
7382	208	234	< 0.03
7383	208	234	< 0.03
7605	208	234	< 0.03
7606	208	234	< 0.03
7607	208	234	< 0.03
7608	208	234	< 0.03
7609	208	234	< 0.03
7610	208	234	< 0.03
7611	208	234	< 0.03
7721	208	234	0.68
7722	208	234	0.70
7723	208	234	0.25
7724	208	234	< 0.03
7725	208	234	< 0.03
7726	208	234	0.10
7727	208	234	0.13
7728	208	234	0.44
7729	208	234	0.09
7730	208	234	0.14
7731	208	234	0.11
7732	208	234	0.05

CERTIFICATION:

QUEENSTON MINING INC.
SUMMARY DRILL LOG

VG-

PROPERTY: VIGRASS LAKE						HOLE: 94-03
TOWNSHIP: Otto	DATE LOGGED : October 12-21, 1994	EASTING: 110+00 m	Depth	Method	Azimuth	Dip
CLAIM No.: 842493, 544545	LOGGED BY : W. Benham	NORTHING: 89+25 m	Collar	Compass	360	-60
STARTED: October 11, 1994	DRILLED BY : Heath & Sherwood	LENGTH: 559.61 m	61 m	Acid		-59
COMPLETED: October 20, 1994	CORE LOCATION: Upper Canada	CORE SIZE: NQ	122 m	"		-59
SIGNED BY: W. Benham		(Note: Metric Grid)	183 m	"		-60
			244 m.	"		-61
			305 m	"		-62
PURPOSE: To test 88-8 gold-carbonate zone at the 400 metre level 295 m to the east of hole 94-01.			366 m	"		-62
			427 m	"		-61
COMMENTS: Intensity of alteration in the 88-8 zone decreases at depth, weakly anomalous gold mineralization			488 m	"		-61
was intersected 200 m to the south of the 88-8 zone, from 142.00 to 148.30 m, 0.288 g/t Au / 6.30 m						

METRES		SUMMARY LOG		ASSAY SUMMARY			
From	To	Lithology	Mineralization	From	To	Feet	Au g/t
0.00	1.52	Overburden					
1.52	65.80	Pillowed Basalt					
65.80	68.50	Feldspar Porphyry					
68.50	114.10	Pillowed Basalt					
114.10	119.40	Gabbro / Basalt	15% pyrite, 5% quartz	112.35	112.70	0.35	0.140
119.40	130.35	Pillowed Basalt to Brecciated Basalt					
130.35	142.00	Lamprophyre and Syenite Dykes	Felsic dyke, <1% pyrite	138.65	139.55	0.90	0.260
142.00	148.30	Altered Pyritic Sediments / Iron Formation	3-15% pyrite, 5-15% quartz veins	142.00	148.30	6.30	0.288
148.30	158.00	Gabbro		including			
158.00	162.05	Gabbro / Altered Sediments		142.00	143.70	1.70	0.616
162.05	170.95	Gabbro / Diorite	1-2% pyrite, 2-3% quartz veins	160.25	162.05	1.80	0.359
170.95	282.60	Pillowed Basalt / Basalt					
282.60	366.70	Pillowed Basalt / Altered Basalt					
366.70	397.10	Pillowed Basalt	1% pyrite, 10-15% qtz-carb veins.	375.60	376.95	1.35	0.170
397.10	423.60	Altered Mafic Intrusive / Basalt					
423.60	435.20	Altered Mafic Intrusive					
435.20	438.40	Breccia Zone / Altered Intrusive ?					

QUEENSTON MINING INC.
SUMMARY DRILL LOG

METRES		SUMMARY LOG		ASSAY SUMMARY			
From	To	Lithology	Mineralization	From	To	Feet	Au g/t
438.40	449.83	Lamprophyre Dyke					
449.83	451.50	Graphitic Sediments					
451.50	452.52	Cherty Sediments					
452.52	456.90	Brown to Green Carbonate Zone					
456.90	559.61	Komatiite					
	559.61	E. O. H.					

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake **Hole: 94 - 03**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
0.00	1.52	**OVERBURDEN**									
1.52	65.80	**PILLOWED BASALT**									
		1.52 - 3.70									
		Basalt, broken core, 50% recovery.									
		3.70 - 35.90									
		Grey to grey green pillowed basalt with lighter grey brecciated	7688	5.30	6.20	0.90		Tr	2	0.01	
		silicified sections with chloritic fractures, trace pyrite and									
		1-2% quartz carbonate veins.	7689	9.60	10.40	0.80			2	Nil	
		11.05 - 12.30									
		Light purple grey, brecciated and silicified with weakly sheared	7690	11.05	12.30	1.25		Tr	1	Nil	
		contacts @ 50 deg.	7691	12.30	13.35	1.05				Nil	
		15.70 - 16.95									
		Grey, carbonated, 1-2%, 1.0-2.0 cm, white quartz carbonate	7692	15.70	16.95	1.25		1	2	Nil	
		veins @ 20 deg., <1% pyrite + pyrrhotite in pillow selvages.									
		16.95 - 17.40									
		5% sulphide blebs up to 2.0 cm wide, 50% pyrrhotite and 50% pyrite	7693	16.95	17.40	0.45		5	1	Nil	
		with the pyrrhotite zoned around the pyrite.									
		31.15 - 32.60									
		Light brown grey, carbonated, bleached and fractured, 3-5% white grey	7694	31.15	31.95	0.80		1	3	Nil	
		quartz carbonate veins, 0.5-5.0 cm wide, at 40-50 deg.,	7695	31.95	32.75	0.80		1	5	Nil	
		<1% pyrrhotite blebs and disseminated.									
		35.00 - 35.90									
		Brown grey, 10% grey white quartz carbonate veins @ 25-40 deg.,	7696	35.00	36.00	1.00		1	10	Nil	
		1% fine grained pyrite.									
		35.90 - 65.80									
		Dark green pillowed basalt with 5%, 5.0-10.0 cm wide, bleached grey									
		carbonate altered sections. Disseminated magnetite and trace to 3%									
		pyrite in chloritic pillow selvages.									

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DIAMOND DRILL LOG

Property: Vigrass Lake **Hole: 94 - 03**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		44.60 - 44.80									
		Grey quartz carbonate vein @ 0-30 deg., 3-5% pyrrhotite.	7697	44.50	44.80	0.30		4	30	Nil	
		62.65 - 62.80									
		2-3% pyrite and 2-3% magnetite in pillow selvages.	7698	62.58	63.10	0.52		1		0.02	
		64.80 - 65.80									
		1% pyrite and magnetite in 1-5 mm quartz carbonate veinlets.	7699	64.80	66.05	1.25		1		Nil	
65.80	68.50	**FELDSPAR PORPHYRY DYKE**									
		Dark grey feldspar porphyritic dyke with 20-25% white subhedral to									
		euhedral feldspar plagioclase phenocrysts in a fine to medium grained									
		grey felsic matrix with 1-2% chlorite, contacts @ 60 deg., finer grained									
		and weakly porphyritic over a width of 35 cm at the upper contact									
		and 15 cm at the lower contact.									
68.50	114.10	**PILLOWED BASALT**									
		Dark green grey pillowed basalt with chloritic , carbonate, quartz and									
		magnetite in pillow selvages, weakly fractured.									
		68.50 - 69.65									
		<1% pyrite, 5-10% feldspar porphyry dykelets.	7700	68.40	69.65	1.25		1	1	0.01	
		71.00 - 71.07									
		Quartz carbonate breccia vein @ 70 deg. with bleached wallrock	7701	70.55	71.20	0.65		Tr	10	Nil	
		contacts over widths of 5-10 cm, trace pyrite.									
		71.07 - 71.70									
		Dark grey massive mafic dyke, upper contact marked by quartz vein									
		@ 70 deg., lower contact @ 50 deg.									
		80.30 - 81.00 & 81.55 - 82.10	7702	80.30	81.00	0.70		1		0.02	
		Chloritic pyritic pillow selvages 2.0-3.0 cm wide with 1-2% disseminated									
		magnetite and 1% pyrite.	7703	81.55	82.00	0.45		1		0.03	

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METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		82.60 - 83.90									
		Light purple grey, carbonated, chloritic fractures, 1% pyrite, 2-3% white	7704	82.60	83.35	0.75		1	2	0.13	
		grey quartz carbonate veins.	7705	83.35	84.05	0.70		1	2	0.03	
		83.05 - 83.25									
		Weakly sheared @ 50 deg., 3-5% pyrite, 1% magnetite.									
		93.10 - 95.00									
		Fine to medium grained, massive dark black green mafic dyke,									
		irregular upper contact @ 30 deg., lower contact @ 15 deg.									
		95.40 - 97.10									
		Fractured, brecciated to weakly sheared @ 15-20 deg., 3-5% yellow	7706	95.40	96.25	0.85		3	5	0.06	
		green and brown epidote and carbonate alteration, 3-5% white grey	7707	96.25	97.20	0.95		1	2	0.06	
		irregular quartz veins, 2-3% pyrite along fractures and vein contacts.									
		99.50 - 99.90									
		Barren quartz carbonate breccia vein @ 30 deg. with rock inclusions.									
		101.20 - 102.32									
		Light purple grey fractured carbonated basalt, brecciated to weakly	7708	101.20	101.70	0.50		1	1	0.02	
		sheared @ 30 deg. over lower 0.5 m, 2-3% white grey quartz carbonate	7709	101.70	102.35	0.65				0.04	
		veins, 2-3% fine to medium grained pyrite.									
		105.30 - 106.50									
		Bleached light purple grey carbonated, weak foliation @ 55 deg.	7710	105.30	106.60	1.20		Tr	1	Nil	
		trace pyrite, 1-2% white grey quartz carbonate veins.									
		107.20 - 107.70									
		Light grey, bleached carbonated, weakly to moderately sheared	7711	107.20	107.70	0.50		1	2	0.01	
		@ 50-55 deg., 2-3% white quartz carbonate veins, 1% pyrite.									
114.10	116.00	**GABBRO**									
		Dark green, fine grained, massive gabbro dyke, upper contact									
		@ 15 deg. with 1% pyrite, lower contact @ 15 deg.									

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DIAMOND DRILL LOG

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METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
116.00	117.80	**BASALT**									
		Green, fractured and brecciated basalt, 1% fine to medium grained	7712	116.00	116.95	0.95		3	3	0.03	
		pyrite, 3-5% white quartz veins, lower contact marked by 3.0 cm wide									
		brecciated white grey quartz vein @ 25 deg. with 30% carbonated									
		wallrock inclusions, 3-5% pyrite.									
117.80	119.40	**GABBRO / DIORITE**									
		Dark grey green medium grained massive dioritic to gabbroic dyke									
		lower contact @ 20 deg., 1%, 0.2-2.0 cm white quartz carbonate veins									
		@ 15-25 deg. with trace pyrite cubes.									
119.40	130.35	**PILLOWED to BRECCIATED BASALT**									
		119.40 - 127.80									
		Dark green pillowed basalt, 1-2% quartz carbonate veins and									
		epidote-filled fractures.									
		127.80 - 130.35									
		Green to light green brecciated basalt, 1-2% dark pyrite in 1-2 mm	7713	127.80	128.70	0.90		1	2	0.01	
		veinlets @ 70-30 deg., 1-2%, 0.2-1.0 cm quartz carbonate chlorite	7714	128.70	129.70	1.00		1	1	Nil	
		veins @ 0-30 deg.	7715	129.70	130.35	0.65		1	1	Nil	
		127.90 - 129.45									
		0.5-1.0 cm quartz carbonate chlorite pyrite vein @ 0-5 deg., 1% pyrite,									
		trace red potassic alteration, lower contact @ 50 deg. marked by									
		3.0-4.0 cm epidote pyrite quartz and red feldspar altered bands.									
130.35	132.15	**LAMPROPHYRE DYKE**									
		Dark green black coarse grained biotitic lamprophyre dyke.									

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DIAMOND DRILL LOG

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METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
132.15	133.45	**FELDSPAR PORPHYRITIC SYENITE**									
		Red to grey red feldspar porphyritic syenite with 10-15% 1-3 mm white									
		to green white feldspar phenocrysts and 3-5% dark black green	7716	132.10	133.50	1.40		1	1	Nil	
		amphibole phenocrysts, 1% finely disseminated pyrite, upper contact									
		poorly defined and irregular @ 50 deg., chilled lower contact @ 50 deg.									
133.45	136.65	**LAMPROPHYRE DYKE**									
		Dark green black coarse grained biotitic lamprophyre dyke with 1-2%,									
		1-5 mm white to orange veins, weakly foliated @ 0-20 deg.									
		lower contact @ 90 deg.									
136.65	139.55	**FELSIC DYKE**									
		Fine grained, green grey felsic dyke with 1% 0.5 mm light lucoxene	7717	136.65	137.70	1.05		1	3	Nil	
		flecks, massive to fractured with 2-3%, 1-5 mm, quartz carbonate veins	7718	137.70	138.65	0.95		1	1	0.05	
		with 1.0-2.0 cm pyritic brown carbonate alteration haloes, strongly	7719	138.65	139.55	0.90		Tr		0.26	
		calcareous, <1% pyrite, 2.0-4.0 cm wide grey white fractured quartz									
		vein at upper contact with trace pyrite, sheared lower contact @ 15 deg.									
139.55	142.00	**LAMPROPHYRE DYKE**									
		Dark green to grey green biotitic lamprohyre dyke									
		141.00 - 142.00									
		Sheared @ 40 deg.	7720	140.80	142.00	1.20		Tr		0.03	

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METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
142.00	148.30	**ALTERED PYRITIC SEDIMENTS / IRON FORMATION**	7721	142.00	142.60	0.60		3	1	0.72	
		Green to grey to dark grey, massive to finely laminated and sheared	7722	142.60	143.15	0.55		5	1	0.80	
		@ 45 deg., fine grained sediments with 1-2 mm magnetite beds.	7723	143.15	143.70	0.55		5	1	0.32	
		142.00 - 144.85	7724	143.70	144.20	0.50		3	1	0.06	
		Variable 45-50% brown carbonate alteration with 5-10% red brown	7725	144.20	144.65	0.45		5	1	Nil	
		grey potassic altered quartz, <1%, 0.1-2.0 cm white grey fractured	7726	144.65	145.10	0.45		15		0.15	
		quartz veins, 3-5% fine to mediumn grained disseminated pyrite	7727	145.10	145.50	0.40		15		0.19	
		144.85 - 146.10	7728	145.50	146.10	0.60		15		0.41	
		Fractured grey to purple grey white quartz vein with 20-25% light green	7729	146.10	146.70	0.60		5	15	0.15	
		brown carbonate altered wallrock fragments, irregular reddish brown	7730	146.70	147.30	0.60		5	15	0.20	
		hematite/potassic? alteration, 10-15% fine to medium grained pyrite.	7731	147.30	147.75	0.45		8	15	0.17	
		146.10 - 148.30	7732	147.75	148.30	0.55		5	15	0.11	
		Sheared @ 45 deg., dark grey sediment with 1% magnetite beds.	7733	148.30	149.14	1.15				0.01	
		15-20% white to grey brown carbonate alteration, 15-20% white to grey,									
		0.5-5.0 cm wide, fractured grey white quartz veins and lenses									
		@ 45-70 deg., 5-8% pyrite.									
148.30	158.00	**GABBRO**									
		Green to dark green massive pyroxene gabbro, 1%, 1-2 mm quartz									
		carbonate veinlets, trace pyrite.									
158.00	162.05	**GABBRO / SEDIMENTS**									
		Fine grained grey magnetic sediments intruded by dark green									
		fine grained gabbro.									
		159.60 - 159.35, 160.10 - 160.55, 160.60 - 160.70 & 161.00 - 161.90	7734	159.60	161.25	0.65		1		0.09	
		Fine grained grey moderately to strongly magnetic sediments,	7735	161.25	160.80	0.55		1		0.36	
		sheared @ 30-40 deg., 1-2% fine to medium grained pyrite.									
		160.25 - 161.35									
		5-10% green brown white carbonate quartz alteration in brecciated,	7736	160.80	161.35	0.55		2	5	0.65	
		magnetic to nonmagnetic sediments with 2-3% pyrite.	7737	161.35	162.05	0.70		2	5	0.13	

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DIAMOND DRILL LOG

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METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
162.05	170.95	**GABBRO / DIORITE**									
		Fine to medium grained massive diorite to gabbro, lower contact is									
		marked by a 1.0 cm white quartz carbonate vein @ 80 deg.									
170.95	176.15	**PILLOWED BASALT**									
		Green to dark black green, fine grained pillowed basalt, 2-3% white									
		0.1-2.0 cm quartz carbonate veins.									
		175.55 - 176.30									
		Chloritic, 2-3% white quartz carbnate veins 0.1-1.0 cm wide with pyritic	7738	175.50	176.30	0.75		2	3	0.02	
		green epidote alteration haloes, 1-2% pyrite.									
176.15	177.40	**LAMPROPHYRE DYKE**									
		Dark grey black coarse grained biotitic lamprophyre dyke, weakly									
		foliated @ 40 deg.									
177.40	282.60	**PILLOWED to MASSIVE BASALT**									
		177.40 - 220.3									
		Green to dark green fractured pillowed basalt, locally light grey									
		carbonated and brecciated, 2-3%, 1-3 mm, white carbonate veins.									
		184.25 - 185.45									
		Chloritic pillow breccia with 2-3% brown carbonate, 2-3% grey white	7739	184.25	185.45	1.20		1	2	0.01	
		brecciated quartz carbonate veins, 1-2% medium grained pyrite.									
		195.80 - 196.50 & 196.05 - 196.45									
		Brecciated, 30-35% light yellow brown carbonate, 10-15% grey white	7740	195.80	196.50	0.70		5	10	0.06	
		quartz carbonate, 5-8% disseminated pyrite.									
		206.00 - 209.35									
		Green grey, fractured, weakly carbonate altered, trace pyrite.	7741	206.00	207.20	1.20		Tr		Nil	
		207.20 - 208.80	7742	207.20	207.95	0.75		Tr	2	Nil	
		1-2%, 1-5 mm purple grey quartz carbonate veinlets.	7743	207.95	208.80	0.85		Tr	2	0.01	

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METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		220.30 - 230.70									
		Dark green to grey, fine to medium grained massive basalt									
		with 1-2% altered fractures.									
		230.70 - 282.60									
		Fine grained dark green pillowed basalt with 0.05-1.0 m wide									
		light grey altered sections.									
		241.00 - 252.50									
		Massive, fine grained, very hard dark green basalt, 1%, 1.0-10.0 cm,	7744	254.20	254.80	0.60		Tr	40	Nil	
		quartz carbonate veins with traces of pyrite.									
		261.20 - 261.50									
		3-5% pyrrhotite in 2.0 cm wide pillow selvages.	7745	261.20	262.50	0.30				Nil	
282.60	366.70	**PILLOWED BASALT / ALTERED BASALT**									
		Dark green to light brown grey to grey, fractured fine grained altered									
		pillowed basalt, 30-40% altered.									
		283.35 - 284.00									
		Dark grey to black, poorly bedded graywacke, bedding @ 55 deg.	7746	282.60	284.10	1.50		1	2	0.01	
		1% pyrite in 1 mm fractures, 2-3%, 0.5-2.0 cm, grey white quartz									
		carbonate veins.									
		286.20 - 286.75									
		Dark green chloritic medium grained diorite, 1% pyrite.	7747	286.00	286.90	0.90		1		0.01	
		291.67 - 292.03									
		Chloritic pillow selvages with 1-2% pyrite.	7748	291.67	292.10	0.43		1		0.01	
		308.20									
		1.0 cm grey twisted quartz vein with 1% pyrite and 1.0-2.0 cm chloritic	7749	308.10	308.55	0.45		1	1	0.01	
		margins or pillow selvages.									
		311.00 - 311.95	7750	311.00	311.95	0.95		1		Nil	
		Chloritic dark green, 1% medium grained pyrite in pillow selvages.	7751	311.95	312.90	0.95		Tr	5	0.01	

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METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		312.27 - 312.85									
		Light purple grey carbonated, 5-10% grey white quartz carbonate veins,									
		trace pyrite.									
		324.77 - 326.45									
		Grey to dark grey biotitic lamprophyre dyke @ 50 deg.	7752	324.60	325.20	0.60		1	2	0.02	
		Basalt is bleached and pyritic over 10 cm at upper contact and	7753	325.20	326.10	0.90		Tr	1	0.03	
		over 30 cm at lower contact, 1% pyrite.	7754	326.10	326.80	0.70		1	10	0.02	
		326.10 - 326.48									
		5-10% white quartz carbonate veins, <1% pyrite.									
		331.70 - 349.80									
		Light grey green, fractured and brecciated									
		332.70 - 333.20									
		Two fault slips 2.0 cm apart @ 0-15 deg.									
		333.80 - 333.92									
		Black to dark grey, chloritic quartz breccia vein @ 60 deg., trace pyrite.	7755	333.60	334.15	0.55		Tr		Nil	
		349.80 - 358.50									
		Green to pale green, brecciated and carbonated pillowed basalt.	7756	349.40	350.45	1.05		Tr	1	Nil	
		349.70 - 350.10 & 352.55 - 353.20									
		Trace pyrite in pillow selvages.	7757	352.35	353.40	1.05		Tr	3	Nil	
		358.50 - 366.70									
		Brecciated altered weakly sericitic carbonated basalt, <1% pyrite,	7758	358.44	359.90	1.46		Tr	15	0.01	
		3-5% white carbonate veinlets and gashes, 1% grey quartz lenses.	7759	359.90	360.85	0.95		Tr	1	0.01	
		358.50 - 359.80	7760	360.85	361.60	0.75		1	3	Nil	
		Chloritic fault breccia @ 10 deg.	7761	361.60	362.75	1.15				0.01	
		364.90 - 365.30	7762	362.75	363.95	1.20				0.01	
		Black brecciated quartz, chlorite and altered rock fragments,	7763	363.95	364.90	0.95				0.01	
		trace pyrite.	7764	364.90	365.30	0.40				0.01	
			7765	365.30	366.10	0.80				0.01	
			7766	366.10	367.15	1.05				0.02	

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METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
366.70	397.10	**PILLOWED BASALT**	7767	369.70	370.40	0.70		1	1	0.05	
		Pale green to green fractured pillowed basalt with 3-5% white	7768	370.40	371.00	0.60		Tr	1	0.01	
		quartz carbonate veinlets.	7769	371.00	371.70	0.70		Tr	1	Nil	
		369.80 - 369.90	7770	371.70	372.40	0.70		1	3	0.01	
		10% white grey quartz carbonate veins up to 1.0 cm wide with brown	7771	372.40	373.25	0.85		1	5	0.01	
		carbonate altered wall rock margins.	7772	373.25	374.10	0.85		1	5	Nil	
		370.23 - 370.28	7773	374.10	374.80	0.70		1	1	0.01	
		Chloritic pillow selvage @ 60 deg. with 1% pyrite.	7774	374.80	375.60	0.80		1	1	0.02	
		371.70 - 379.95	7775	375.60	376.40	0.80		1	2	0.12	
		Brecciated, chloritic, 10-15% white quartz carbonate veinlets,	7776	376.40	376.95	0.55		1	15	0.23	
		1% medium grained euhedral pyrite in chloritic pillow selvages.	7777	376.95	377.85	0.70		1	15	0.07	
		382.10 - 383.25 & 383.40 - 384.20	7778	377.85	378.65	0.80		1	10	Nil	
		3-5%, 0.1-1.0 cm, white quartz carbonate veins with weakly brown	7779	378.65	379.45	0.80		1	1	0.01	
		carbonated wallrock contacts, 1% medium grained pyrite.	7780	379.45	379.95	0.50		1	3	0.02	
		385.60 - 388.80	7781	379.95	380.75	0.80		Tr	1	0.01	
		Weak to moderate brown carbonate alteration, chloritic fractures,	7782	380.75	381.90	1.15		Tr	1	0.01	
		<1% euhedral pyrite, 1-2% white grey quartz carbonate veins.	7783	381.90	382.40	0.50		1	2	Nil	
		388.80 - 389.73	7784	382.40	383.30	0.90		Tr	1	Nil	
		White green quartz chlorite vein with 1-2%, 1-3 mm, euhedral pyrite,	7785	383.30	384.20	0.90		1	5	0.02	
		upper contact @ 20 deg.	7786	384.20	385.10	0.90		Tr	1	Nil	
		389.73 - 389.90	7787	385.10	385.90	0.80		Tr	1	0.01	
		30% brown carbonate alteration, chloritic, 2-3% fine grained pyrite,	7788	385.90	386.90	1.00		Tr	1	0.01	
		lower contact marked by a chloritic fracture @ 50 deg.	7789	386.90	387.70	0.80		Tr	1	0.02	
		389.90 - 392.70	7790	387.70	388.15	0.45		Tr	1	0.05	
		Fine to medium grained grey green to green mafic dyke, trace pyrite	7791	388.15	388.80	0.65		Tr	1	0.05	
		to 390.7 m.	7792	388.80	389.35	0.55		Tr		0.01	
		392.70 - 397.10	7793	389.35	389.95	0.60		Tr		0.05	
		Weakly carbonated green to pale green basalt.	7794	389.95	390.70	0.75		Tr		Nil	

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Property: Vigrass Lake — Hole: 94 - 03

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
397.10	423.60	**ALTERED MAFIC INTRUSIVE / BASALT**	7795	397.10	397.85	0.75		1		0.02	
		Very fine grained to medium grained, light brown grey, grey, green grey	7796	397.85	398.50	0.65		1		0.02	
		to purple grey, variably silicified and carbonated, fractured and	7797	398.50	399.05	0.55		1		0.04	
		brecciated alterd dioritic intrusive or basalt, trace to 3% pyrite,	7798	399.05	399.75	0.70		1		0.01	
		3-5%, 0.5-2.0 cm, white quartz albite veins.	7799	399.75	400.65	0.90		1		0.01	
		400.7-401.2	7800	400.65	401.25	0.60		Tr		0.02	
		Chloritic quartz vein @ 50 deg., 1% green carbonate, 1% sericite,	7801	401.25	402.20	0.95		2		0.02	
		<1% pyrite.	7802	402.20	402.95	0.75		2		0.02	
		403.80 - 404.60	7803	402.95	403.80	0.85		Tr		Nil	
		Moderately sheared @ 30-45 deg., 1% pyrite.	7804	403.80	404.50	0.70		1		Nil	
		405.40 - 405.90	7805	404.50	405.20	0.70		Tr		Nil	
		Light grey fault breccia with 0.1-2.0 cm rock fragments	7806	405.20	406.00	0.80		1		0.03	
		in 5-10% crushed rock fault gouge, 1% pyrite.	7807	406.00	406.90	0.90		2		0.03	
		406.90 - 407.65	7808	406.90	407.65	0.75		2		Nil	
		Brecciated with 20% hard black matrix, 0.2-4.0 cm subangular	7809	407.65	408.45	0.80		1		Nil	
		light grey bleached roc fragments, 1-2% pyrite.	7810	408.45	409.25	0.80		Tr		0.01	
		407.95 - 408.45	7811	409.25	410.20	0.95		Tr		0.01	
		Grey white quartz albite vein @ 40 deg., 1-2% green carbonate,	7812	410.20	411.00	0.80		Tr		Nil	
		<1% pyrite.	7813	411.00	412.00	1.00		Tr		0.01	
		418.85 - 420.65	7814	412.00	413.15	1.15		Tr		0.03	
		Green medium grained massive dioritic to gabbroic dyke @ 60 deg.	7815	413.15	414.15	1.00		Tr		0.01	
		420.65 - 423.60	7816	414.15	415.75	1.10		Tr		0.01	
		Light grey to purple grey, silicified, carbonated, fractured, brecciated	7817	415.75	416.20	0.95		Tr		0.01	
		altered intrusive ?, upper contact @ 70-90 deg.,	7818	416.20	416.80	0.60		Tr		Nil	
		lower contact @ 10 deg. from 423.15 to 423.60 m.	7819	416.80	417.75	0.95		Tr		0.01	
			7820	417.75	418.85	1.10		Tr		0.01	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake **Hole: 94 - 03**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
423.60	435.20	**ALTERED MAFIC INTRUSIVE ?**	7821	420.65	421.60	0.95		Tr		Nil	
		Dark green to pale white green medium grained diorite? with	7822	421.60	422.60	1.00		Tr		0.01	
		3-5%,1-2 mm, chloritic amphibole phenocrysts, weakly sericitic,	7823	422.60	423.60	1.00		Tr		0.01	
		3-5%, 0.1-2.0 cm, white quartz carbonate veins, trace pyrite.									
			7824	426.65	427.60	0.95		Tr	3	0.01	
			7825	427.70	428.25	0.65		Tr	3	0.02	
435.20	438.40	**BRECCIA ZONE**	7826	434.20	435.15	0.95		Tr	5	Nil	
		Fine grained light cream green grey, 0.5-10.0 cm (avg. 3.0 cm),	7827	435.15	436.15	1.00		Tr		Nil	
		angular fragments in a 3-5% dark green brown grey matrix, trace pyrite,	7828	436.15	437.15	1.00		Tr		0.01	
		upper contact sheared @ 30 deg.	7829	437.15	437.70	0.55		Tr		0.01	
		434.20 - 435.20 & 438.40 - 439.60	7830	437.70	438.40	0.70		Tr		0.01	
		5-10% fractured quartz carbonate veins.	7831	438.40	439.60	1.20		Tr	5	0.01	
438.40	449.83	**LAMPROPHYRE DYKE**									
		438.40 - 449.83									
		Pale green to grey green massive lamprophyre dyke with 1%, 1-2 mm,									
		leucoxene grains and green mauve white talc slips.									
		443.55 - 445.1	7832	443.55	444.45	0.90		1	2	0.02	
		Weakly sheared @ 25 deg., 2% pyritic, 1-2 mm, quartz carbonate veins.	7833	444.45	445.15	0.70		1	2	0.01	
		449.40 - 449.83									
		Fine grained brown carbonated silicified ,0.2-1.0 cm, rock and quartz	7834	449.05	449.55	0.50		Tr	1	0.01	
		subangular fragments in a 5-10% grey quartz matrix, trace pyrite,	7835	449.55	449.85	0.30		Tr	10	0.03	
		sharp contacts @ 70 deg.									
449.83	451.50	**GRAPHITIC ARGILLITE**									
		Fine grained hard black graphitic argillite, weakly bedded/foliated	7836	449.85	450.55	0.70	55	5	20	0.04	
		@ 70 deg., 10-20% grey quartz lenses, fragments, breccia veins and	7837	450.55	451.00	0.45		Tr	1	0.06	
		veins, 3-5% fine grained pyrite disseminated and 0.2-1.5 cm blebs.	7838	451.00	451.50	0.50		5	10	0.05	

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake **Hole: 94 - 03**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
451.50	452.52	**CHERT**									
		Very fine grained, brecciated finely bedded cherty siliceous sediment,									
		bedding @ 70 deg., 30-40% brown carbonate alteration, 1-2%, 1-5 mm,									
		black graphitic veins in crosscutting fractures, 2-3% fine grained pyrite.									
		451.50 - 452.15									
		5-10% grey quartz lenses.	7839	451.50	452.15	0.65		3	10	0.01	
		452.15 - 452.52									
		Brecciated, brown pink potassic alteration, 10-15% blue grey quartz,	7840	452.15	452.55	0.40		5	15	0.03	
		3-5% pyrite.									
452.52	456.90	**BROWN to GREEN CARBONATE**									
		Weakly to moderately silicified and carbonated ultramafic with									
		30-40% light yellow brown carbonate and 20-30% pale green carbonate,									
		10-15% irregular grey white quartz carbonate veinlets, trace pyrite,									
		massive to moderately foliated @ 80-90 deg.	7841	452.55	453.40	0.85		Tr	3	0.01	
		452.85 - 453.40, 453.57 - 453.80, 453.90 - 454.15 & 454.53 - 454.90	7842	453.40	454.15	0.75		Tr	3	0.01	
		Altered carbonated light green brown dykes @ 80-90 deg. with	7843	454.15	455.00	0.85		Tr	2	0.01	
		0.1-2.0 cm altered rectangular and tabular crystals in a silicified,	7844	455.00	455.90	0.90		Tr		0.01	
		sericitic matrix? possibly strongly altered felsite dykes?,	7845	455.90	456.85	0.95		Tr		0.01	
		3-5% later quartz veins.									
456.90	559.61	**KOMATIITE**									
		456.00 - 460.00									
		Green mottled carbonated komatiite with weak green carbonate									
		alteration, 20-25% white carbonate veinlets.									
		460.00 - 479.60									
		Black green, massive to fractured, serpentinized nonmagnetic									
		komatiite, 5-10% white carbonate veinlets.									
		474.70									
		1.0 cm mud fault gouge @ 40 deg.									

QUEENSTON MINING INC.
DIAMOND DRILL LOG

Property: Vigrass Lake **Hole: 94 - 03**

METRES		DESCRIPTION	SAMPLE							ASSAYS	
From	To		No.	From	To	Length	% Rec.	% Py	% Qtz	Au g/t	Au 2nd
		479.60 - 485.45									
		Black green, massive to spinifex textured, weakly to strongly magnetic.									
		480.10 - 480.15, 480.60 - 480.95									
		3-5%, 0.1-1.0 cm, pyrite cubes.	7846	479.70	481.00	1.30		2		0.03	
		480.36									
		1.0 cm fault gouge @ 30 deg.									
		485.45 - 530.20									
		Black green, massive serpentinized komatiite, non to weakly magnetic,									
		2-3% white carbonate veinlets.									
		509.50 - 511.00									
		0.5 cm mud fault slip @ 0-5 deg.									
		511.25 - 511.30 & 519.35 - 519.40									
		2-3%, 1-3 mm, pyrite cubes.									
		525.50 & 526.00									
		0.2 cm talcose faults @ 30 deg.									
		527.00 - 527.70									
		0.5 cm green mud talcose fault gouge @ 30 deg.									
		530.20 - 553.65									
		Black serpentinized komatiite, massive, weakly magnetic, 1% quartz									
		carbonate veinlets									
		552.40 - 552.45									
		Green fault breccia @ 50 deg.									
		553.65 - 559.61									
		Polysutured serpentinized green black komatiite.									
		559.05									
		0.5 cm fault gouge @ 30 deg.									
		559.30 - 559.37									
		White carbonate vein @ 50 deg.									
	559.61	E. O. H.									

APPENDIX II

ASSAY CERTIFICATES

Swastika Laboratories

A Division of TSL/Assayers Inc.

Established 1928

Assaying - Consulting - Representation

Assay Certificate

4W-2179-RA1

Company: **QUEENSTON MINING INC**

Date: SEP-26-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 61 Core samples submitted SEP-19-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7140	0.02	-
7141	0.01	-
7142	Nil	-
7143	0.01	-
7144	0.02	-
7145	0.01	-
7146	0.01	-
7147	0.01	-
7148	0.01	-
7149	0.01	0.01
7150	Nil	-
7151	Nil	-
7152	Nil	-
7153	0.07	-
7154	Nil	-
7155	Nil	-
7156	Nil	-
7157	Nil	-
7158	Nil	-
7159	0.06	0.03
7160	Nil	-
7161	0.01	-
7162	0.01	-
7163	Nil	-
7164	0.03	-
7165	0.01	-
7166	Nil	-
7167	0.06	0.05
7168	0.02	-
7169	0.01	-

One assay ton portion used.

Certified by G. Pelow

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

Telephone (705) 642-3244 FAX (705) 642-3300

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Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Assay Certificate

4W-2179-RA1

Company: **QUEENSTON MINING INC**

Date: SEP-26-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 61 Core samples submitted SEP-19-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7170	0.01	-
7171	Nil	-
7172	0.12	0.10
7173	Nil	-
7174	0.01	-
7175	0.06	-
7176	Nil	-
7177	Nil	-
7178	0.02	-
7179	0.14	0.15
7180	0.01	-
7181	Nil	-
7182	0.01	-
7183	0.01	-
7184	Nil	-
7185	Nil	-
7186	0.02	-
7187	0.02	-
7188	0.01	-
7189	Nil	-
7190	0.01	-
7191	0.01	-
7192	Nil	-
7193	0.05	-
7194	Nil	-
7195	0.01	-
7196	Nil	-
7197	0.01	-
7198	0.05	-
7199	0.14	0.14
7200	0.02	-

One assay ton portion used.

Certified by G. Tebb

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A Division of TSL/Assayers Inc.

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Assay Certificate

4W-2180-RA1

Company: **QUEENSTON MINING INC**

Date: SEP-26-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 50 Core samples submitted SEP-19-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7201	0.05	0.06
7202	0.01	-
7203	0.01	-
7204	Nil	-
7205	0.01	-
7206	0.01	-
7207	0.01	0.01
7208	Nil	-
7209	0.01	-
7210	0.01	-
7211	0.01	-
7212	0.02	-
7213	Nil	-
7214	0.03	0.03
7215	0.05	-
7216	0.02	-
7217	0.01	-
7218	0.01	-
7219	0.01	-
7220	0.01	-
7221	0.10	0.11
7222	0.01	-
7223	0.02	-
7224	0.01	-
7225	0.01	-
7226	0.01	-
7227	0.02	-
7228	0.02	-
7229	0.02	-
7230	0.02	0.02

One assay ton portion used.

Certified by G. Leboss

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Assay Certificate

4W-2180-RA1

Company: **QUEENSTON MINING INC**

Date: SEP-26-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 50 Core samples submitted SEP-19-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7231	0.09	0.11
7232	Nil	-
7233	0.01	-
7234	0.02	-
7235	0.01	-
7236	0.01	-
7237	0.09	-
7238	0.16	-
7239	0.46	0.47
7240	0.33	-
7241	0.29	-
7242	0.09	-
7243	0.02	-
7244	0.01	-
7245	Nil	-
7246	0.01	-
7247	0.01	-
7248	0.01	-
7249	0.01	0.01
7250	0.01	-

One assay ton portion used.

Certified by G. Leboff

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Assay Certificate

4W-2201-RA1

Company: **QUEENSTON MINING INC**

Date: SEP-27-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 54 Core samples submitted SEP-20-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7251	Nil	-
7252	Nil	-
7253	Nil	-
7254	Nil	-
7255	Nil	-
7256	Nil	-
7257	Nil	-
7258	Nil	Nil
7259	Nil	-
7260	0.01	-
7261	Nil	-
7262	0.08	-
7263	0.03	-
7264	0.02	-
7265	Nil	-
7266	Nil	-
7267	Nil	-
7268	0.09	-
7269	0.10	0.10
7270	0.11	-
7271	0.03	-
7272	Nil	-
7273	Nil	-
7274	0.01	-
7275	0.10	-
7276	0.16	-
7277	0.05	-
7278	0.07	-
7279	0.12	0.11
7280	0.06	-

One assay ton portion used.

Certified by G. Pelletier

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Assay Certificate

4W-2201-RA1

Company: **QUEENSTON MINING INC** Date: SEP-27-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 54 Core samples submitted SEP-20-94 by .

Sample Number	Au g/tonne	Au Check g/tonne
7281	0.01	-
7282	Nil	-
7283	Nil	-
7284	Nil	-
7285	Nil	-
7286	0.09	-
7287	0.04	0.04
7288	Nil	-
7289	Nil	-
7290	Nil	-
7291	Nil	-
7292	Nil	-
7293	Nil	-
7294	Nil	-
7295	Nil	-
7296	Nil	-
7297	0.01	-
7298	Nil	-
7299	0.01	-
7300	Nil	-
7301	Nil	-
7302	0.03	-
7303	Nil	-
7304	Nil	-

One assay ton portion used.

Certified by G. Pehl

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Established 1928

Assay Certificate

4W-2221-RA1

Company: **QUEENSTON MINING INC**

Date: SEP-28-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 46 Core samples submitted SEP-21-94 by W. Benham.

Sample Number	Au g/tonne	Au Check g/tonne
7305	Nil	-
7306	0.01	-
7307	0.03	0.01
7308	0.04	-
7309	0.01	-
7310	Nil	-
7311	0.02	-
7312	0.01	-
7313	Nil	-
7314	Nil	-
7315	Nil	-
7316	Nil	-
7317	0.01	-
7318	Nil	-
7319	0.01	-
7320	Nil	-
7321	0.04	-
7322	0.05	0.05
7323	0.03	-
7324	0.03	-
7325	0.04	-
7326	0.09	0.09
7327	0.02	-
7328	0.01	-
7329	0.01	-
7330	0.01	-
7331	0.02	-
7332	0.01	-
7333	0.01	-
7334	0.02	-

One assay ton portion used.

Certified by Denis Chantra

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Telephone (705) 642-3244 FAX (705) 642-3300

Established 1928

Swastika Laboratories

A Division of TSL/Assayers Inc.

Assaying - Consulting - Representation

Assay Certificate

4W-2221-RA1

Company: **QUEENSTON MINING INC**

Date: SEP-28-94

Project:

Attn: W. Benham

We hereby certify the following Assay of 46 Core samples submitted SEP-21-94 by W. Benham.

Sample Number	Au g/tonne	Au Check g/tonne
7335	0.01	-
7336	0.01	-
7337	0.02	-
7338	0.03	0.03
7339	Nil	-
7340	0.01	-
7341	Nil	-
7342	0.01	-
7343	0.02	-
7344	Nil	-
7345	Nil	-
7346	0.01	-
7347	0.01	-
7348	0.12	-
7349	0.01	-
7350	0.03	0.03

One assay ton portion used.

Certified by Denis Chartrand

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

Telephone (705) 642-3244 FAX (705) 642-3300

REPORT

on

INDUCED POLARIZATION SURVEY

LAC McVITTIE PROPERTY

McVITTIE TOWNSHIP

for

ROYAL OAK MINES INC.

DECEMBER 1994

D. LONDRY
TIMMINS GEOPHYSICS LTD.

32D04NE2079 om94-037 MCVITTIE

020

SUMMARY AND RECOMMENDATIONS

An induced polarization survey was carried out on the Lac McVittie Property for Royal Oak Mines Inc. in November, 1994.

A number of chargeability anomalies were outlined in the results. The most interesting anomaly is anomaly 'B', however this zone should be further detailed before it is considered as a drill target. It is recommended that Lines 2800 West on the imperial grid and Line 3500 North on the metric grid are surveyed with an 'a' spacing of 150 feet and 'n' values of 1 to 6.

Anomaly 'A' is a high chargeability, low resistivity anomaly which has been previously tested by diamond drilling and determined to be a graphite horizon. Anomaly 'C' and 'D' are high chargeability, high resistivity anomalies located in an area of shallow overburden. A number of trenches have been dug in the vicinity of these anomalies, however they have not been tested with a drill hole. Anomalies 'E', 'F' and 'G' are weak questionable chargeability anomalies and should only be tested if there is favourable geological information.

There were no anomalies detected on Lines 1600 to 2400 West, north of the baseline; the source of the airborne EM anomaly in this area still remains unexplained. The IP survey also showed that the quadrature EM anomalies on Line 4200 West are not from a bedrock source and are likely due to deeper conductive overburden.

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GRID A, 150 FEET 'A' SPACING

9. INDIVIDUAL PSEUDOSECTIONS

GRID B, 25 METRE 'A' SPACING

10. INDIVIDUAL PSEUDOSECTIONS

INTRODUCTION

During October and November 1994, an induced polarization (IP) survey was carried out on the Lac McVittie Property, McVittie Township for Royal Oak Mines Inc. The purpose of the survey was to locate mineralization within favourable geology close to the Kinojevis/Gauthier contact.

The property is located approximately fifteen miles east northeast of the town of Kirkland Lake in the Larder Lake Mining Division (Figure 1(a)). It is bordered by the Misema River to the west, Beaverhouse Lake to the north and Moosehead and Spectacle Lakes to the east. It can be accessed by travelling north from Highway 66 on the Forks Lake Road which is located 3 kilometres west of the town of Larder Lake. The Forks Lake Road runs along the west side of the survey area and a couple of branches off this road give access to the east portion of the property.

The property consists of 57 claims, each of which is comprised of one 40 acre claim unit (Figure 1(b)). The claims are numbered as follows:

767405	to	767409	inclusive
767415	to	767419	inclusive
767425	to	767429	inclusive
767435	to	767439	inclusive
767443	to	767447	inclusive
767451	to	767457	inclusive
767460	to	767466	inclusive
767701			
802384			
1111182	to	1111186	inclusive
1110272	to	1110276	inclusive
1137128	to	1137131	inclusive
1137134	to	1137135	inclusive

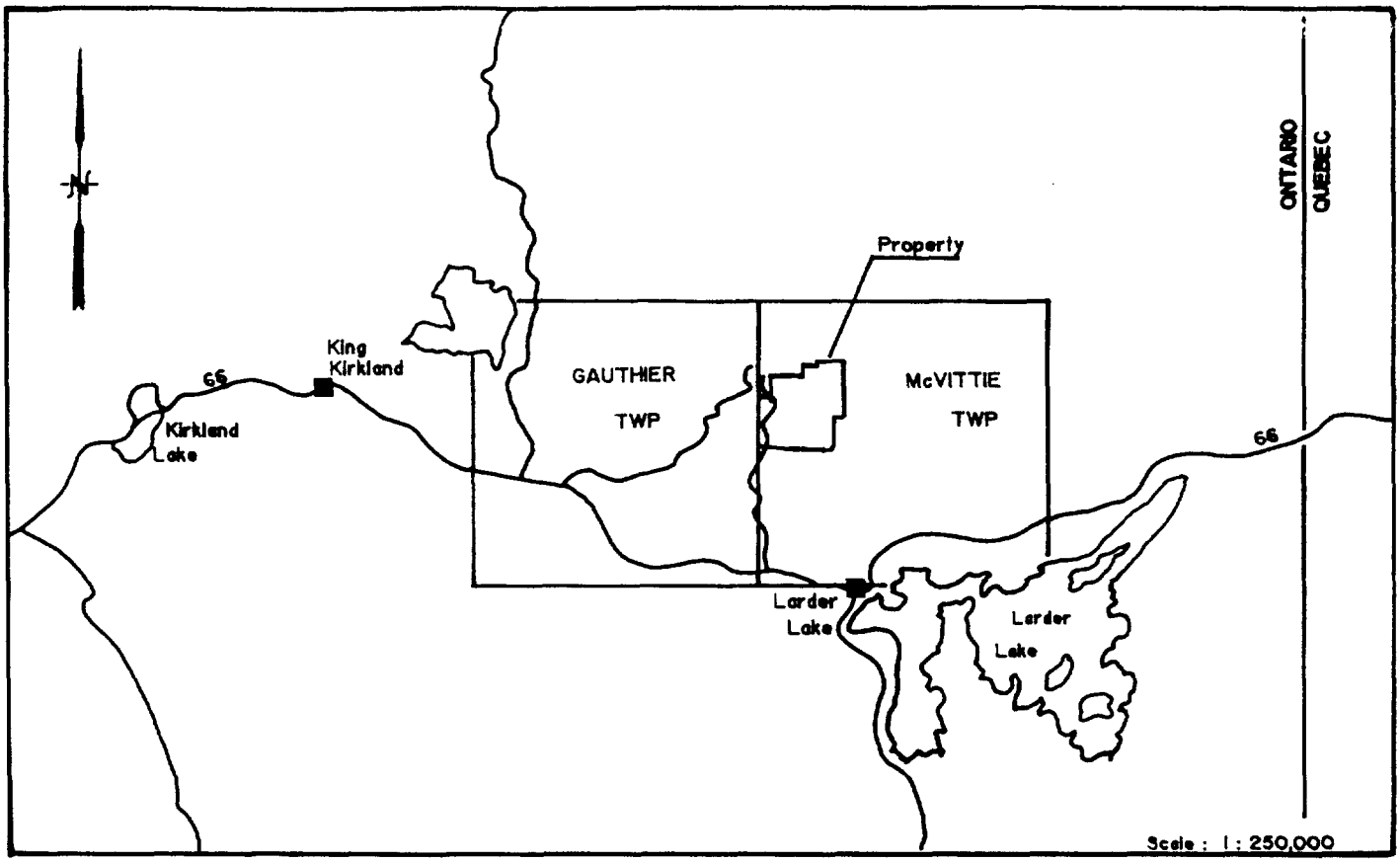


Figure I(a) : Location Map

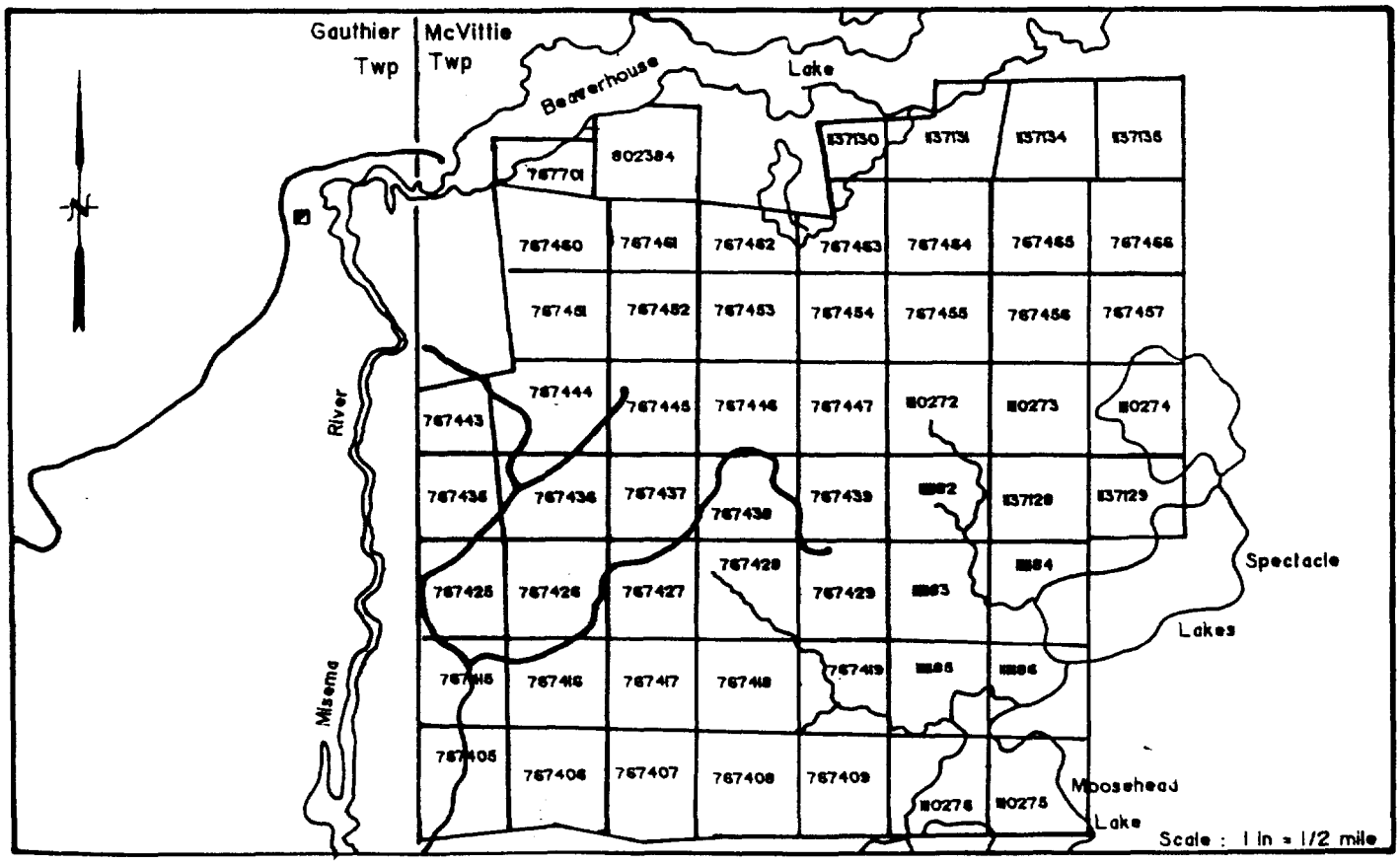


Figure I(b) : Claim Map

GENERAL GEOLOGY

The property was most recently mapped by Lac Minerals Exploration in 1988 (assessment file KL-1534). The geology consists of Fe and Mg-rich tholeiites of the Kinojevis Group and underlying felsic and calc-alkaline tuffs and agglomerates of the Gauthier Group. The Kinojevis Group occupies the northern and eastern portions of the property while the Gauthier Group is located in the west central portion. These units form a anticline structure, named the Spectacle Lake Anticline, located to the northeast of the present survey area and a syncline structure named the Moosehead Lake Syncline which is located along the south edge of the property.

The Upper Beaverhouse deposit is located to the northwest of the present survey area. The Kirkland-Larder Lake break strikes east-west approximately 5 kilometres to the south of the property and the Misema Fault strikes north-south just to the west.

PREVIOUS WORK

The following is a description of previous work (Table 1) which has been filed at the office of the resident Geologist in Kirkland Lake since 1964.

The property was held by Upper Canada Mines/Queenston Mines Inc. from approximately 1964 to 1984. In 1980, magnetic and EM surveys were carried out and six diamond drill holes, labelled 80-30-1 to 6, were sunk on the property.

In 1984, the property was staked by Lac Minerals who flew a combined magnetic, EM, VLF and radiometric survey along 368 kilometres of line, spaced

YEAR	COMPANY	GEOPHYSICS	DRILL HOLES	ASSESSMENT FILE
1980	QUEENSTON GOLD MINES LIMITED	MAG,EM	80-30-1,2,3,4,5	KL-2321
1988	LAC MINERALS EXPLORATION	GEOL	LV88-10,11,12,13,14	KL-1534
1990	PAMOREX MINERALS INC.	MAG,HLEM	LM90-1,2	KL-2957
1991	ROYAL OAK MINES INC.		LM91-1,2,3,4	KL-3082
1993	SUDBURY CONTACT MINES LTD.	MAG,IP	R93-1,2,3,4,5	KL-3310

Table 1. Summary of previous assessment work.

every 100 metres. The property was mapped between 1985 and 1988 and in 1988, Lac Minerals drilled 5 holes, labelled LV88-10 to 14.

In 1989, the property was optioned to Pamorex Minerals Inc./Royal Oak Mines Inc. and in 1990, magnetic and horizontal loop electromagnetic (HLEM) surveys were carried out. The grid which was cut over the north half of the property consisted of north-south and east-west lines spaced every 200 feet. The HLEM survey was run with a coil separation of 400 feet and frequencies of 444 and 1777 Hertz. The magnetic readings were taken every 50 feet with a proton precession magnetometer.

In 1990, Pamorex Minerals Inc. drilled two holes, LM90-1 and LM90-2, to test a north south striking conductor outlined in the HLEM survey to the north of the present survey area. In 1991, Royal Oak Mines Inc. drilled a further 4 holes in the same area.

In 1993, the property was optioned to Sudbury Contact Mines Ltd. A grid, which consists of east-west lines spaced every 100 metres, was established to the south of the Pamorex grid and magnetic and IP surveys were carried out. The IP survey was run with a gradient array using an electrode separation of 50 metres and the magnetic readings were taken every 12.5 metres with a proton precession magnetometer. Five diamond drill holes, labelled R93-1 to 5, were sunk to mainly test magnetic features.

The magnetic surveys run by Pamorex in 1990 and by Sudbury Contact in 1993 have been compiled and are presented in Figure 2. The high magnetic field along the north and east sides of the property have been interpreted to reflect rocks of the Kinojevis Group. The pattern formed by these anomalies gives a rough outline of the Spectacle Lake Anticline to the northeast and the Moosehead Syncline to the south. A slight gradient in the magnetic field between Lines 3700 and 3800 North on the metric grid indicates the possibility of a fault which strikes slightly north of east. Breaks in the magnetic pattern and HLEM anomalies to the north of this feature strike north northeast. A magnetic low, centered between Lines 3500 and 3600 North, is not associated with the magnetic highs to the south and may reflect an intrusive or a breakdown of magnetic minerals due to alteration.

SURVEY DESCRIPTION

The IP survey was conducted with the Scintrex IPR-11 time domain spectral receiver and the Scintrex TSQ-3 3000 Watt transmitter. The current on-off time is two seconds. Integration takes place during ten time intervals or 'slices'

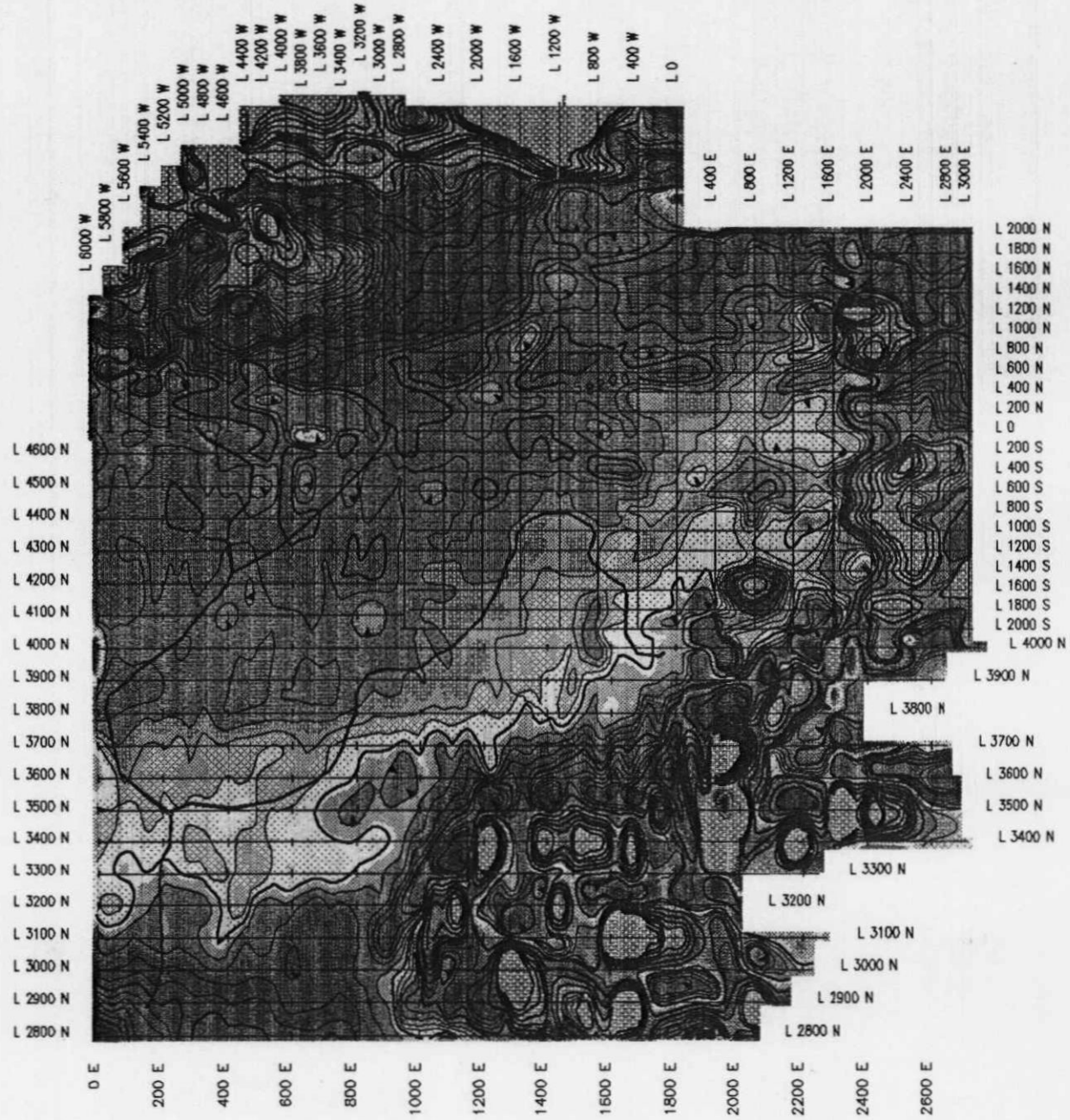


Figure 2: Colour Image of Total Magnetic Field, 1990 and 1993 Surveys.

SLICE	DELAY TIME (MS)	INTEGRATION TIME (MS)
M0	30	30
M1	60	30
M2	90	30
M3	120	30
M4	150	180
M5	330	180
M6	510	180
M7	690	360
M8	1050	360
M9	1410	360

Table 2: Delay and integration times of the Scintrex IPR-11 IP receiver.

after shut-off; Table 2 lists the delay and integration times for each slice. A pole-dipole array was used and readings were taken for 'n' values of 1 to 4.

The survey was carried out on two overlapping grids (Figure 3) which are designated grids A and B for the purpose of this report.

Grid A consists of north-south lines which are the south extension of the 1990 Pamorex grid lines. The lines on this imperial grid are spaced every 400 feet and picketed every 100 feet. The 'a' spacing used in the survey along these lines was 150 feet and the remote electrode was located to the south, at approximately 5200 West, 7500 South.

Grid B, which was cut by Sudbury Contact in 1993, is a metric grid which consists of east-west lines spaced every 100 metres and picketed every 25 metres. The survey was run on seven of these lines, Lines 3200 North to 3800 North inclusive. The 'a' spacing used on this grid was 25 metres and the remote electrode was located to the east, at approximately 3000 East, 4000 North.

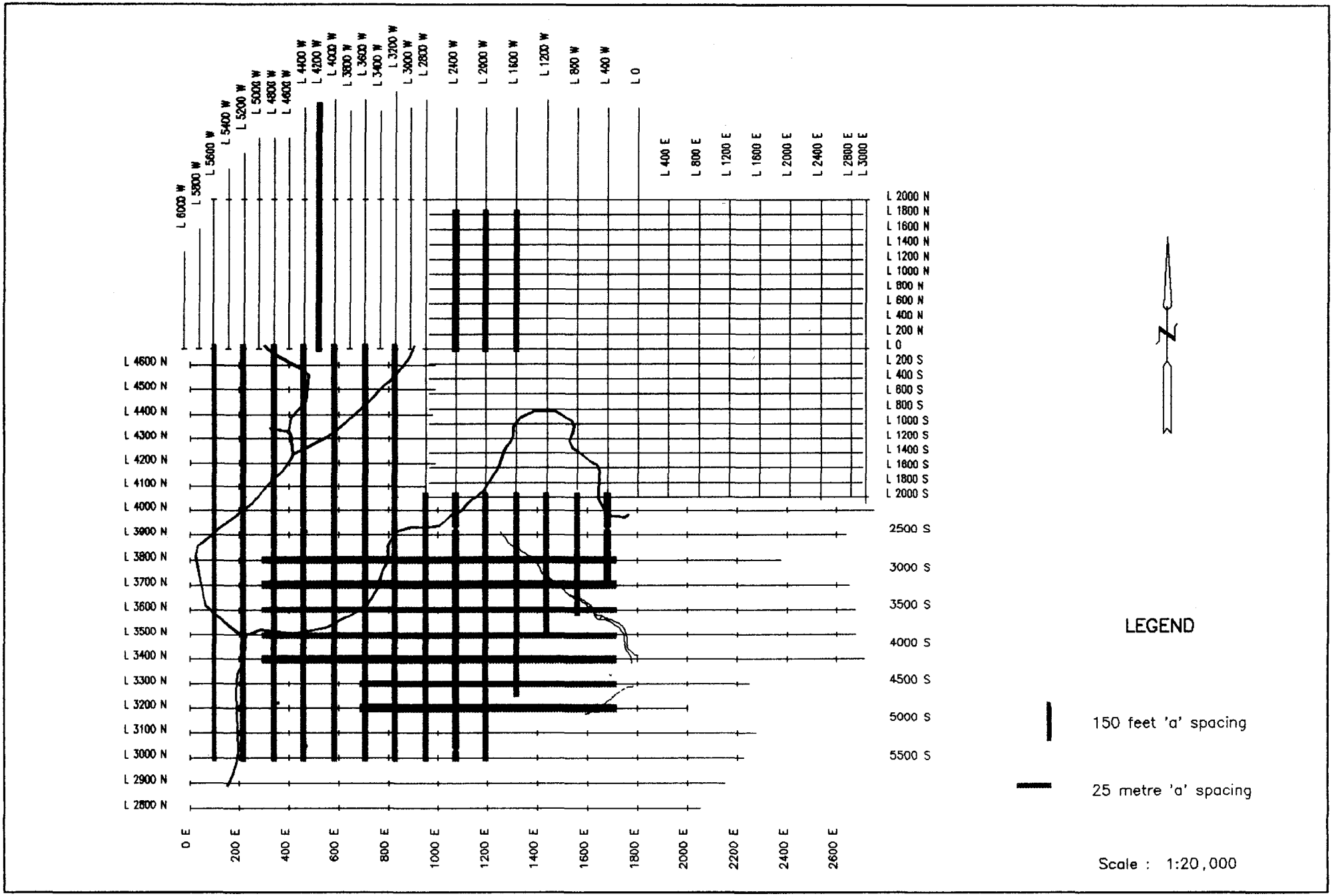


Figure 3 : 1994 IP Coverage

Four north south lines on the 1990 Pamorex grid were also recut to the north of baseline 0. These lines were surveyed with the same remote electrode and survey parameters that were used on grid A. Line 4200 West was cut from 0 to 3300 North and was surveyed to test a number of quadrature EM anomalies which were outlined in the 1990 HLEM survey. Lines 1600 to 2400 West were cut from 0 to 1800 North. The purpose of the IP survey on these lines was to locate the source of an airborne EM anomaly which was not detected in the 1990 HLEM survey.

IP RESULTS

The results are plotted on two sets of plan maps and one set of individual pseudo-sections, at a scale of 1 in = 200 feet or 1:2400; all of the maps can be found in a separate folder accompanying this report.

The filtered IP chargeability and resistivity results for slice 'M7' are plotted on plan maps 1 and 2 for Grid A and on maps 5 and 6 for Grid B; the shape and weight of the filter, which is an average of all four 'n' values, is given on the maps. The IP chargeability and resistivity results are presented in pseudo-section form on plan maps 3 and 4 for Grid A and maps 7 and 8 for Grid B. The results along the four lines north of baseline 0 are only presented on individual pseudo-sections.

A colour image of the filtered chargeability and resistivity is presented in Figures 2 and 3 respectively for grid A and in Figures 6 and 7 respectively for grid B.

A number of chargeability anomalies were outlined in the results and are described below.

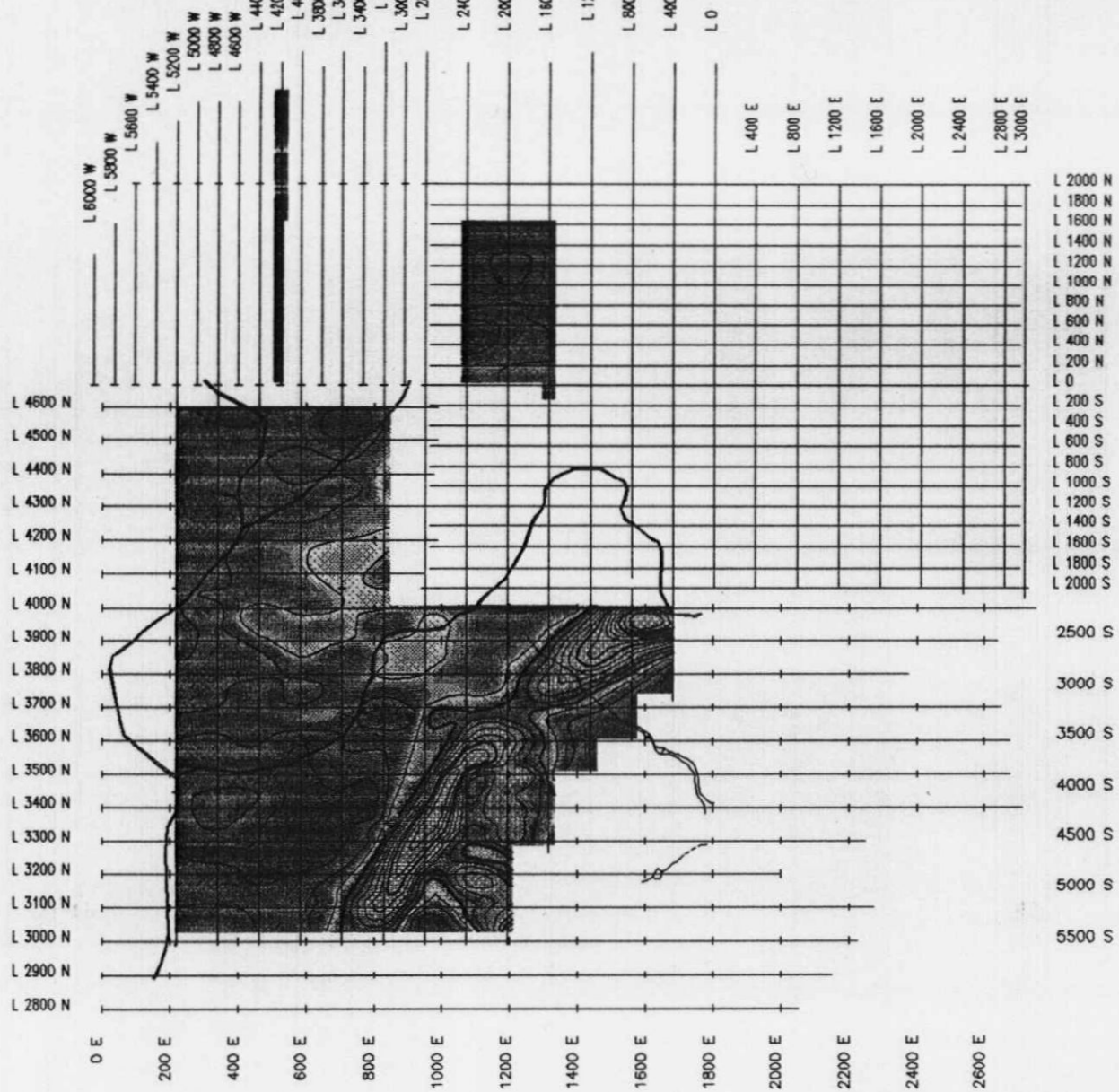


Figure 4 : Colour Image of Filtered Chargeability, 150 feet 'A' spacing

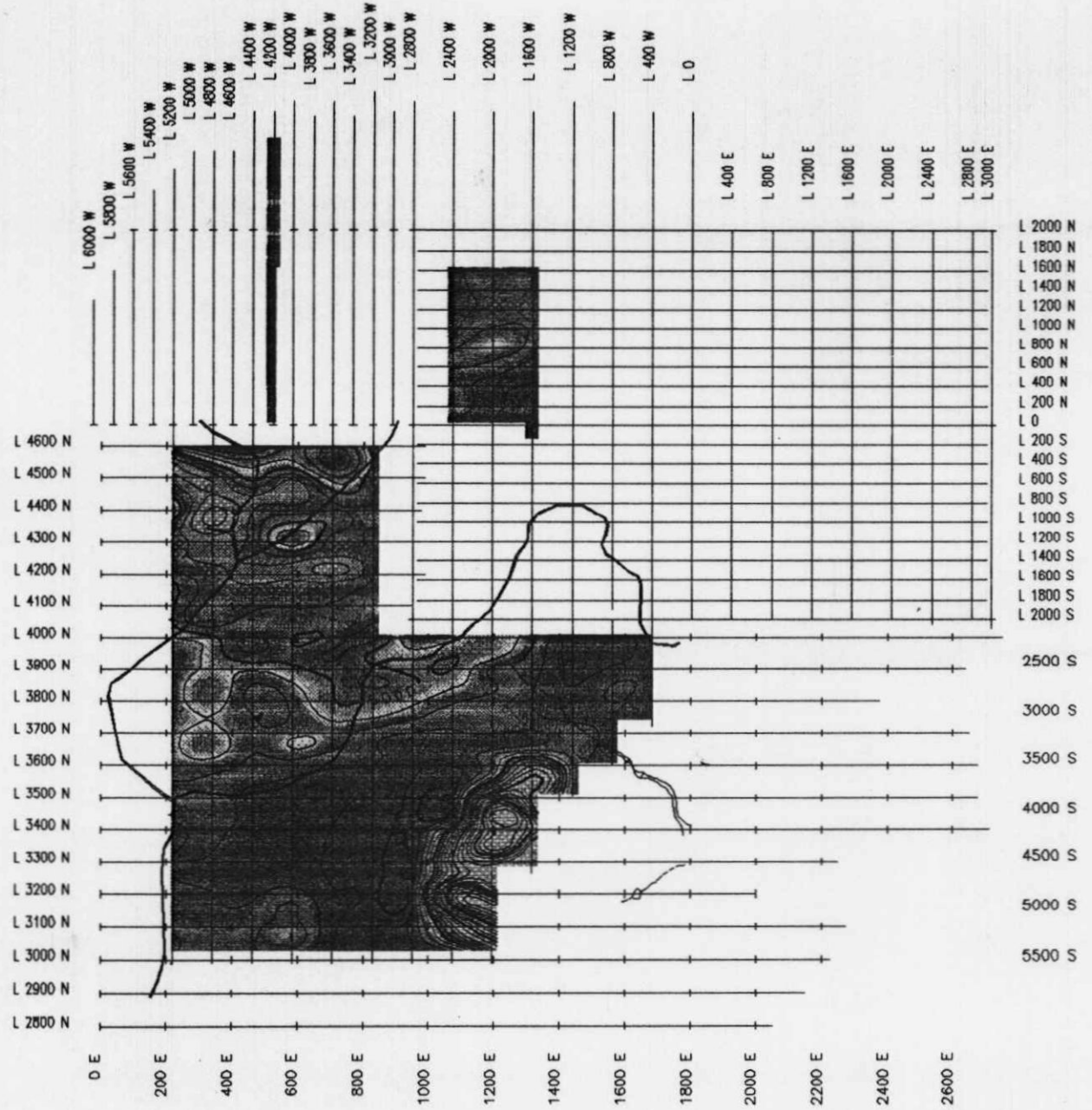


Figure 5 : Colour Image of Filtered Resistivity, 150 feet 'A' Spacing

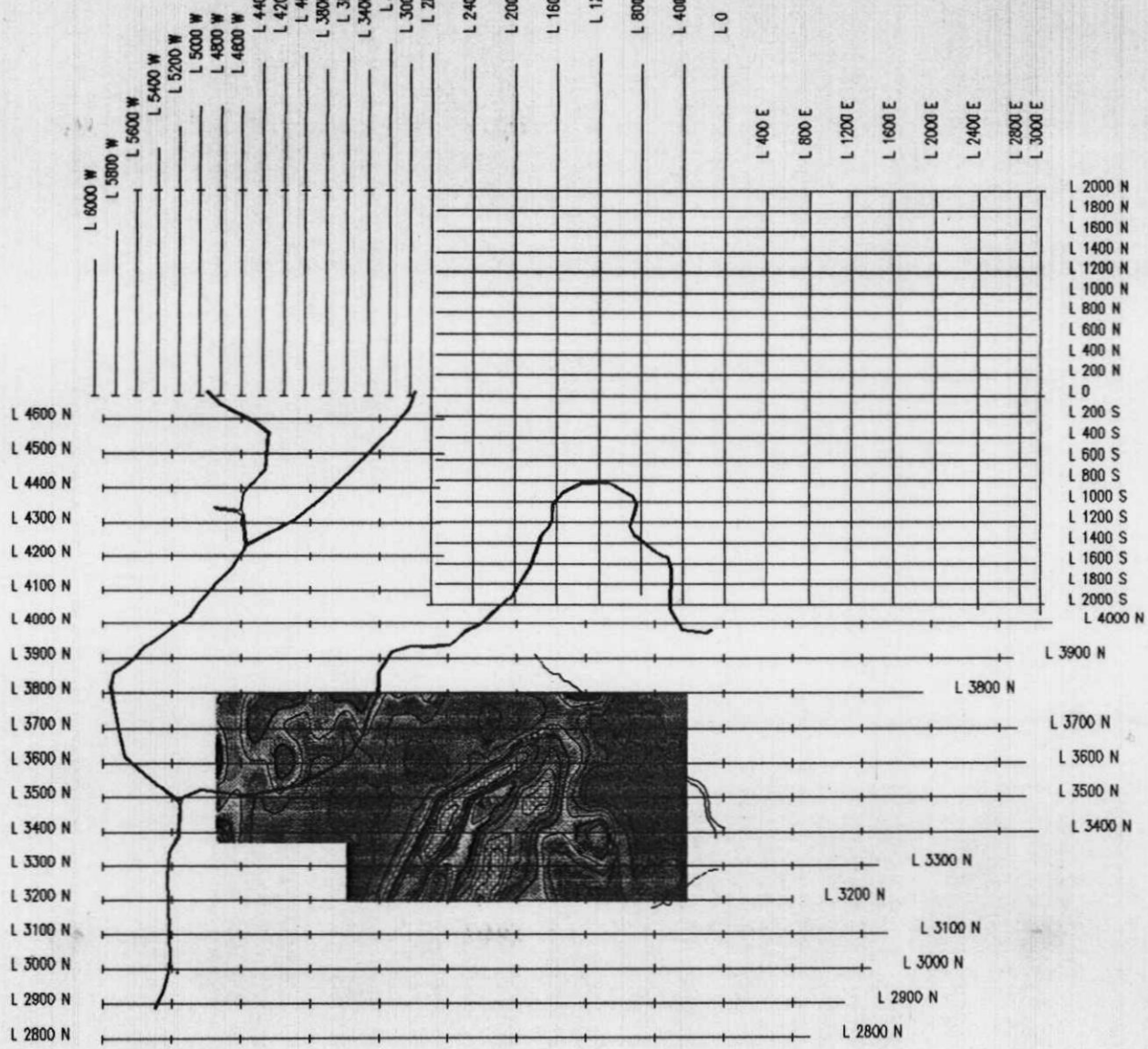
Anomaly 'A' is a high chargeability, low resistivity anomaly which is located in the east half of the survey area. The amplitude of the chargeability is approximately 4 to 5 times greater than background. The width of the anomaly on the north south lines is due to the angle of the lines relative to the zone; it is better defined on the east-west lines which intersect the zone closer to 90 degrees.

The zone is folded or faulted between Lines 3500 and 3600 North. It strikes north northeast between 3200 and 3500 North and northeast to the north of 3500 North. The weaker filtered values on Line 3700 North is due to the fact that the source is deeper on this line.

This anomaly was likely the target of Hole 80-30-5 which was drilled by Queenston Gold Mines Ltd. in 1980; the hole intersected a graphite horizon. It appears to be on strike with EM anomaly 'C' which was outlined in the 1990 HLEM survey to the north, however the results on Line 400 West suggest that the zone swings to an east-west direction between 400 and 800 West on the metric grid.

Anomaly 'B' strikes east northeast from 3575 South on Line 3600 West to 2775 South on Line 2000 West. This is a poorly defined chargeability high which is only present on the deeper 'n' values; it is not present in the results on the east-west lines with the smaller 'a' spacing.

The amplitude of the chargeability on Line 2800 West is much higher than on the other lines, up to 4 times greater than background. This high chargeability continues to the south, partly no doubt, in response to the portion of zone 'A' which is located to the east of this line. In order to help explain the high chargeability between anomalies 'A' and 'B', an IP survey should be carried out along Line 2800 West and 3700 North with an 'a' spacing of 150 feet and readings to 'n' equals 6.





LEGEND

Instrument : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 kW
Array : Pole-Dipole
'A' Spacing : 25 metres
On-Off Time : 2 seconds
Delay Time : 690 ms
Integration Time : 360 ms
Gridded By : Geosoft Bigrid
Cell Size : 75 feet
Contour Interval : 1 ms
Scale : 1:20,000

1/4
1/8 1/8
1/12 1/12 1/12
1/16 1/16 1/16 1/16

filter

Figure 6 : Colour Image of Filtered Chargebility, 25 metre 'A' Spacing

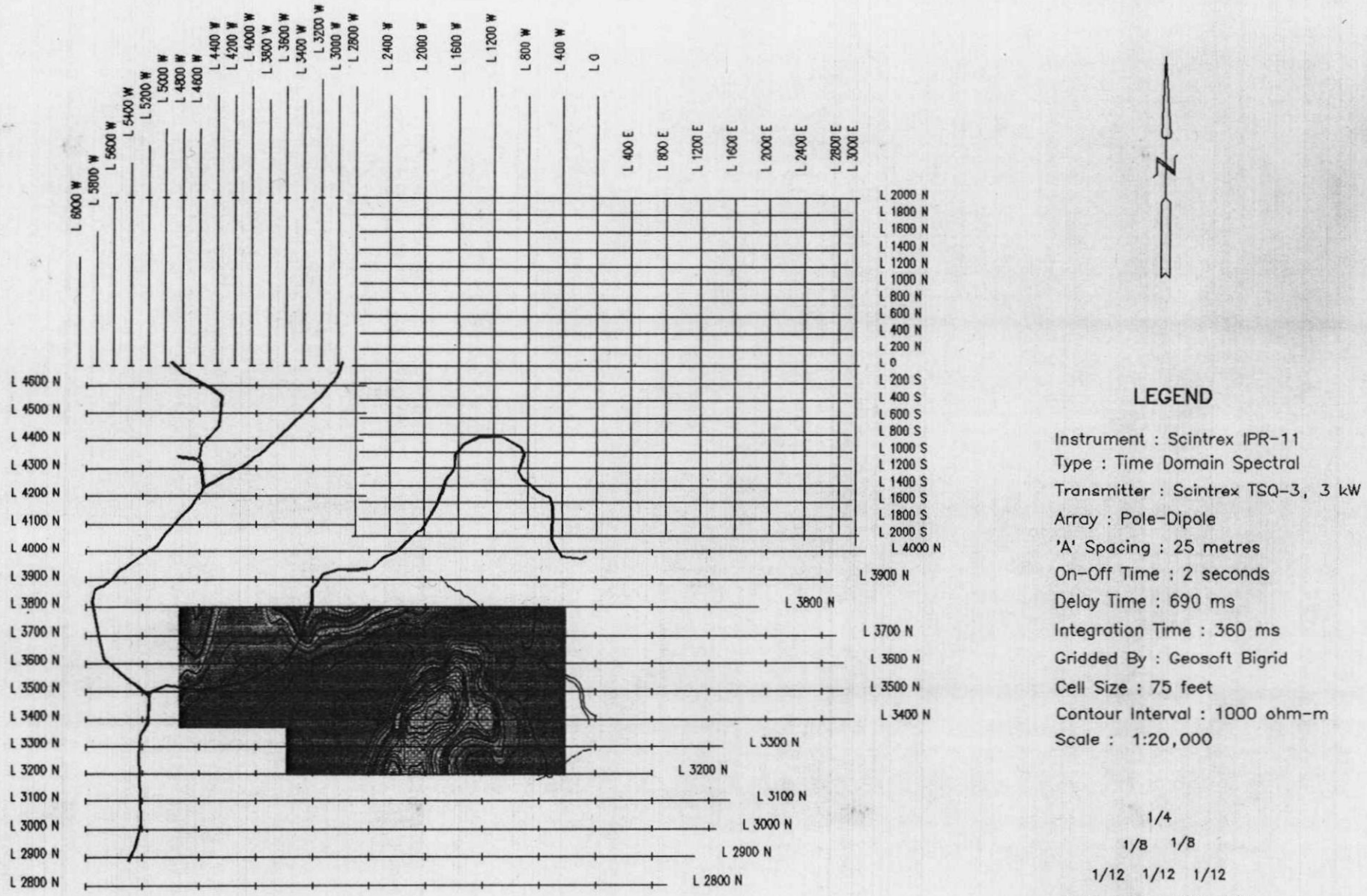


Figure 7 : Colour Image of Filtered Resistivity, 25 metre 'A' Spacing

Anomaly 'C' is a broad area of high chargeability and high resistivity which trends north-south to the east of anomaly 'A'. This anomaly is also better defined on the east west lines where it is centered at approximately 1200 East. The chargeability and resistivity are both likely enhanced by the lack of overburden in this area.

Anomaly 'D' is a very similar response to anomaly 'C'. The source of both of these anomalies is likely disseminated pyrite which was noted in the geological survey carried out by Lac Minerals in 1988.

An esker or outwash trends north northeast through the west half of the survey area between the two branches of the Forks Lake road. High chargeability in this area is typically only present on 'n' values of 1 and 2 with an associated high along one 'pantleg'. This pattern suggests a flat source and might be explained by clay particles in the esker. A massive clay horizon will not be polarized whereas discrete clay particles which form a minor part of a resistive sand layer will give rise to an appreciable induced polarization.

Two anomalies on the north-south lines over the esker may be due to a bedrock source. Anomaly 'E' is centered at 2450 South on Line 5200 West and anomaly 'F' is centered at 4925 South on Line 4000 West. Both of these anomalies have a weak chargeability and what sets these apart from the surficial responses is the increase in amplitude with depth.

Anomaly 'G' is a very weak chargeability anomaly which strikes approximately east-west across the northern edge of the survey area. It has a direct correlation with high resistivity.

Figure 8 is a compilation of the geophysical surveys along Line 4200 West, to the north of baseline 0; the magnetic and HLEM data is from the 1990 Pamorex surveys. Deep conductive overburden on the line is mapped by low resistivity

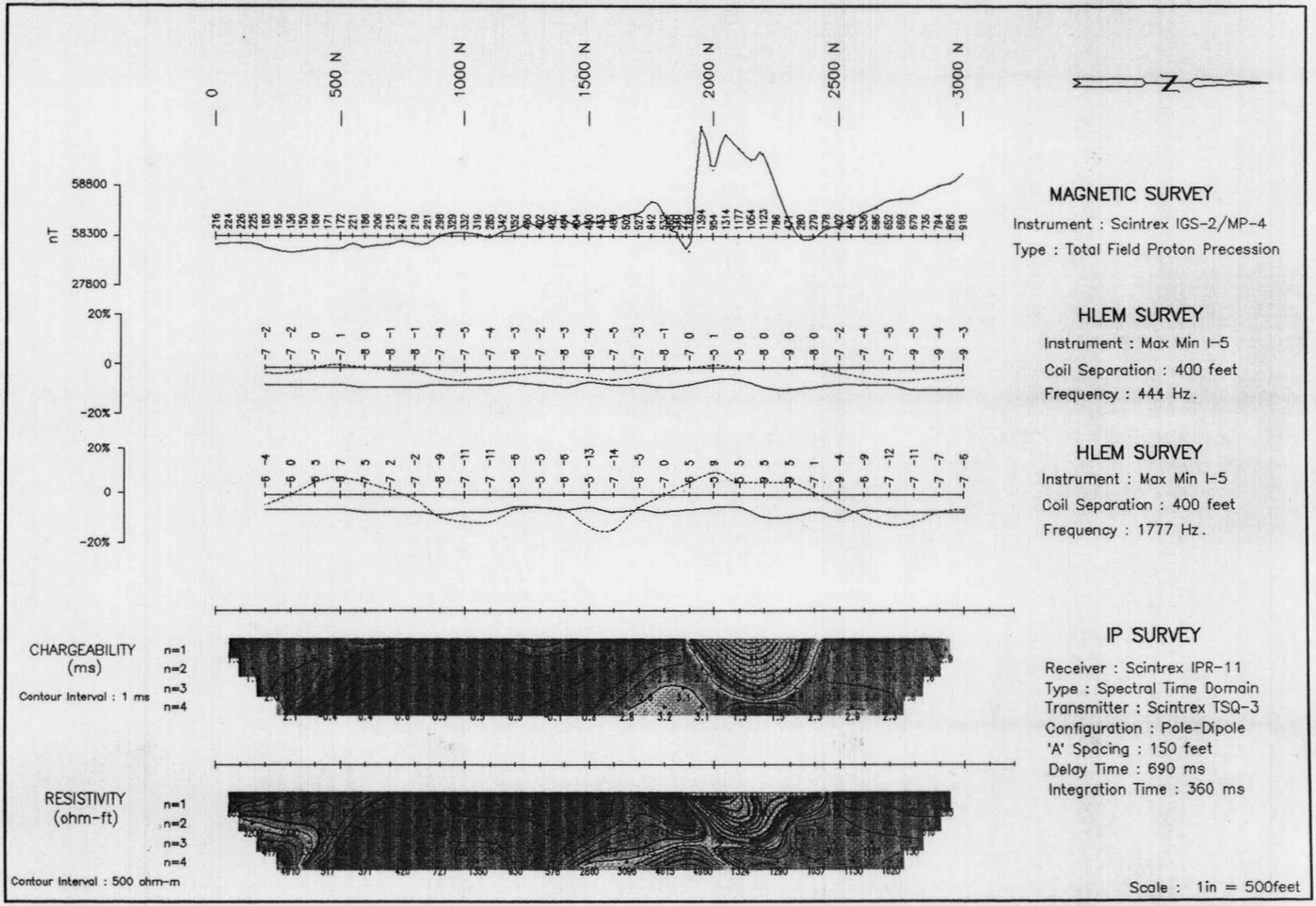


Figure 6 : Geophysics Compilation, Line 4200 West

in the IP survey and quadrature anomalies in the HLEM survey. An area of outcrop, between 2900 and 2400 North, is reflected by very high resistivity. A chargeability anomaly is centered at 2150 North; the very high response on 'n' equals 1 and 2 are enhanced by the high resistivities.

There were no anomalies detected on Lines 1600 to 2400 West, north of the baseline; the source of the airborne EM anomaly in this area still remains unexplained. The slightly higher chargeability at the south end of these lines is likely a buildup in response to EM anomaly 'B', located just to the south.

DECEMBER 15/94

DATE

D. LONDRY
TIMMINS GEOPHYSICS LTD.

TECHNICAL REPORT
on the
1994 EXPLORATION PROGRAM
on the
LAC McVITTIE JOINT VENTURE

McVittie Township
Larder Lake Mining Division
Northeastern Ontario
NTS 32D/4

Prepared for:

ROYAL OAK MINES INC.
LAC MINERALS LTD.
QUEENSTON MINING INC.
SUDBURY CONTACT MINES LTD.

Submitted by:

Reno Pressacco, M.Sc.(A), FGAC
Project Geologist
Eastern Canada Exploration
Royal Oak Mines Inc.

December 1994

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SUMMARY

A total of 5,354.4 feet of BQ core was drilled in 5 holes during the October to December, 1994, period. In addition, limited linecutting and Induced Polarization surveys were conducted mostly in the southwestern sections of the property. One new claim was staked and included in the Joint Venture.

The 1994 program was successful in discovering new zones of alteration and mineralization that contained associated geochemically anomalous gold values. As well, a number of new east-west oriented I.P. anomalies were detected. The source of the magnetic anomalies that were tested by diamond drilling were found to be either discrete "beds" of magnetite or as sections of magnetic mafic fragmental units. Where magnetite "beds" were encountered, they contained significant quantities of chalcopyrite and are thus quite similar to the ore that was mined at the Upper Beaver Mine in the past. The source of the quadrature-response HEM anomalies was found to be caused by occurrences of disseminated to semi-massive sulphides that in one case returned a value of 0.098 opt Au/2.0 ft in hole LM94-6. A large number of alteration/mineralized zones were intersected by the three drill holes in the northwestern portion of the property. Textural relationships between the different styles of mineralization suggest a complex paragenetic history. A number of geochemically anomalous gold values were encountered by the 1994 drill holes, at times across large widths. These values do not seem to correlate to any one particular type of alteration, but are hosted by all styles of alteration and rock types, even by the most barren-looking of host rocks. This is encouraging, as it suggests the presence of a gold-bearing hydrothermal system of sufficient size and strength to form such a diverse and pervasive geochemical halo.

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CERTIFICATION

I, Reno Pressacco, residing at 181 Christine Street, Timmins, Ontario, do hereby certify the following:

1) That I am employed by Royal Oak Mines Inc. as a Project Geologist

2) That I hold the following degrees:

1982: Diploma in Geological Engineering Technology, Cambrian College, Sudbury, Ontario
1984: Bachelor of Science in Geology, Lake Superior State College, Sault Ste Marie, Michigan
1986: Master of Science (Applied), McGill University, Montreal, Québec

3) That I am a member in good standing of the following organizations:

Fellow, Geological Association of Canada
Member, Porcupine Prospectors and Developers Association

4) That the information presented in this document is true and accurate to the best of my knowledge. This information was gathered from such various sources as assessment files, newspaper articles, various publications, and by Royal Oak Mines Inc.

5) That I hold no direct or indirect interests, nor expect to receive any compensation other than salaries in either Royal Oak Mines Inc., Lac Minerals Ltd., Queenston Mining Inc. or Sudbury Contact Mines Ltd.

R. Pressacco

Timmins, Ontario
December, 1994

R. Pressacco, M.Sc.(A), FGAC
Project Geologist

1.0 Introduction

A four-hole diamond drill program, accompanied by an Induced Polarization survey over selected targets, was executed during October through December of 1994. In part, this program was influenced by recent developments on Sudbury Contact's Victoria Creek Project to the west, but it was also influenced by the results of Royal Oak's 1991 diamond drilling program on the Upper Beaver property located to the immediate northwest of the claim group. The potential for both Upper Beaver-type mineralization and Victoria Creek-type mineralization was felt to be present on this property, and the 1994 exploration program was directed towards locating those types of systems. This report describes and summarizes the results of this recent program.

2.0 Location and Access

The Lac McVittie property is located in west-central McVittie township and is roughly bounded on three sides by the Misema River, and the Beaverhouse-Spectacle Lake drainage system. The claim group lies 3 km west of Larder Lake, 6 km north of Highway 66, and is accessible along the west boundary by the Fork Lake Road (Figure 1). Numerous trails and drill roads, as well as Spectacle, Moosehead and Beaverhouse Lakes provide access to the north and east portions of the property. The Misema River, flanked on the east by a south-trending esker ridge, is the dominant geographic feature.

Access can also be had by the Beaverhouse Road which begins at the village of Dobie, Ontario, and winds its way to the Upper Beaver Minesite and Beaverhouse Lake. There it joins up with the northern limit of the Fork Lake Road across a set of rapids on the Misema River. During the 1994 exploration program, access to the northwestern part of the property was gained by crossing these rapids which were only 1 to 2 feet deep at their deepest point. Judging from the high-water marks, these rapids are not likely to be traversable during times of flooding (spring).

3.0 Property Status

Prior to 1994, the property consisted of a total of 57 unpatented mining claims with a surface area of 3,280 acres. With a newly acquired claim in September, 1994 (No. L-1202836), the property now consists of 58 unpatented, single-unit claims totalling approximately 3,320 acres (Figure 2). A claim status report is given in Appendix I. The Joint Venture currently holds the mineral rights to the 58 claims described above. However, a number of surface rights-only claims are also present on the property, and these are shown on Figure 2.

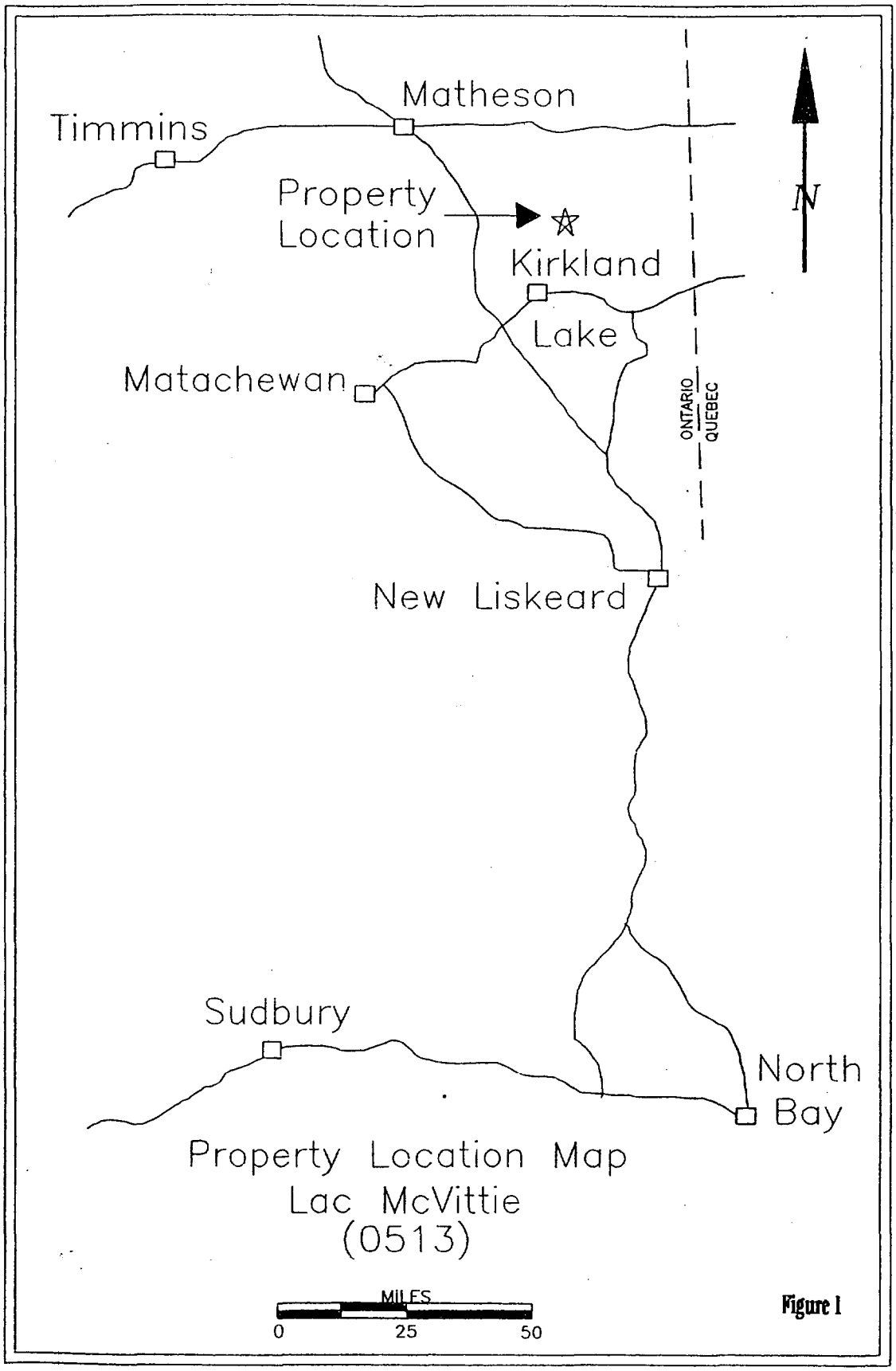

Matheson
Timmins
Property
Location
Kirkland
Lake
Matachewan
ONTARIO
QUEBEC
N
New Liskeard
Sudbury
North
Bay
Property Location Map
Lac McVittie
(0513)
MILES
0
25
50

Figure 1

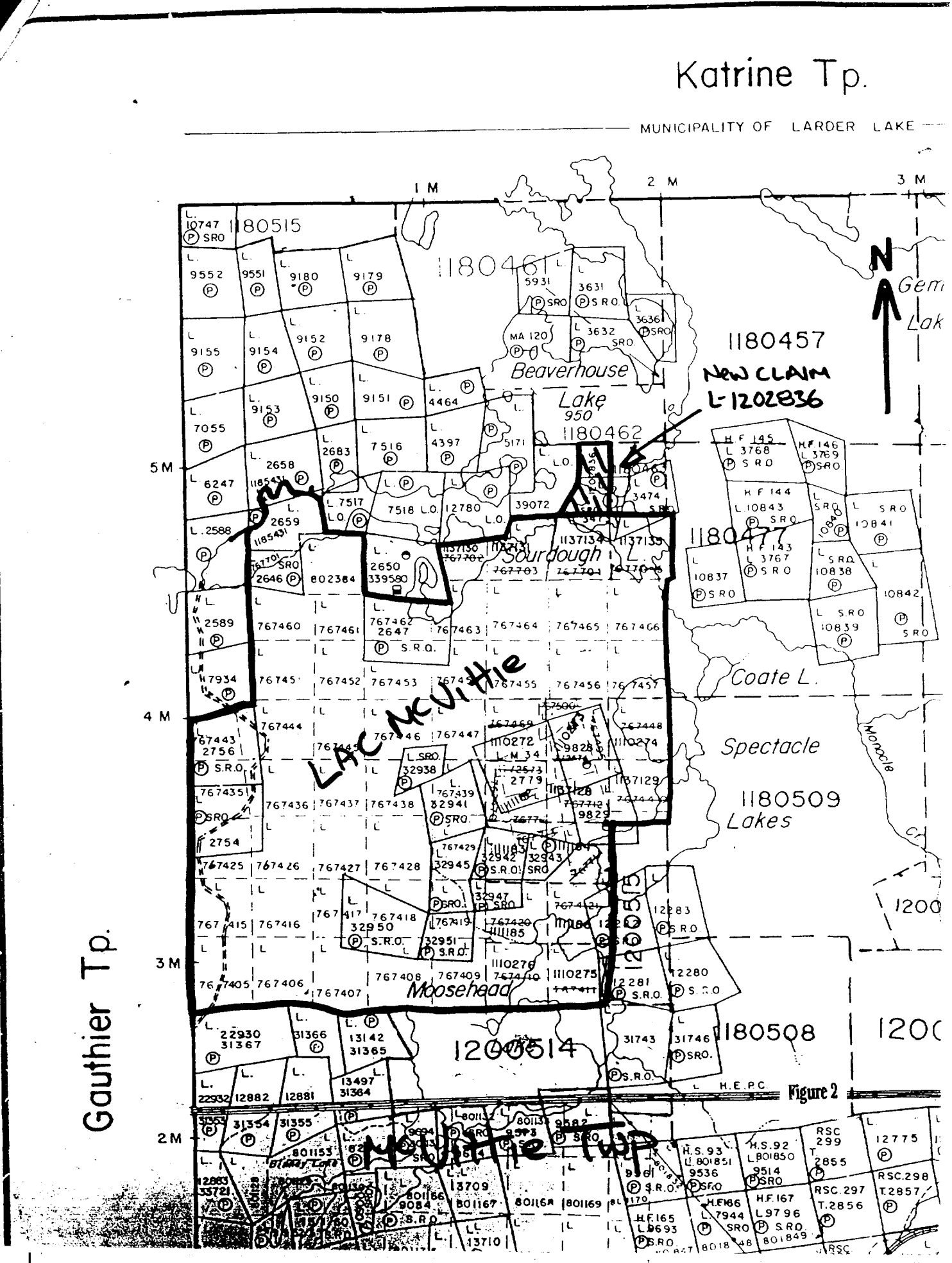

Katrine Tp.
MUNICIPALITY OF LARDER LAKE
1 M
2 M
3 M
4 M
5 M
1180515
1180461
1180457
NEW CLAIM
L-1202836
1180462
1180477
1180509
Lakes
1180508
1200514
Beaverhouse
Lake
950
Sourdough
L.
Coate L.
Spectacle
Moosehead
LAC McVittie
Gauthier Tp.
McVittie Twp
H.E.P.C.
N

Figure 2

4.0 Previous Work

Despite the property's location near historically prolific gold mining camps, very little previous work is on file with the Kirkland Lake Resident Geologist. A brief summary is detailed below:

1967: **Upper Canada Mines**, magnetometer and EM surveys, diamond drilling, 2 holes

1980: **Queenston Gold Mines Inc.**, diamond drilling, 4 holes

1985-1988: **Lac Minerals Ltd.**, airborne VLF surveys, magnetometer survey, diamond drilling, 8 holes total 4,644 ft, geological mapping

1989-1991: **Pamorex Minerals Ltd.**, magnetic and HEM surveys, diamond drilling, 6 holes total 5,168 ft, stripping and trenching, 3 sites

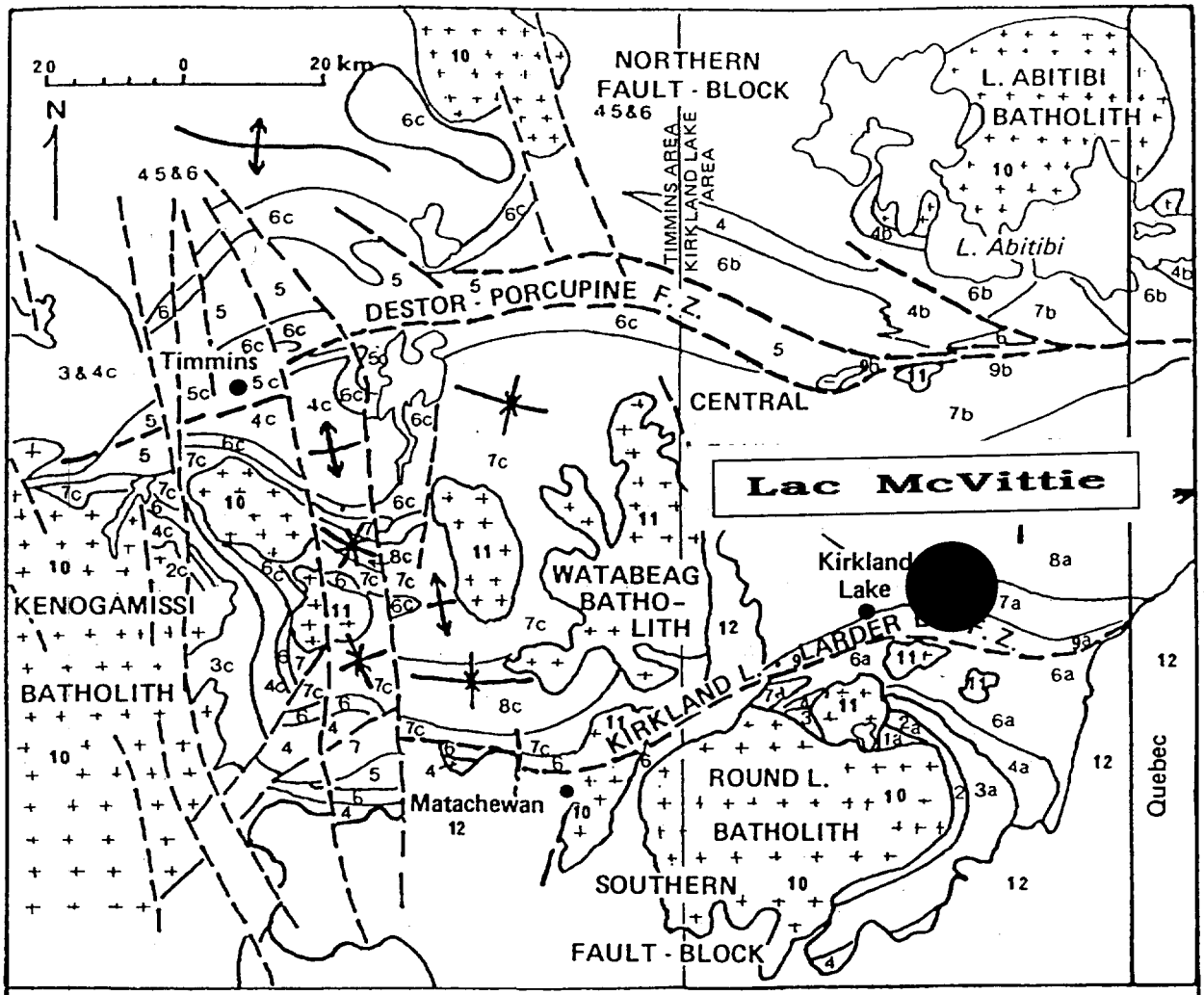
1993-1994: **Sudbury Contact Mines Ltd.**, limited geological mapping, reverse circulation drilling (22 holes on the Upper Beaver and Lac McVittie properties), limited magnetic and Induced Polarization surveys, diamond drilling, 5 holes total 631.13m (2,070.6 ft)

5.0 Regional Geology

The stratigraphy in the eastern portion of the Abitibi Belt in Ontario has been subdivided into two supergroups by Jensen and Langford (1985) - see Figure 3 and Table 1. The two supergroups represent successive volcanic cycles from ultramafic komatiitic volcanism to acid calc-alkalic volcanism. Each cycle is topped by a dominantly sedimentary-tuffaceous sequence which reflects relative quiescence in volcanic activity.

The tectonic regime in which the majority of these rocks are located is one of regional subsidence. The formation of a broad, east-trending synclinal basin is attributed to this subsidence. The Destor-Porcupine Fault Complex forms the north boundary of this basin, and the south side is marked by the Larder Lake Fault Complex.

Late intrusives locally dissect the volcanic/sedimentary stratigraphy. Compositionally, these intrusive rocks range from ultramafic, pyroxenite, diabase and lamprophyre, to diorite, granite and syenite. The mafic and ultramafic varieties tend to be found as sills and/or dikes, whereas the intermediate and felsic varieties form as stocks or batholiths.



LEGEND

Proterozoic

Keeweenawan diabase (not shown)

12 Cobalt Group

Archean

Matachewan diabase (not shown)

Granitic rocks

11 Granodiorite, monzonite, quartz monzonite, syenite

10 Massive to gneissic quartz diorite, tonalite, trondhjemite

Upper Supergroup

9 9a* Timiskaming Group, 9b** Destor - Porcupine Complex

8 8a, 8n, Blake River Group, 8c*** Blake River (Upper Fm., Tisdale Group)

7 7a, 7b, Kinojevis Group, 7c Kinojevis Group, (Middle Fm., Tisdale Group)

6 6a Larder Lake Group, 6b Stoughton-Roquemaure Group, 6c Lower Fm., Tisdale Group

5 5c Porcupine Group

Lower Supergroups

4 4a Skead Group, 4b Hunter Mine Group, 4c Upper Fm., Deloro Group

3 3a Catherine Group, 3c Middle Fm., Deloro Group

2 2a Wabewawa Group, 2c Lower Fm., Deloro Group

1 1a Pacaud tuffs ****

*a refers to Kirkland Lake Area, south limb of synclinorium (Jensen 1978c, 1979).
**b refers to Kirkland Lake Area, north limb of synclinorium (Jensen 1976, 1978b).
***c refers to Timmins Area (Pyke 1980)
**** (Goodwin 1965).

Figure 3 . Geological map of the Timmins - Kirkland Lake area.

TABLE 1

STRATIGRAPHY IN EASTERN ABITIBI BELT

UPPER SUPERGROUP	TIMISKAMING GROUP
	BLAKE RIVER GROUP
	KINOJEVIS GROUP
	STOUGHTON-ROCQUEMAURE GROUP
LOWER SUPERGROUP	PORCUPINE GROUP
	HUNTER MINE GROUP (SKEAD GROUP EQUIVALENT)
	CATHERINE GROUP
	WABEWAWA GROUP

* after Jensen and Langford, 1985

The Kirkland Lake gold mines are hosted by the Timiskaming Group which is the upper alkalic part of the second cycle. It is comprised of both volcanic, intrusive and sedimentary rocks. Gold mineralization is associated with a steeply dipping, easterly trending structural discontinuity known as the Larder Lake Break. In the Kirkland Lake area the Larder Lake Break is at or close to the south edge of the Timiskaming Group (Coad, 1992).

6.0 Local Geology

On a local scale, the property is underlain by units belonging to the Gauthier and Kinojevis Groups (Figure 4). The Gauthier Group consists of an assemblage of intermediate to felsic pyroclastics, ranging from ash tuffs to agglomerates, and containing occasional conglomeratic sections. Their bulk chemistry is often of a calc-alkalic affinity, and they have been correlated to the Skead pyroclastics. The Kinojevis Group consists mostly of tholeiitic mafic metavolcanics, either iron tholeiites or magnesium tholeiites. Both of these units have been folded into the Spectacle Lake anticline, as shown in Figure 4, such that the Gauthier Group occupies the core of the anticline and the Kinojevis occupies the limbs.

7.0 Summary of the 1994 Program

Work done by Royal Oak in 1994 consisted of a diamond drilling program and an Induced Polarization (I.P.) survey. This I.P. survey was composed of two parts:

1 a detailed survey at 25m dipoles along east-west lines to detail selected anomalies detected by Sudbury Contact's I.P. survey, and

2 A more reconnaissance-type survey at 50m dipoles along north-south lines in order to attempt to detect any east-west oriented anomalies which may have important relationships to gold mineralization in this area. As well, one test line was run to the north as a test to see if the mineralization intersected in hole LM94-5 could be detected. Several short north-south lines were also read in the west-central portions of the imperial grid in order to search for a 4-channel HEM anomaly that was not detected by any previous surveys. This I.P. survey was conducted by Timmins Geophysics Ltd. of Sudbury and the results are reported under a separate cover.

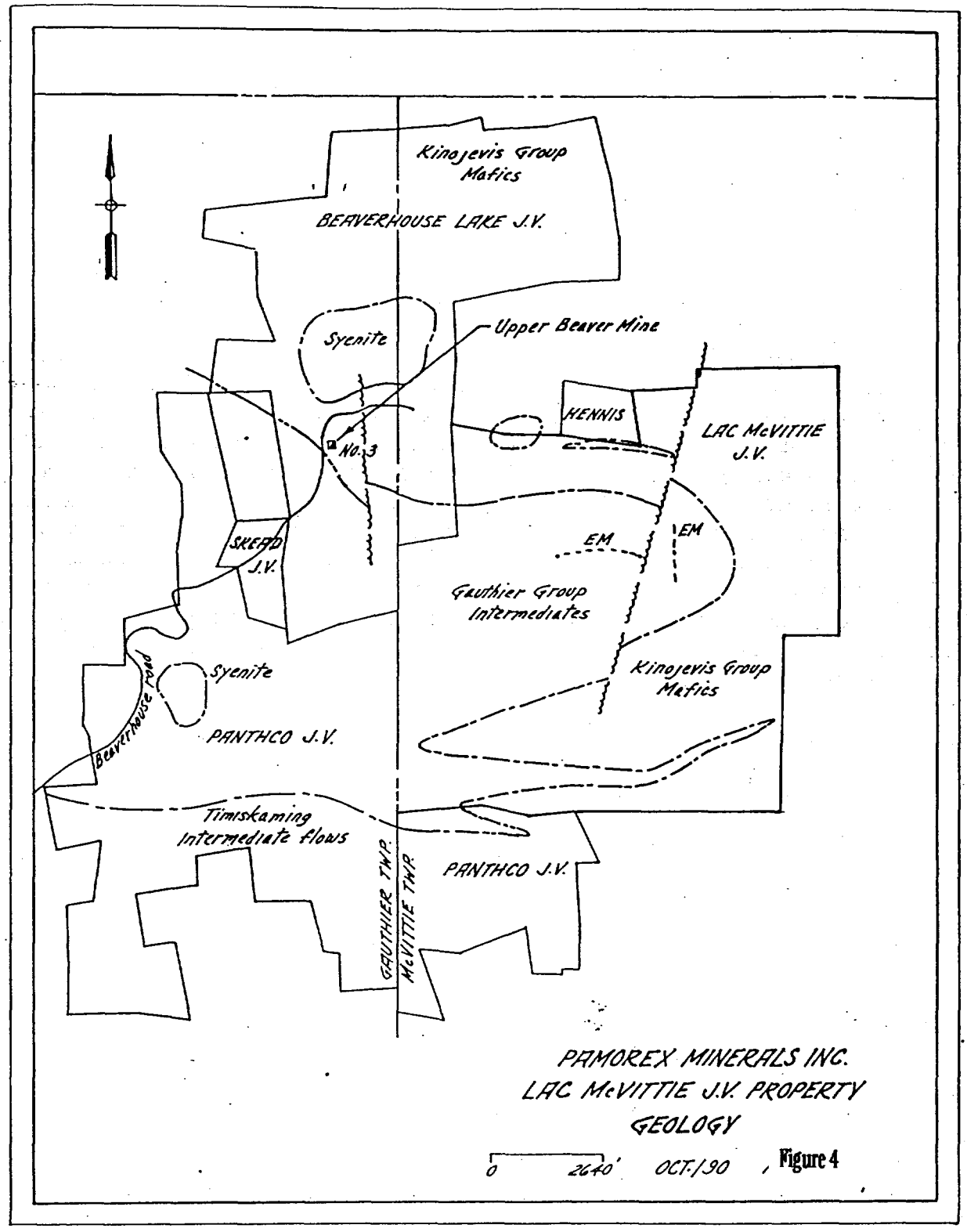

Kinojevis Group
Mafics
BEAVERHOUSE LAKE J.V.
Syenite
Upper Beaver Mine
No. 3
HENNIS
LAC McVITTIE
J.V.
SKEAD
J.V.
EM
EM
Gauthier Group
Intermediates
Kinojevis Group
Mafics
Syenite
Beaverhouse Road
PANTHCO J.V.
Timiskaming
Intermediate flows
PANTHCO J.V.
GAUTHIER TWP.
McVITTIE TWP.
PAMOREX MINERALS INC.
LAC McVITTIE J.V. PROPERTY
GEOLOGY
0
2640'
OCT./90

Figure 4

The diamond drilling program consisted of 4 holes totalling 4,590 feet being drilled between October 11 and November 3, 1994. A fifth hole (LM94-9, 764.4 ft) was drilled during December of 1994, bringing the total footage to 5,354.4 feet. The drill log and section for this hole are appended to this report. All drilling was done by Norex Diamond Drilling of Timmins. All BQ core from the first four holes was taken to Royal Oak's coreshack located on the former Upper Beaver minesite, where it was logged, sampled and stored. During the logging process, any core which seemed to be favourable for hosting gold mineralization was marked off for sampling. Sample lengths ranged from 1 foot to 6 feet in length, with many of the samples being 5 feet long. These samples were subsequently sawed on-site by Al Lacroix of Royal Oak. Those sections of core which did not appear to hold any promise were sampled by means of composite samples. In this method of sampling, a representative section of whole core, 1 to 4 inches in length, was selected at a nominal 5 foot spacing, along an interval of up to roughly 50 feet in length. These "buttons" were then placed in sample bags and sent off for analysis. In this manner, a total of 429 samples from 5 holes were chosen for gold analysis. All of these samples were processed at Royal Oak's assay office located in Schumacher, Ontario, and were analyzed for gold by means of a Fire Assay-Atomic Absorption finish with a 1AT sub-sample. In addition to these gold samples, a total of 31 samples were selected for whole rock analysis by XRAL Laboratories in Toronto, and 3 samples were selected for mineral identification by means of X-Ray Diffraction by Dr. John Huang of Laurentian University in Sudbury. All pulps from the gold samples were shipped to XRAL Laboratories for analysis using their multi-element ICP geochemical package. The raw data from the ICP analyses and the whole rock analyses are included in Appendix IV. Time permitting, a treatment and analysis of these results will be completed during the first quarter of 1995. A summary of all significant gold values from the first four holes of this 1994 program is given in Table 2.

The objective of this drill program was two-fold:

1 to test selected magnetic anomalies in the northwestern quadrant of the property for their potential of hosting gold mineralization similar to that located at the Upper Beaver Mine to the immediate west (3 DDH), and

2 to test an east-west oriented HEM anomaly detected by Pamorex Minerals for its potential of hosting gold mineralization similar in style to that being discovered at Sudbury Contact's Victoria Creek Project, located to the west in Gauthier township (1 DDH).

In addition to testing the magnetic anomalies for Upper Beaver-style mineralization, selected quadrature-response HEM anomalies were also tested for their gold potential. Summary Logs of these four drill holes (LM94-5 to 8, inclusive) are given in Appendix II,

TABLE 2

LAC McVITTIE JOINT VENTURE
SIGNIFICANT RESULTS FROM THE FALL '94 DRILLING PROGRAM

Hole No.	Length (ft)	Target	From-To (ft)	Grade Au/Ft	Lithology	Comments
LM94-5	1,232.0	Zone of magnetic anomalies (42+00W, 25+30N) (Dip -50 deg. @ 180 deg.)	880.2-882.6 891.0-896.0 948.3-955.1	446 ppb/2.4 1234 ppb/5.0 105 ppb/6.8	Patchy mt-cpy in mafic fragmental Trace qtz-cc veinlets in mafic fragmental Zone of sericite alteration with 10% qtz-ank-tour veining 925.3-981.0	Strong qtz-ank-tour-(py) veining 542.9-554.0 in syenite dike
LM94-6 (Proposed B)	1,416.0	Weak magnetic anomalies and quadrature-response HEM anomaly (32+00W, 28+50N) (-45 deg. @ 180 deg.)	68.2-75.5	69 ppb Au/7.3	Altered ultramafic	Qtz-tour veining with fuchsite
			93.6-96.8	137 ppb Au/3.2	Ultramafic	
			113.4-116.0	343 ppb Au/2.6	Mafic fragmental	Smsv mt-py
			156.0-166.0	137 ppb Au/10.0	Sericitized mafic fragmental	
			196.0-250.5	137 ppb Au/54.5	Sericitized mafic fragmental	Strong ser-hem alteration with +3% chl-py stringers 181.0-198.4'. Massive ser-cc alteration with 3-5% chl-py stringers 200.2-224.0'.
			341.0-401.0	137 ppb Au/60.0	Mafic fragmental	Sericite-hematite alteration zone 312.3-352.3
			732.0-736.0	274 ppb Au/4.0	Porphyritic mafic flow	
			746.0-751.0	240 ppb Au/5.0	Porphyritic mafic flow	
			876.0-891.0	137 ppb Au/15.0	Porphyritic mafic flow	Epidote-chlorite-sericite-(orthoclase) alteration 870.9-900.4'
			946.0-975.0	240 ppb Au/29.0*	Mafic fragmental	Composite sample
			1126.8-1152.9	446 ppb Au/26.1*	Porphyritic mafic flow	Composite sample
			1216.0-1226.0	137 ppb Au/10.0	Mafic fragmental	Strong epidote-mt-py-cpy alteration 1216.0-1227.0
			1252.8-1254.8	0.098 opt Au (3360 ppb)/2.0	Mafic fragmental	Semi-massive pyrite with epidote
			1346.0-1351.0	309 ppb Au/5.0	Mafic fragmental	Weak hematite alteration
LM94-7 (Proposed C)	1,136.0	Broad magnetic anomaly and quadrature-response HEM anomaly (36+00W, 34+00N) (-45 deg. @ 180 deg.)	261.0-541.0	178 ppb Au/280.0'	Mixed massive mafic flow, porphyritc mafic flow and felsic lapilli tuff	5-7% epidote-pyrite alteration 212.0-290.0'. 25-30% py brx 263.5-264.5'. Mixed hem-ser-(talc) alteration 360.2-368.3' (contains 1-3% qtz-ank veinlets + py). 7-10% qtz-ank veinlets 368.3-396.0'. Ser-(hem)-(talc) alteration zone 396.0-425.6'. Strong patchy epidote alteration 484.0-510.6'.
			638.2-767.3	126 ppb Au/129.1'	Felsic lapilli tuff	Strong ser-(hem) alteration 616.9-638.2'. 50% qtz-chl-ser veining 1061.0-1088.0'
LM94-8	806.0	East-west trending HEM anomaly (12+00W, 5+00S) (-50 deg. @ 360 deg.)	376.0-456.0 473.1-481.0 701.0-721.0	116 ppb Au/80.0'* 137 ppb Au/7.9' 214 ppb Au/20.0'	Felsic ash tuff + agglomerate Graphitic argillite Felsic lapilli tuff (chloritic?)	Composite sample 376.0-445.2 77ppm As/532.8ft (86.0-562.8), incl. 292ppm/116.8ft (446.0-562.8) Contains minor qtz-cc veinlets
LM94-9	764.4	Co-incident IP charge. + res. anomalies (32+00W, 6+00S) (-50 deg @ 180 deg)	203.0-233.0	no significant values	Fault Zone and Quartz Veining	
Total	5,354.4					

* includes composite intervals

20 December 1994

94-result1.wk4

with additional details as to the lithologies, alteration and structured encountered given in the handwritten drill logs in Appendix III. Laboratory Certificates are given in Appendix IV. Detailed drill hole cross-sections and a compilation plan map showing the hole locations are given in Appendix V. Page-size drill hole sketches are given in Figures 5, 6, 7 and 8.

8.0 Discussion of Results

The 1994 exploration program has been successful in discovering a number of strong zones of alteration and quartz veining hosted by the Kinojevis Group, as well as identifying several new geophysical (I.P.) anomalies and alteration within the Gauthier Group.

8.1 Kinojevis Group

The three holes drilled to test magnetic-HEM anomalies in the northwest corner of the property (holes LM94-5, 94-6 and 94-7) intersected a number of different styles of alteration and mineralization. These included zones of pervasive sericite-hematite-carbonate (+/- quartz-ankerite veining and pyrite), chlorite-pyrite veins and stringers, epidote-pyrite-(chalcopyrite) veins, stringers and patches, sections of magnetite-chalcopyrite, massive-brecciated-ribboned quartz-ankerite-tourmaline (+/- pyrite) veins, quartz-chlorite veins, and rare intervals of quartz-ankerite-fuchsite alteration. All of these zones were hosted by a peculiar assemblage of rock types that includes a mafic, heterolithic, fragmental-textured material, mafic-porphyritic syenite dikes, massive to plagioclase-porphyritic mafic flows, minor ultramafic flows, and minor amounts of felsic ash and lapilli tuffs. This particular assemblage of units has not been adequately described or classified by previous workers, however was felt to belong to the Kinojevis Group based on visual observations at the time of logging. A more detailed correlation/classification should become available once the results from the whole rock samples are received.

The strongest occurrences of alteration/mineralization were intersected in holes LM94-6 and LM94-7. Textural relationships of these different alteration zones suggested a complex paragenetic sequence with the pervasive sericite-hematite being the earliest and the epidote-pyrite veins and patches being relatively late in the sequence. Gold values were generally low in all three of these holes, usually being only in the 100's of ppb Au range, with the best values of 0.098 opt Au (3,360 ppb)/2.0 feet (1252.8-1254.8 ft) being returned from a zone of semi-massive epidote-pyrite in hole LM94-6. However, a great number of

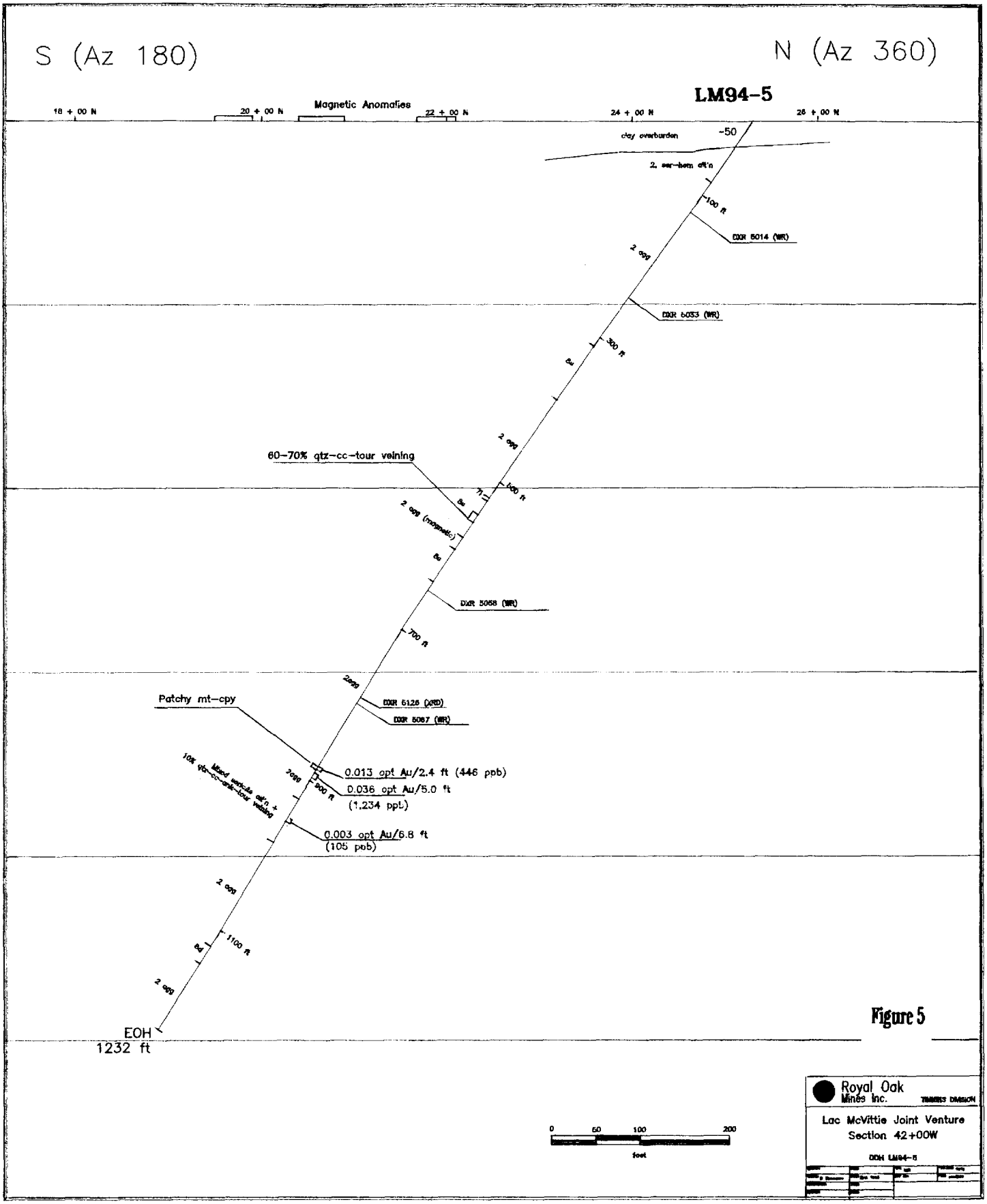

S (Az 180)
N (Az 360)
LM94-5
Magnetic Anomalies
18 + 00 N
20 + 00 N
22 + 00 N
24 + 00 N
26 + 00 N
clay overburden
-50
2, ser-hem alt'n
100 ft
DDH 5014 (WR)
2 ggg
DDH 5053 (WR)
300 ft
6d
2 ggg
60-70% qtz-cc-tour veining
5d
71
400 ft
2 ggg (magnetic)
6a
DDH 5058 (WR)
700 ft
2ggg
DDH 5126 (XRD)
DDH 5087 (WR)
Patchy mt-cpy
0.013 opt Au/2.4 ft (446 ppb)
2ggg
900 ft
0.036 opt Au/5.0 ft
(1,234 ppb)
10% qtz-cc-ank-tour veining
Mixed sericite alt'n +
0.003 opt Au/6.8 ft
(105 ppb)
2 ggg
6d
1100 ft
2 ggg
EOH
1232 ft
0
50
100
200
feet
Royal Oak
Mines Inc.
TIMMINS DIVISION
Lac McVittie Joint Venture
Section 42+00W
DDH LM94-5

Figure 5

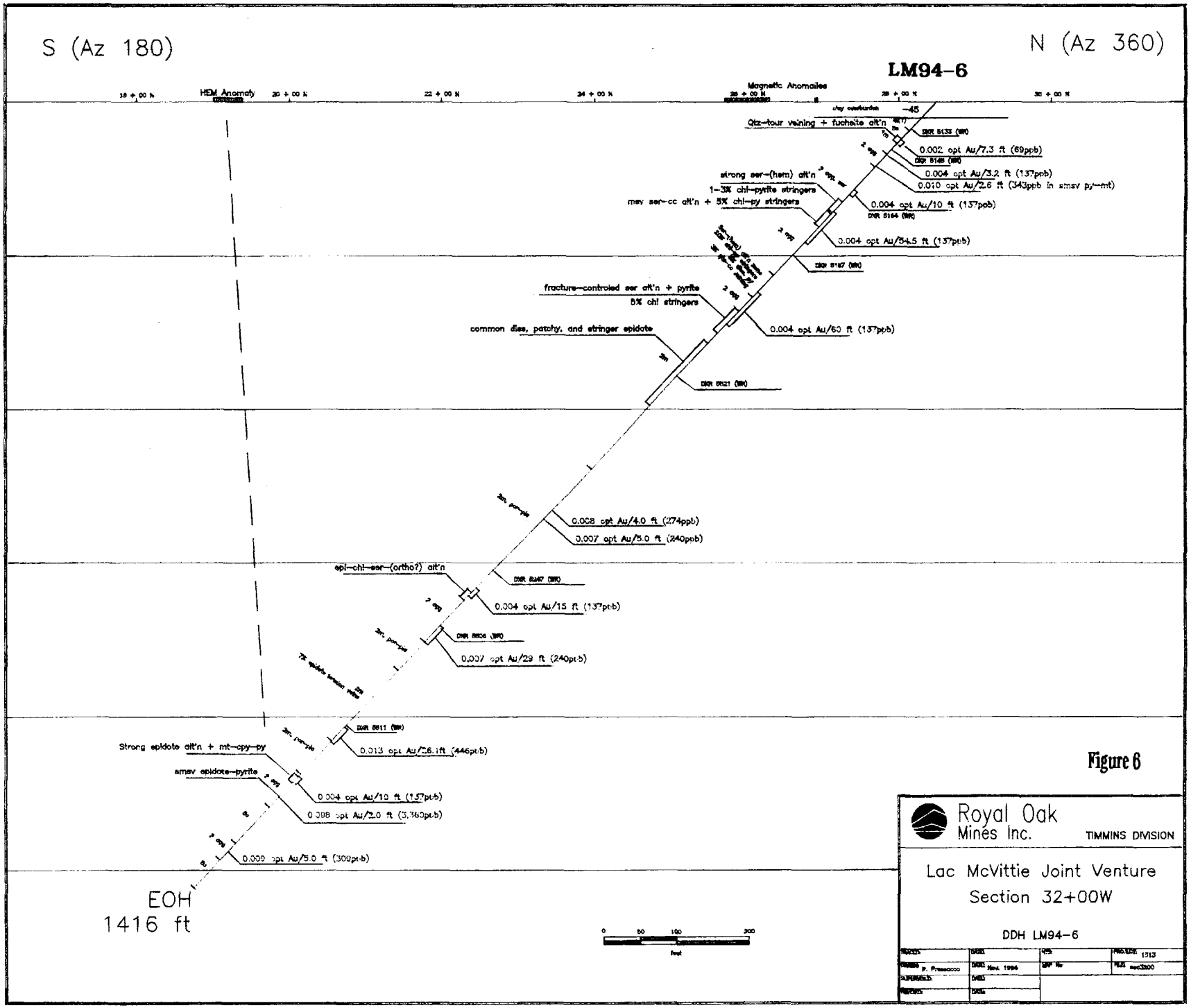


Figure 6

Royal Oak Mines Inc. TIMMINS DIVISION

Lac McVittie Joint Venture
Section 32+00W

DDH LM94-6

			1513
P. Frascoco	Nov. 1996		sec3200

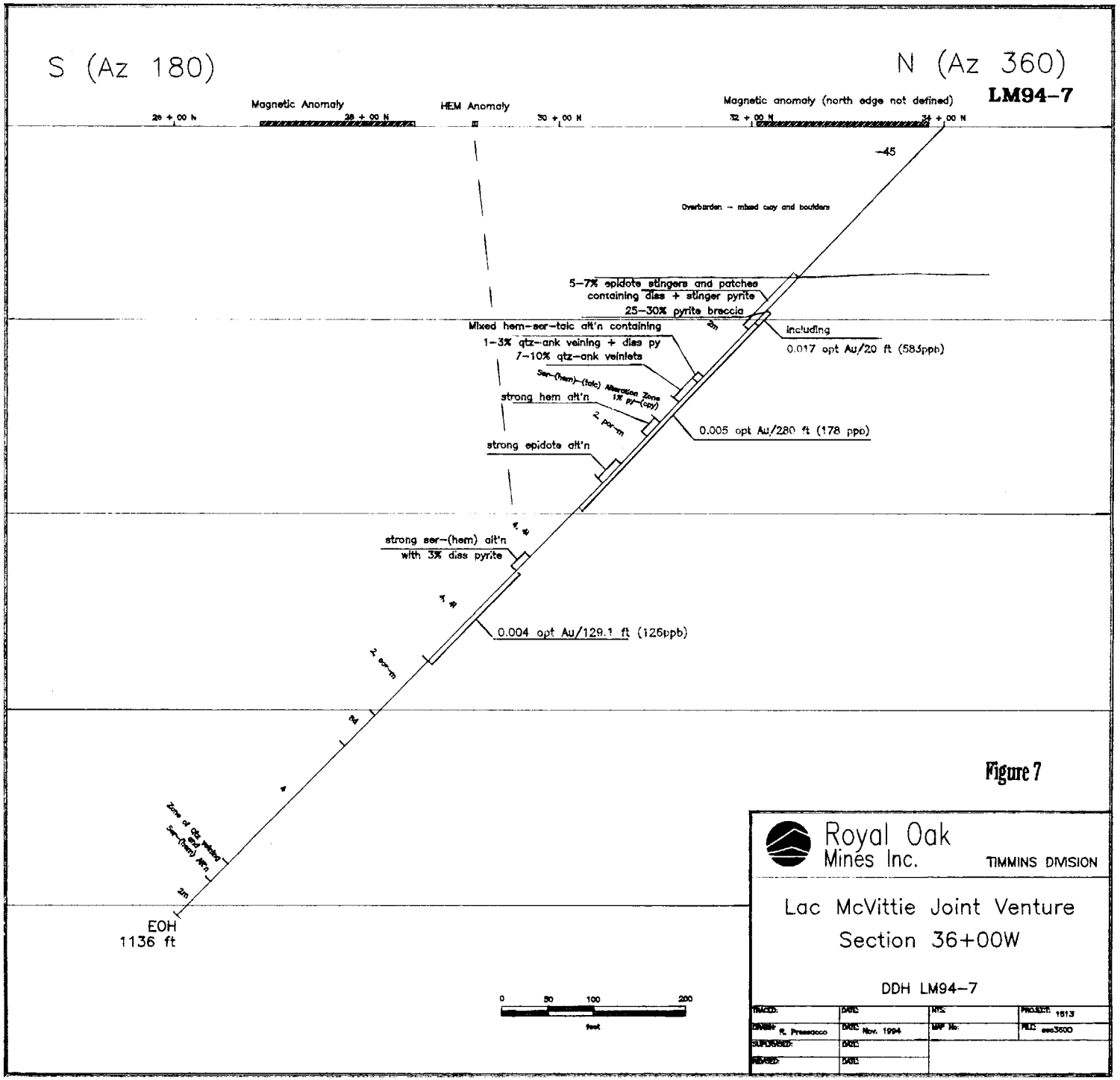


Figure 7

Royal Oak Mines Inc. TIMMINS DIVISION

Lac McVittie Joint Venture
Section 36+00W

DDH LM94-7

TRACED:	DATE:	NTS:	PROJECT: 1513
DRAWN: R. Presacco	DATE: Nov. 1994	MAP No.	FILE: sec3600
SUPERVISED:	DATE:		
REVISED:	DATE:		

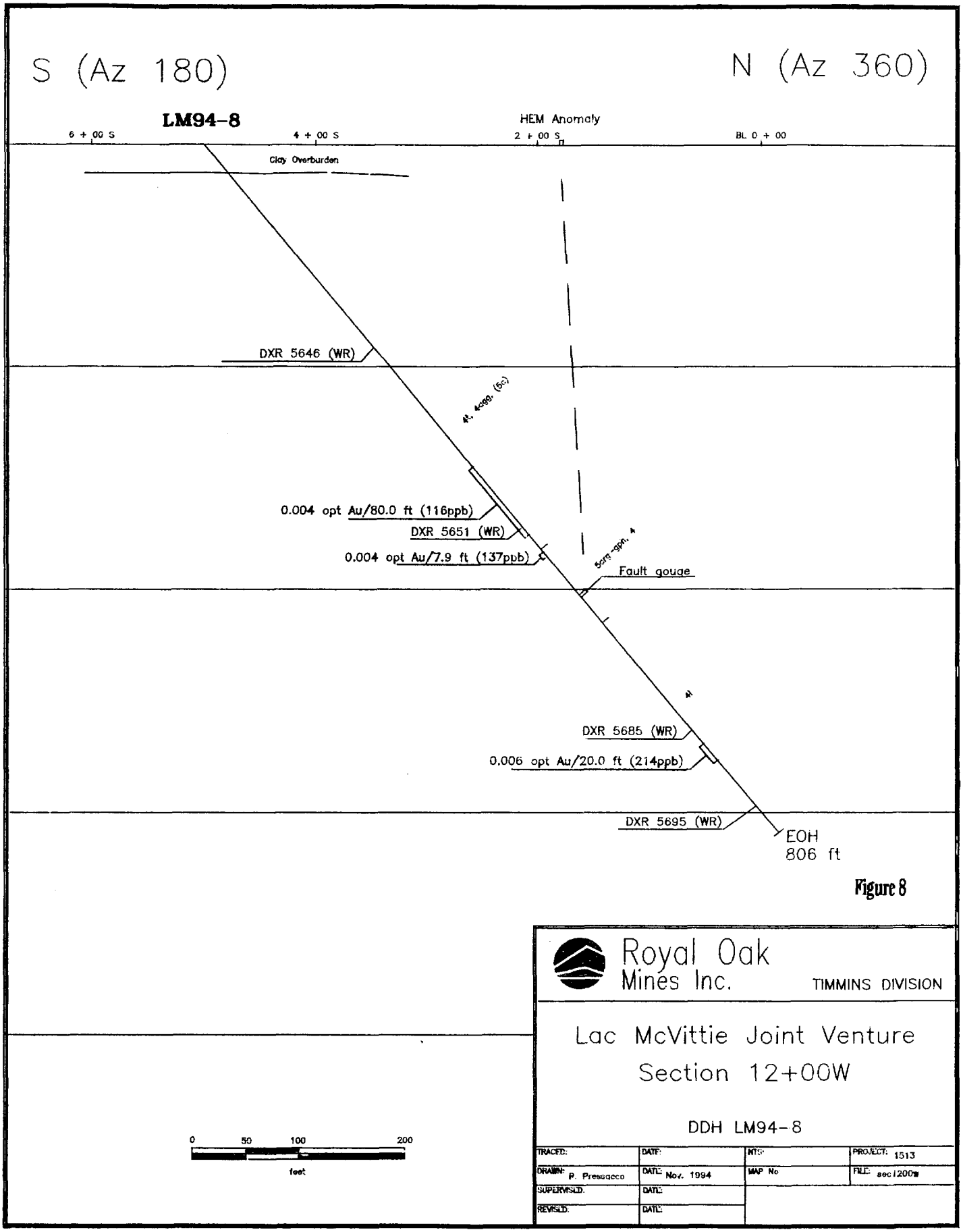


Figure 8

Royal Oak Mines Inc. TIMMINS DIVISION

Lac McVittie Joint Venture
Section 12+00W

DDH LM94-8

TRACED:	DATE:	NTS:	PROJECT: 1513
DRAWN: P. Pressacco	DATE: Nov. 1994	MAP No	FILE: sec1200w
SUPERVISED.	DATE:		
REVISED.	DATE:		

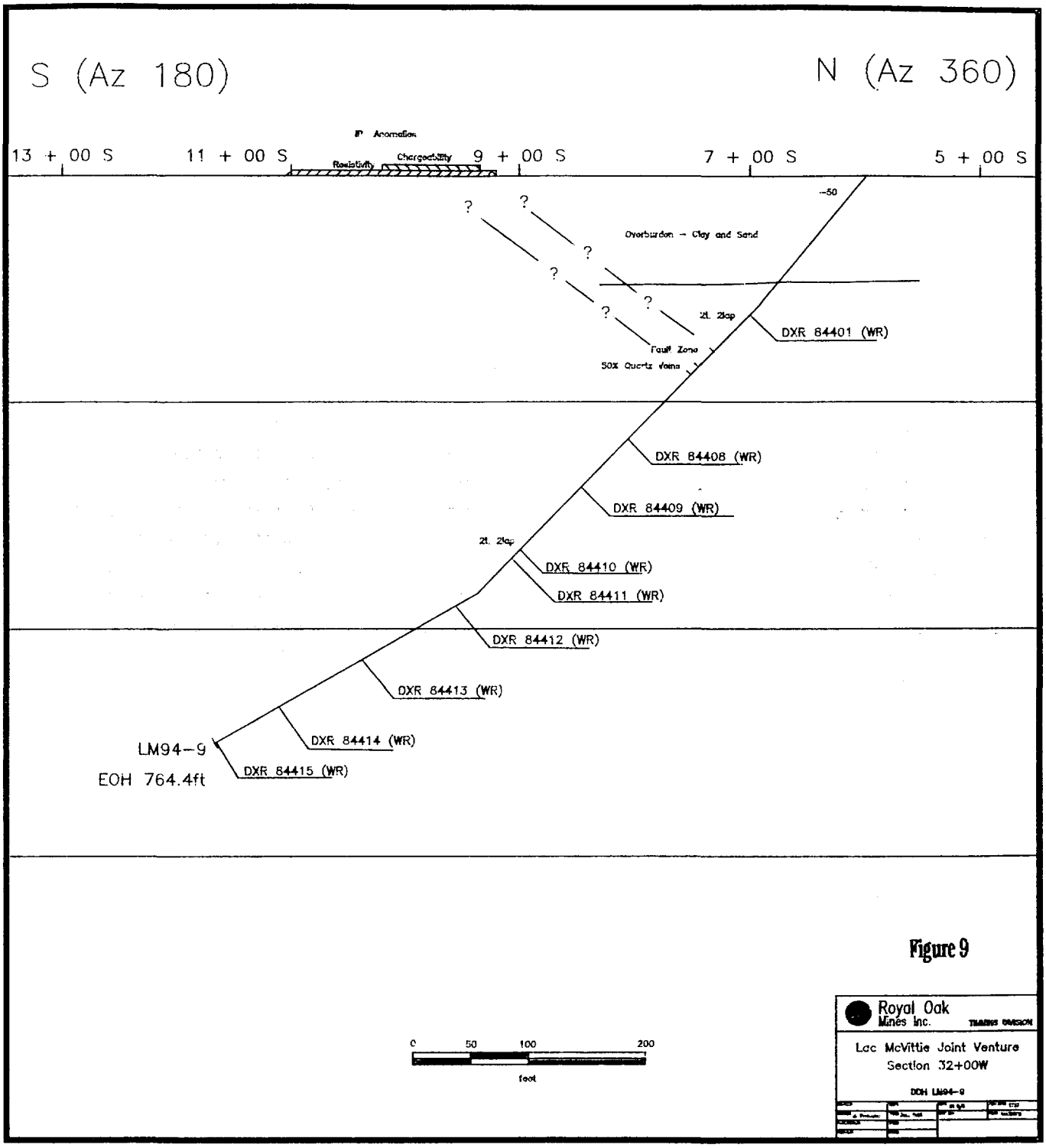

S (Az 180)
N (Az 360)
IP Anomalies
13 + 00 S
11 + 00 S
Resistivity
Chargeability
9 + 00 S
7 + 00 S
5 + 00 S
-50
Overburden - Clay and Sand
?
Fault Zone
50% Quartz Veins
Lt. Clay
DXR 84401 (WR)
DXR 84408 (WR)
DXR 84409 (WR)
DXR 84410 (WR)
DXR 84411 (WR)
DXR 84412 (WR)
DXR 84413 (WR)
DXR 84414 (WR)
DXR 84415 (WR)
LM94-9
EOH 764.4ft
0
50
100
200
feet
Royal Oak Mines Inc.
Lac McVittie Joint Venture
Section 32+00W
DDH LM94-9

Figure 9

geochemically anomalous gold values, at times across large widths (e.g. 178 ppb Au/280.0 feet and 126 ppb Au/179.1 feet in hole LM94-7), were intersected by holes LM94-6 and LM94-7. These values do not seem to follow any particular type of alteration, but are hosted by all rock types and all styles of alteration. This is considered to be encouraging, as it suggests the presence of a gold-bearing hydrothermal system of sufficient strength and size to form such a diverse and pervasive geochemical halo. The detailed relationship between gold values and the different alteration/mineralized zones is unknown at the present, and time constraints preclude a detailed evaluation at this time.

As mentioned in Section 7.0, several samples of unknown minerals were taken for identification by means of X-Ray Diffraction. Sample No. DXR5126 was taken of a purplish coloured mineral that occurred in veins in hole LM94-5 at roughly 875.0-1075.0 feet. Initially this mineral was thought to be a purple-coloured fluorite, although it was seen to be much too hard. The results of the XRD analysis shows this mineral to be Axinite $(Ca, Fe^{2+}, Mn)_3 Al_2 (BO_3) (Si_4O_{12}) (OH)$, part of the same family of minerals that includes beryl and tourmaline. A second occurrence of this mineral was observed in either hole LM94-6 or LM94-7. The significance of the presence of this mineral vis-a-vis the gold mineralization is unknown at present.

Sample No. DXR5627 was taken of a reddish-brown coloured mineral that occurred in a quartz vein in association with calcite in hole LM94-7 (1083.0 ft). Initially this mineral was thought to be selenite, but the results of the XRD analysis showed that it is Anhydrite ($CaSO_4$).

Sample No. DXR5634 was taken of a red-brown mineral that occurred in a larger patch of epidote, and was thought to be some type of garnet. The results of the XRD studies showed that this mineral is indeed a garnet, specifically Andradite ($Ca_3 Fe_2 Si_2 O_{12}$). The significance of this mineral is not understood.

In terms of the original goal of the drill program, the magnetic anomalies were found to be caused by occurrences of both discrete beds/patches of magnetite and as magnetic sections of heterolithic mafic fragmentals. In the two cases where beds of magnetite were observed (LM94-5 and LM94-6) both contained significant quantities of chalcopyrite, and are thus very similar to some of the ore that was mined at the Upper Beaver Mine in the past (Roberts and Morris, 1982). In the two cases where a quadrature-response Max-Min anomaly was tested, an occurrence of disseminated (LM94-7) and semi-massive (LM94-6) pyrite was noted in the core where the anomaly was expected to be located. Despite comments to the fact that these HEM anomalies are caused only by changes in the

bedrock topography, it is felt here that they are at least in part caused by some type of metallic source, and as such present good exploration targets (the anomaly intersected by hole LM94-6 returned a value of 0.098 opt Au/2.0 feet, and the anomaly intersected by hole LM94-7 flanked a large zone of geochemically anomalous gold values).

8.2 Gauthier Group

Hole LM94-8 was drilled in the Gauthier Group, and was successful in explaining the source of an east-west trending HEM anomaly as being a section of graphitic argillite containing patchy, nodular and bedded pyrite. Three intervals of geochemically anomalous gold values were intersected, however no significant gold values were located (Figure 8). LM94-9 was also drilled in the Gauthier Group and intersected 20 feet of fault gouge, lost core and quartz veining that is interpreted to be the source of the coincident I.P. chargeability and resistivity highs.

9.0 Conclusions and Recommendations

On the basis of the information presented above, the following conclusions may be drawn:

1 The 1994 exploration program was successful in discovering new zones of alteration and mineralization that contained associated geochemically anomalous gold values. As well, a number of new geophysical (I.P.) anomalies were detected by recent surveys run along north-south lines.

2 The source of the magnetic anomalies that were tested by diamond drilling were found to be either discrete "beds" of magnetite or as sections of magnetic mafic fragmental units. Where magnetite "beds" were encountered, they contained significant quantities of chalcopyrite, and are thus quite similar to the ore that was mined at the Upper Beaver Mine in the past. As such, magnetic anomalies remain valid exploration targets.

3 The source of the quadrature-response HEM anomalies was found to be caused by occurrences of disseminated to semi-massive sulphides, that in one case returned a value of 0.098 opt Au/2.0 feet. Despite comments to the contrary (Londry, 1994), it is felt that these types of HEM anomalies remain valid exploration targets in this area.

4 A large number of alteration/mineralized zones were intersected by the three drill holes in the northwestern portion of the property. Textural relationships suggest that these zones have a complex paragenetic history.

5 A number of geochemically anomalous gold values were encountered by the 1994 drill holes, at times across large widths. These values do not seem to correlate to any one particular type of alteration, but are hosted by all styles of alteration and rock types, even the most barren-looking of host rocks. This is encouraging as it suggests the presence of a gold-bearing hydrothermal system of sufficient size and strength to form such a diverse and pervasive geochemical halo.

6 The occurrence of anhydrite in the quartz veins is felt to have strong implications for gold mineralization. If one assumes that the minerals found in these veins formed from the material carried in the solutions/fluids that were flowing through these veins, then the chemistry of these solutions that formed the anhydrite must have been such that sulphate molecules were stable in the fluids. This suggests that the fluids were in an oxidized state in order for the sulphate molecules to be stable (Barnes, 1979). The current thinking in the solution, transport and deposition of gold is that a reducing fluid is required to transport the gold, such that any sulphur contained in that fluid exists as either an S^2, HS^- or H_2S molecule. Experimental studies have shown that these reduced sulphur species are far more efficient in transporting gold in solution than are sulphate species. The occurrence of anhydrite then, is a negative point, in that it suggests that the fluids that formed the quartz veins were in too oxidized a state to transport any significant quantities of gold. From an exploration perspective, the occurrence of quartz veins in this area must then be downgraded as exploration targets.

7 The I.P. survey was successful in detecting a number of new bedrock-hosted anomalies in the Gauthier Group that are oriented in a roughly east-west direction. The detailed surveys over anomalies previously detected by a gradient-array I.P. survey were found to be either due to a real bedrock source, outcrop effects, or some type of shallow, surficially located anomaly.

Recommendations include:

1 The amount of pyrite associated with the alteration intersected in holes LM94-5, 94-6 and 94-7 and the apparent relationship to the quadrature-response HEM anomalies suggests that they should present an excellent target for additional I.P. surveys. The presence of associated widespread but low gold values suggests that a good probability exists for the presence of economically exploitable gold mineralization. Additional surveys are recommended over the Kinojevis Group lithologies in the northern portion of the property.

2 Additional I.P. surveying is recommended over the Gauthier Group lithologies located in the central portions of the property, along north-south lines. The I.P. surveys that were done this year were successful in detecting a number of new anomalies, any one of which has the potential of hosting gold mineralization similar to that at Victoria Creek to the west.

3 Following completion of the surveys described above, a diamond drill program is recommended in order to test selected existing geophysical targets (magnetic, HEM and I.P. anomalies) and to test any new anomalies that are judged to be of interest.

10.0 References

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APPENDIX I

List of Claims

c LN~ work W9480

DUEDATES

CLAIM NO.	RECORDED DATE	$'S DONE	DATE DUE	DUE	TYPE	CREDITS AVAIL.	WORK DUE	NOTES	DATE DONE	REMARKS
PROJECT NAME : LAC MCVITTIE										
~~L1185431-~~	~~06/20/1931~~	~~1200.00~~	~~06/26/1996~~	~~WORK~~	~~ASSESSMENT~~	~~0.00~~	~~400.00~~		/ /	
L767439	08/16/1983	4800.00	08/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L767447	08/16/1983	5200.00	08/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L767701	08/16/1983	5484.00	08/16/1996	WORK	ASSESSMENT	284.00	400.00		/ /	$84.00 CREDITS APPLIED
L1202836-	08/26/1994	0.00	08/26/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1110272	11/16/1989	2400.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00	$21,774.00 BANKED	/ /	
L1110273	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1110274	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1110275	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1110276	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1111183	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1111184	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1111185	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1111186	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1137128	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1137129	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1137130	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1137131	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1137134	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L1137135-	11/16/1989	2800.00	11/16/1996	WORK	ASSESSMENT	0.00	400.00		/ /	
L802384-	06/08/1984	5000.00	06/08/1997	WORK	ASSESSMENT	200.00	400.00		/ /	
L767405	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00	$7069.00 BANKED ON 62	/ /	
L767406	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767407	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767409	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767415	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767417	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767418	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767419	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767425	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767426	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767427	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767428	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767429	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767435	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767436	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767443	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767444	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767445	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767446	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767451	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767452	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767453	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767454	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767455	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767456	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
L767457	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	

PAGE NO. 2

CLAIM NO.	RECORDED DATE	$'S DONE	DATE DUE	DUE	TYPE	CREDITS AVAIL.	WORK DUE	NOTES	DATE DONE	REMARKS
767460	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
767461	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
767462	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
767463	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
767464	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
767465	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
767466	08/16/1983	5200.00	08/16/1997	WORK	ASSESSMENT	0.00	400.00		/ /	
1111102	11/16/1989	2800.00	11/16/1997	WORK	ASSESSMENT	18.00	400.00		/ /	
767408	08/16/1983	5200.00	08/16/1998	WORK	ASSESSMENT	0.00	400.00		/ /	
767416	08/16/1983	5200.00	08/16/1998	WORK	ASSESSMENT	0.00	400.00		/ /	
767437	08/16/1983	5200.00	08/16/1998	WORK	ASSESSMENT	81.00	400.00		/ /	
767438	08/16/1983	5200.00	08/16/1998	WORK	ASSESSMENT	0.00	400.00		/ /	

59 Claims

APPENDIX II

Summary Logs

LAC McVITTIE JOINT VENTURE
SUMMARY LOG

Hole Number:	LM94-5
Dates Drilled:	October 12-18, 1994
Drilling Contractor:	Norex Diamond Drilling, Timmins
Township:	McVittie, Larder Lake Mining Division
Claim No.:	767460 (6.5%) and 767451 (93.5%)
Collar Coordinates:	42+00W, 25+30N, Dip -50° at Azimuth 180°
Length:	1,232 feet
Casing:	All NW and BW casing left in place. Hole capped and marked.
Purpose of Hole:	To test magnetic anomalies for Upper Beaver-style mineralization.
Logged By:	R. Pressacco
Core Size:	BQ

RESULTS

Geology

This hole intersected a thick accumulation of a heterolithic mafic fragmental material that contained minor amounts of a very fine grained, mafic porphyritic, reddish-pinkish coloured syenite dike. These mafic fragmentals may be some type of primary pyroclastic material, or some type of a re-worked pyroclastic flow, or some type of a debris flow. No clear evidence was seen to provide a clear indication of their origins. This material was massive textured throughout, with no indications of bedding or foliations to suggest which way the units are dipping.

Several zones of alteration and quartz veining were intersected in this hole. A well developed fracture-controlled sericite alteration was intersected at 155.0-177.0 feet, a weak pervasive sericite-hematite alteration with 3-5% disseminated and patchy pyrite was intersected at 222.0-229.0 feet, a strong section of quartz-ankerite-tourmaline veining hosted by a syenite dike was intersected at 542.9-554.0 feet, and a zone of sericitic alteration associated with 7-10% quartz-ankerite-tourmaline veins was intersected at 925.3-981.0 feet. A narrow zone of Upper Beaver-style mineralization (mt-cpy) was intersected at 880.2-882.6 feet.

Gold values were low in general, with values of 446 ppb Au/2.4 feet being returned from the mt-cpy interval, 1,234 ppb Au/5.0 feet being returned from trace amounts of quartz-calcite veinlets in a mafic fragmental, and 105 ppb Au/6.8 feet being returned from a section of sericitic alteration with quartz veins at 948.3-955.1 feet.

Sampling

All samples from this hole were sawed and assayed for gold using a Fire Assay-Atomic Absorption finish on a 1AT sub-sample by the Royal Oak Mines Inc. assay laboratory in Schumacher, Ontario. A total of 122 samples were taken for gold analysis. Four samples were taken for whole rock analysis and one sample was taken for XRD analysis. All sample pulps from the gold samples were sent to XRAL Laboratories for a 31 element ICP analysis.

Core/Rejects

All the core from this hole is stored in the coreshack located on the Upper Beaver minesite. All pulps from the gold samples were kept, but the rejects from these samples have been discarded.

Summary Log - Hole LM94-5

Feet From	Feet To	Description
0.0	30.0	NW & BW casing. All casing left in hole and hole was capped.
30.0	83.1	Altered Mafic Flow. Moderate to strongly developed hematite-sericite-calcite alteration.
83.1	311.0	Massive to Fragmental Textured Mafic. Weak pervasive and stringer hematite alteration. Well developed fracture-controlled sericite alteration 155.0-177.0 ft (35° TCA). 3-5% disseminated and patchy pyrite 222.0-229.0 ft associated with weak pervasive sericite-hematite alteration. Moderate hematite alteration 244.0-256.0 ft.
311.0	385.2	Hematitic Syenite Dike. Weak quartz veining.
385.2	520.8	Heterolithic Mafic Fragmental. Weak fracture and pervasive hematite alteration throughout. 1-3% epidote overall in veins/stringers.
520.8	524.9	Lamprophyre (?) Dike.
524.9	574.0	Syenite Dike. Strong quartz-ankerite-tourmaline veining containing rare disseminated pyrite 542.9-554.0 ft.
574.0	591.0	Magnetic Mafic Fragmental.
591.0	634.4	Syenite Dike. Mafic porphyritic.
634.4	925.3	Fragmental Textured Mafic. 1% patchy cpy with magnetite 880.2-882.6 ft.
925.3	981.0	Sericitic, Quartz Veined Zone. Moderate pervasive sericite containing 7-10% quartz-ankerite-tourmaline veins. 75% qtz-carb-tour 955.1-961.0 ft.
981.0	1121.3	Mafic Fragmental.
1121.3	1143.8	Syenite Dike. Mafic porphyritic.
1143.8	1232.0	Mafic Fragmental.
1232.0		End of Hole

LAC McVITTIE JOINT VENTURE
SUMMARY LOG

Hole Number:	LM94-6
Dates Drilled:	October 18-24, 1994
Drilling Contractor:	Norex Diamond Drilling, Timmins
Township:	McVittie, Larder Lake Mining Division
Claim No.:	767461 (30.4%) and 767452 (69.6%)
Collar Coordinates:	32+00W, 25+50N, Dip -45° at Azimuth 180°
Length:	1,416 feet
Casing:	NW casing to 23 feet, BW casing to 30 feet. Both casings left in place. Hole was capped and marked. Hole making water under pressure.
Purpose of Hole:	To test weak magnetic anomalies for Upper Beaver-style mineralization, and to test a quadrature-response HEM anomaly.
Logged By:	R. Pressacco
Core Size:	BQ

RESULTS

Geology

The lithologies intersected by this drill hole consisted of an intercalated assemblage of heterolithic mafic fragmentals and massive to plagioclase-porphyritic mafic flows. Minor amounts of syenite intrusives were intersected at the bottom of the hole.

This hole intersected a number of alteration and quartz veined zones throughout its length. A zone of quartz-fuchsite veining was intersected at 23.0-30.0 feet (cored by the BW casing). A zone of quartz-tourmaline veining with fuchsite alteration (trace pyrite) was intersected at 68.2-75.5 feet. 50% quartz-calcite veining containing tourmaline and 1-3% coarse patchy chalcopyrite was intersected at 104.4-104.9 feet. A strong pervasive sericitic alteration zone containing 1% quartz and 1-3% vfg disseminated pyrite was intersected at 117.5-137.0 feet. A zone of strong pervasive sericite alteration with 1-3% patchy and stringer chlorite-pyrite veins was intersected at 181.0-198.4 feet. A massive sericite-calcite altered section containing 3-5% chlorite-pyrite stockworking was intersected at 200.2-224.0 feet. An alteration zone of mixed sericite-hematite-calcite-(talc) alteration containing to 20% chlorite-pyrite stockworking was intersected at 312.3-325.3 feet. A zone of strong epidote alteration was intersected at 436.0-546.0 feet. A mafic-porphyritic mafic flow containing 5-7% epidote-pyrite-(chalcopyrite) stringers was intersected at 1025.4-1152.9 feet, and several zones of strong epidote alteration containing abundant pyrite-chalcopyrite-magnetite were intersected at 1213.0-1272.8 feet (possible HEM anomalies).

Low gold values were returned from many sections of the hole: 69 ppb/7.3' (68.2-75.5), 137 ppb/3.2' (93.6-96.8), 343 ppb/2.6' (113.4-116.0), 137 ppb/10.0' (156.0-166.0), 137 ppb/54.5' (196.0-250.5), 137 ppb/60.0' (341.0-401.0), 274 ppb/4.0' (732.0-736.0), 240 ppb/5.0' (746.0-751.0), 137 ppb/15.0' (876.0-891.0), 240 ppb/29.0' (946.0-975.0), 446 ppb/26.1' (1126.8-1152.9), 137 ppb/10.0' (1216.0-1226.0), 3,360 ppb/2.0' (1252.8-1254.8) and 309 ppb/5.0' (1346.0-1351.0).

Sampling

All samples from this hole were sawed and assayed for gold using a Fire Assay-Atomic Absorption finish on a 1AT sub-sample by the Royal Oak Mines Inc. assay laboratory in Schumacher, Ontario. A total of 155 samples were taken for gold analysis and 9 samples were taken for whole rock analysis. All sample pulps from the gold samples were sent to XRAL Laboratories for a 31 element ICP analysis.

Core/Rejects

All the core from this hole is stored in the coreshack located on the Upper Beaver minesite. All pulps from the gold samples were kept, but the rejects from these samples have been discarded.

Summary Log - Hole LM94-6

Feet From	Feet To	Description
0.0	30.0	Casing. All NW casing (23 ft) and BW casing (30 ft) left in place. Hole making water under pressure. BW core recovered for the 23-30 ft interval - qtz-fuchsite altered 23-25 ft and coarse sericitic fragmental (Gauthier?) 25-30 ft.
30.0	52.6	Sericitic Lapilli Tuff (Gauthier Group?)
52.6	68.2	Hematitic Syenite Dike.
68.2	96.8	Ultramafic Material (Talc-serpentine). Zone of quartz-tourmaline veining and fuchsite alteration (trace pyrite) 68.2-75.5 ft.
96.8	117.5	Mafic Fragmental. 50% qtz-calcite veining with tourmaline and 1-3% coarse patchy chalcopyrite 104.4-104.9 ft.
117.5	224.0	Sericitized Mafic Fragmental. 1-3% vfg disseminated anhedral pyrite in strongly sericitic interval 117.5-137.0 ft. 1% qtz veining overall. 181.0-198.4: strong, massive sericite alteration with 1-3% patchy + stringer chlorite and associated trace-1% vfg pyrite. 200.2-224.0: massive sericite-calcite altered section with 3-5% chlorite stockworking containing 1-3% vfg pyrite.
224.0	312.3	Mafic Fragmental.
312.3	352.3	Alteration Zone. Mixed sericite-hematite-calcite-(talc) alteration containing to 20% chlorite stockworking. 1-3% vfg disseminated pyrite (locally 5%), 1-3% quartz veinlets.
352.3	378.4	Mafic Fragmental.
378.4	660.9	Massive Mafic Flow. Weak-moderate fracture controlled sericite alteration 378.4-418.0 ft. Strong epidote alteration 436.0-546.0 ft.
660.9	900.4	Plagioclase Porphyritic Mafic Flow.
900.4	975.0	Mafic Fragmental.
975.0	1025.4	Plagioclase Porphyritic Mafic Flow.

Feet From	Feet To	Description
1025.4	1152.9	Mafic Porphyritic Mafic Flow. 5-7% epidote stringers containing vfg disseminated pyrite and rare chalcopyrite.
1152.9	1213.0	Plagioclase Porphyritic Mafic Flow.
1213.0	1272.8	Mafic Fragmental. Strong epidote alteration throughout. 50% epidote containing 3% combined chalcopyrite-pyrite (cpy >> py). 1216.0-1227.0: 5% magnetite. Possible HEM anomaly. Semi-massive pyrite with epidote (py = epidote) 1253.5-1254.4 ft. Possible HEM anomaly.
1272.8	1337.0	Syenite Dike. Weakly magnetic.
1337.0	1366.2	Mafic Fragmental (?)
1366.2	1416.0	Syenite Dike.
1416.0		End of Hole

LAC McVITTIE JOINT VENTURE
SUMMARY LOG

Hole Number:	LM94-7
Dates Drilled:	October 24-29, 1994
Drilling Contractor:	Norex Diamond Drilling, Timmins
Township:	McVittie, Larder Lake Mining Division
Claim No.:	767461
Collar Coordinates:	36+00W, 34+00N, Dip -45° at Azimuth 180°
Length:	1,136 feet
Casing:	NW casing to 130 feet, BW casing to 212 feet. Both casings were sanded together and were left in place. Hole was capped and marked.
Purpose of Hole:	To test a broad magnetic anomaly and a quadrature-response HEM anomaly.
Logged By:	R. Pressacco
Core Size:	BQ

RESULTS

Geology

The overburden was found to be substantially deeper in this area, with 212 ft of casing being required. The lithologies subsequently intersected by this drill hole consisted of a mixed assemblage of massive to mafic-porphyritic mafic flows and "felsic" flows/"felsic" fragmental textured interval. Minor amounts of dioritic dike material were also encountered. As with holes LM94-5 and 94-6, a number of zones of alteration and quartz veining were encountered. A section of 5-7% epidote-pyrite alteration was intersected at 212.0-290.0 ft, with a short section of 25% pyrite-matrix breccia being present at 263.5-264.5 ft. Rare chalcopyrite associated with quartz veinlets was observed throughout the 212.0-290.0 ft section. A zone of mixed hematite-sericite-(talc?) alteration containing 1-3% quartz-ankerite veinlets and 2% pyrite was intersected at 360.7-368.3 ft. 7-10% quartz-ankerite veinlets were intersected at 368.3-396.0 ft. A zone of sericite-(hematite)-(talc-chlorite) alteration containing trace-1% combined pyrite-(chalcopyrite) was encountered at 396.0-425.6 ft. Within this alteration zone, a quartz-tourmaline vein was present at 419.5-421.5 ft. Strong pervasive hematite alteration was intersected at 425.6-445.0 ft, and strong patchy epidote alteration was intersected at 484.0-510.6 ft. A zone of strong pervasive sericite alteration containing 1-3% fine grained pyrite, 1-3% quartz-carbonate veining, and 3-5% chlorite-pyrite stockworking was intersected at 616.9-638.2 ft. A zone of quartz-(chlorite) veining and mixed sericite-hematite alteration containing 1-3% fine grained, subhedral pyrite was intersected at 1061.0-1088.0 ft.

Several wide zones of low gold values were encountered: 178 ppb/280.0' (261.0-541.0), includes 583 ppb/20.0' (261.0-281.0) and 126 ppb/129.1' (638.2-767.3).

Sampling

All samples from this hole were sawed and assayed for gold using a Fire Assay-Atomic Absorption finish on a 1AT sub-sample by the Royal Oak Mines Inc. assay laboratory in Schumacher, Ontario. A total of 95 samples were taken for gold analysis. Four samples were taken for whole rock analysis and 2 samples were taken for XRD analysis. All sample pulps from the gold samples were sent to XRAL Laboratories for a 31 element ICP analysis.

Core/Rejects

All the core from this hole is stored in the coreshack located on the Upper Beaver minesite. All pulps from the gold samples were kept, but the rejects from these samples have been discarded.

Summary Log - Hole LM94-7

Feet From	To	Description
0.0	212.0	NW casing to 130 ft, BW casing to 212 ft. Both casings left in hole as NW casing sanded in place. Hole capped.
212.0	396.0	Massive Mafic Flow. 5-7% epidote alteration 212.0-290.0ft containing 1-3% associated vfg pyrite. 25-30% pyrite-matrix breccia 263.5-264.5 ft. Rare chalcopyrite with quartz veinlets throughout. Mixed hematite-sericite-(talc?) alteration 360.2-368.3 ft contains 1-3% quartz-ankerite veinlets and 1% vfg pyrite. 7-10% quartz-ankerite veinlets 368.3-396.0 ft.
396.0	425.6	Sericite-(Hematite)-(Talc-Chlorite) Alteration Zone. Trace-1% combined pyrite-(chalcopyrite). Massive quartz vein with traces of tourmaline 419.5-421.5 ft.
425.6	510.6	Mafic Porphyritic Mafic Flow (?). Possible Intermediate Dike. Strong pervasive hematite alteration 425.6-445.0 ft. Strong patchy epidote alteration 484.0-510.6 ft.
510.6	767.3	Felsic Fragmental. Strong pervasive sericite alteration 616.9-638.2 ft contains 1-3% fine grained pyrite, 1% quartz-carbonate veining and 3-5% chlorite-pyrite stockworking.
767.3	845.7	Mafic Porphyritic Mafic Flow (?). Possible Intermediate Dike.
845.7	858.8	Mafic Fragmental.
858.8	890.4	Intermediate Dike.
890.4	1061.0	Felsic Flow/Flow Breccia.
1061.0	1088.0	Zone of Quartz-(Chlorite) Veining. Mixed sericite-hematite alteration. 1-3% fine grained subhedral pyrite. Roughly 50% qtz veining overall, many veins at low angles TCA.
1088.0	1136.0	Massive Mafic Flow.
1136.0		End of Hole

LAC McVITTIE JOINT VENTURE
SUMMARY LOG

Hole Number:	LM94-8
Dates Drilled:	November 1-3, 1994
Drilling Contractor:	Norex Diamond Drilling, Timmins
Township:	McVittie, Larder Lake Mining Division
Claim No.:	767446 (70.8%) and 767438 (29.2%)
Collar Coordinates:	12+00W, 5+00S, Dip -50° at Azimuth 360°
Length:	806 feet
Casing:	NW casing to 20 feet, BW casing to 30 feet. Both casings left in place, hole capped and marked.
Purpose of Hole:	To test east-west oriented, good quality HEM anomaly.
Logged By:	R. Pressacco
Core Size:	BQ

RESULTS

Geology

The lithologies intersected by this drill hole consisted of interbedded units of "felsic" lapilli tuffs to agglomerates, minor conglomeratic sections, and a section of interbedded graphitic argillite and "felsic" flow material at 473.1-558.0 feet (HEM anomaly). A narrow section of graphitic fault gouge was intersected at 527.6-579.6 feet. 50-75% quartz-calcite-(tourmaline) veins were intersected at 696.0-706.0 feet.

Several zones of low gold values were encountered: 116 ppb/80.0' (376.0-456.0), 137 ppb/7.9' (473.1-481.0), and 214 ppb/20.0' (701.0-721.0).

Sampling

All samples from this hole were sawed and assayed for gold using a Fire Assay-Atomic Absorption finish on a 1AT sub-sample by the Royal Oak Mines Inc. assay laboratory in Schumacher, Ontario. A total of 51 samples were taken for gold analysis and 4 samples were taken for whole rock analysis. All sample pulps from the gold samples were sent to XRAL Laboratories for a 31 element ICP analysis.

Core/Rejects

All the core from this hole is stored in the coreshack located on the Upper Beaver minesite. All pulps from the gold samples were kept, but the rejects from these samples have been discarded.

Summary Log - Hole LM94-8

Feet From	Feet To	Description
0.0	30.0	NW casing to 20 ft, BW casing to 30 ft. Both casings left in hole and hole capped.
30.0	473.1	Felsic to Intermediate Lapilli Tuff and Conglomerate.
473.1	558.0	Interbedded Graphitic Argillite and Felsic (??) Flow. Graphitic fault gouge 527.6-529.6 ft. 10-15% quartz-calcite veining 527.6-558.0 ft.
558.0	806.0	Lapilli Tuff. 50-75% quartz-calcite-(tourmaline) veins 696.0-706.0 ft.
806.0		End of Hole

LAC McVITTIE JOINT VENTURE
SUMMARY LOG

Hole Number:	LM94-9
Dates Drilled:	December 10-13, 1994
Drilling Contractor:	Norex Diamond Drilling, Timmins
Township:	McVittie, Larder Lake Mining Division
Claim No.:	767437
Collar Coordinates:	32+00W, 6+00S, Dip -50° at Azimuth 180°
Length:	764 feet
Purpose of Hole:	Test I.P. anomaly (Chargeability High, Resistivity High), Line 32+00W at 9+00S to 11+00S.
Logged By:	P. Harvey
Core Size:	BQ

RESULTS

Geology

The lithologies intersected by this drill hole consisted of a rather homogenous sequence of a heterolithic, weakly fragmental textured "intermediate" lapilli tuff. A 20 foot section of fault gouge, lost core and quartz veining was intersected at 203.0-233.0 feet and is the probably cause of the coincident I.P. chargeability and resistivity highs.

Minimal sampling failed to return any significant gold values.

Sampling

All samples from this hole were sawed and assayed for gold using a Fire Assay-Atomic Absorption finish on a 1AT sub-sample by the Royal Oak Mines Inc. assay laboratory in Schumacher, Ontario. A total of 6 samples were taken for gold analysis and 9 samples were taken for whole rock analysis.

Core/Rejects

All the core from this hole is stored in the Royal Oak's core storage facility located on the old Hollinger minesite. All pulps from the gold samples were kept, but the rejects from these samples have been discarded.

Summary Log - Hole LM94-9

Feet From	Feet To	Description
0.0	118.1	Casing in sand overburden.
118.1	203.0	Heterolithic Fragmental - Lapilli Tuff. Subrounded to subangular mafic to felsic volcanic fragments tightly packed in a chloritic matrix, typically ¼ to 2 inches in size. Leucoxene specks throughout, overprints both fragments and matrix. Minor local zones of shearing and crenulation <12" scattered throughout. 3% quartz veining in unit occuring as <1" wormy veins and tensional veins.
203.0	223.1	Fault Zone. Major fault, only 11 feet of core recovered in 20 feet drilled. Core is blocky, limonite stained lapilli tuff, chlorite schist and irregular, quartz-carbonate vein material with chloritic wall rock fragments.
223.1	233.0	Quartz Veins. Continuation of fault zone and veining as above, but with 100% recovery. The quartz veins are irregular, occur in a chlorite schist, and except for one speck of chalcopyrite, are barren of sulphides. **The fault zone and quartz veining between 203.0 and 233.0 is the probably cause of the I.P. anomaly**.
233.0	764.0	Heterolithic Fragmental - Lapilli Tuff. Generally as at 118.1-203.0. 338.0-616.0 Zones of mild shearing with bands of yellow-green sericite. Felsic dike at 447.0-456.0. 616.0-700.0 Zones of mild shearing with bands of hematite and sericite alteration.
764.0		End of Hole.

APPENDIX III

Field Drill Logs

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

PROJECT : Lac McVittie (1513) Logged By : R. Pressacco
Core size : BQ

PAGE 1

Start : oct 12/94
end : oct 18/94

I

Date : --/--/19--
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DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE claim
LM94-5	25+30N	42+00W	Surface	1230ft 1232				767460 + 767451

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	180	-50°	800	188	-55									
206	183	-51	1000	202	-56									
406	187	-52	1232	192	-54									
600	196	-53												

core Storage : Beaverhouse Coreshack

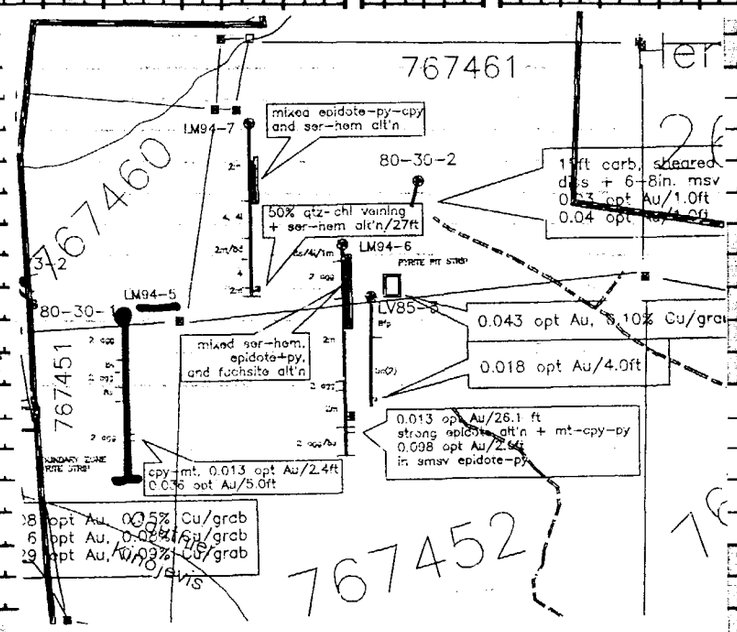
DIST	Id
30	

ROCK DESCRIPTION					
Com	Grs	Text	Co	Alt	Nam
					CAS

STRUCT.			
B/S		J/F	
B	A1	J	A2

MINERALS					
GANGUE					
QTZ	A%		B%		C%

METALLIC					
Py	D%		E%	Au	F%



Spl #	Wdth	T

COMMENTS 1	COMMENTS 2
Overburden. BW casing to 30ft. NW casing reamed to 30ft. All NW+BW casing left in place, hole capped.	
ALTERED MAFIC FLOW (30-83.1ft). Colour variable from medium greento medium red-brown, non-magnetic, hard, moderately calcitic, weakly foliated, fine to medium grained, porphyritic texture. The dominant texture of this interval is a moderately to strongly developed hematite-sericite-calcite alteration. The alteration is strongest in the 39-70.1ft and 77.6-83.1ft intervals. The alteration is characterized by a pervasive hematite alteration which imparts a strong red-pink colouration to the rock. Superimposed on this hematite alteration is a well developed stockworking/fracture set of calcite-sericite and a porphyritic textured section (77.6-83.1ft) of what appears to be sericitized plagioclase. The fractures-controlled calcite-sericite is dominant in the 30-48.4ft section and the 61.3-70.1ft section is mostly porphyritic textured. The host rock between these altered sections consists of a massive to weakly porphyritic fine grained mafic flow. The 30-48.4ft section contains trace talc in the 30-32.1ft section and 3-5 to 5mm-long quartz-calcite veinlets of a second generation from the calcite-sericite fractures. Trace vug pyrite is present in these late stage veinlets.	

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S	A1	J/F	A2	GANGUE Qtz	C%		B%		C%	METALLIC Py	D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
36.0		M	vfg	FOL	CR	SER	2						tr		1				0.1			0.002		DRS200	6.0		pervasive, moderate, bio-carb-ser alt'n	
41.0						HEM		V	40				7						1			0.002		5001	5.0		pervasive hem alt'n, abundant qtz-cal-ser fractures	
46.0						HEM		V	55				5						1			0.002		5002	5.0		mod. pervasive hem alt'n, abundant qtz-cal-ser fractures. 1 bx along QV's	
48.4						HEM		F	30				1						0.1			0.001		5003	2.4		mod-wk. pervasive hem alt'n	
52.2						HEM																					in book. No sample stag	
56.0						SER							1						0.1			0.002		5004	3.8		Patchy hem-ser alt'n in msv matic flow	
61.3						SER							3						0.1			0.001		5006	3.8		trace qtz-calcite veins, base sericite alt'n in msv matic flow	
66.0						HEM							3						0.1			0.001		5007	5.3		wk pervasive hematite alt'n, strong patchy-stronger sericite alt'n, moderate calcite patches	
70.1						HEM							1						0.1			0.001		5008	4.7		strong pervasive hematite alt'n, strong porphyritic texture. (plag, calcite)	
73.7						—							1						0.1			0.002		5009	4.1		moderate hematite alt'n, strong plagioclase porphyritic texture	
77.6						—							1						—			0.001		5010	3.6		massive matic flow, base	basinal qtz veinlets
83.1						HEM																0.001		5014	3.9		massive matic flow, base	basinal qtz veinlets
																						0.001		5015	5.5		moderate-strong pervasive hematite alteration, strong plagioclase porphyritic texture, base specular hematite along fractures	

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123.2
83.1
40.?

DRILL HOLE LM 94-5

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																						MASSIVE TO FRAGMENTAL MAFIC FLOW	
																						(83.1 - 311.0ft)	
																						Colour generally medium green-grey, hard, non-magnetic, strongly calcitic in Ms. 83.1 - 126 ft. section, becoming weakly to non-calcitic below 126 ft. Overall texture is fragmental, with common rounded darker green coloured fragments sitting in a lighter grey-green matrix. This may represent a primary lithological feature or may be a result of some type of stockworking. Fragment sizes range from 5mm to 2-3 cm in size. Sections of massive, very fine grained, plagioclase-porphyritic flows separate sections of fragmental textured material. Quartz-calcite veining is on Ms. order of 3-5 % in overall abundance and occurs mostly as randomly oriented veinlets. The core is quite solid throughout, roughly 105 ft, but becomes broken and blocky below 105 ft. Overall RQD in Ms. 105 - 130 ft. section is estimated at 50%. The change in the presence of matrix calcite content about coincides roughly with the appearance of weak patchy and pervasive tremolite alteration below roughly 126 ft. For Ms. most part, this tremolite occurs as weak pervasive and accessory patches, but are stronger tremolite alt'n is observed. No significant amounts of pyrite is observed.
123.8		2	vfg	MSV	GN	-	2					1					0.01		5013	40.7		Mixed fragmental textured MSV flow. Composite sample
124.9							2										—		5014	0.6		Whole Rock sample
131.3						HEM						1					0.001		5015	6.2		weak patchy + pervasive tremolite alt'n

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE q/k	C%		B%		C%	METALLIC	D%		E%	Fe	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
135.2						HEM	2															0.001		5016	3.9		weak patchy pervasive hematite alt?	
137.7																												
																											Hematite alteration grades to nil below 137.7 ft. A rather well developed fracture-controlled sericite alteration is present in the 135-137 ft section. The fractures are oriented mostly at a low angle to (< 35°) and rarely exceed 5% in overall abundance. Where fracture abundance is greater, the sericite alteration takes on the appearance of pervasive alteration by 176 ft. Quartz-calcite veinlets are commonly associated with these fractures and rarely exceed 1 cm in thickness. The quartz occurs mostly as veinlets, but a short section of shattering (stockwork) is present in the 173-176 ft section. A 1.5 ft wide interval of Quartz veining is present @ 176.0-177.5 ft (20° TCA). Roughly 60% of the vein is composed of black quartz, the remainder of white quartz. Trace Carbonates observed with the white quartz. Wavy-irregular vein contacts. Very weak pervasive hematization is observed 186-191 ft.	
155.0						—	2						1									0.002		5018	15.3		massive matic flow. Composite sample	
161.0						SER							1									0.001		5019	6.0		weak fracture ser-carb	
166.0						SER							1									0.002		5020	5.0		moderate fracture ser-carb	
171.0						SER							3									0.001		5021	5.0		moderate fracture ser-carb	
175.5						SER							5									0.001		5022	4.5		moderate ser-carb patchy q/k veining	

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE gb	C%		B%		C%	METALLIC	D%		E%	fw	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
177.5							QV						95									0.01		5023	2.0		Mixed black & white qtz vein.	
192.6							2						1									0.01		5024	5.1		massive mafic flow.	
																											The core is generally massive porphyritic textured above roughly 206 ft, but gradually becoming more and more fragmental textured below 206 to 266.0 ft. These "fragments" are similar to those described above - darker green, very fine grained fragments sitting in a lighter grey-green white matrix. Gradational contact from massive to fragmental textured. 3-5% disseminated and weakly patchy pyrite is noted in the 222-229 ft section. The pyrite coincides with a very weakly developed sericite-hematite alteration and is generally located in sections containing more chalky looking fragments. The pyrite occurs as very fine to fine grained subhedral to euhedral crystals. Trace qtz veins throughout, moderate pervasive calcite enrichment throughout. Moderate pervasive and patchy hematite alteration noted in the 249-250 ft. with weak pervasive hematite persisting to 266 ft. 2-4% epidote-filled fractures (1-3mm) are oriented at high angles to CA and are present in the 258-266 ft section. Core is blocky in the 240-280 ft section, with overall RQD estimated at 75-85%.
210.9						-	2															0.01		5025	18.3		porphyritic massive flow. Composite sample.	
215.7						ser	2						1						1			0.01		5026	9.8		weak ser alt, trace diss py.	
220.3						ser							1						1			0.01		5027	9.6		fragmental textured mafic, weak ser, trace py.	

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DRILL HOLE LM 94-5
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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE qtz	C%		B%		C%	METALLIC py	D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
224.7						SCR	2						1						3			0.001		SU28	4.9		diss. patchy wisp. pyrite	
229.2						HEM	2						1						5			0.002		SU29	4.5		dusty fragments, patchy + diss pyrite.	
234.0						–	2	V	5				3						1			0.001		SU30	4.8		5mm QV@ low angle TCA. contains 3% combined py-mpy-sphp-carbonate. Sharp, rem walls	
238.7						–	2						1						–			0.001		SU31	4.7		massive, mafic flow, base, brecciated QV's	
242.7						–	2						0.1						–			0.001		SU32	4.0		massive, mafic flow.	
243.2						–	2															—		SU33	0.5		Whole Rock sample.	
246.0						HEM	2						1						–			0.002		SU34	2.8		weak-mod. patchy, hematite alt'n	
251.0						HEM	2															0.002		SU35	5.0		stwy, pervasive+ patchy hematite alt'n	
256.0						HEM	2															0.001		SU36	5.0		weak pervasive hematite alteration.	
261.0						EPI	2															0.001		SU37	5.0		weak stringer/fracture epidote.	
266.0						EPI	2															0.002		SU38	5.0		moderate epidote-filled fractures.	
																											The core takes on a definite fragmental texture in the 266 – 274 ft. section. Here several different fragment compositions are observed to be hosted in a mafic matrix. Frequent compositions include a weathered magnetite, chert, intermediate flow/intrusive and some possible felsic volcanics. Fragment sizes generally do not exceed 1cm in size, and many are in the 1–5mm size range. Many fragments are sub-rounded. This interval is moderately magnetic. Brecciated contacts. Trace qtz-calcite veining throughout. Moderate pervasive calcite throughout.	

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE wks	C%		B%		C%	METALLIC py	D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
311.0				FMAG	RB	SER	2Hy						3						–			0.002		5039	45.0		Composite sample.	
																											HEMATITIC INTERMEDIATE INTRUSIVE (311.0 - 385.2 Ft)	
																											Colour variable from medium grey to reddish-brown, non-magnetic. Very hard, moderately calcitic matrix. Generally fine to very fine grained massive texture, moderate pervasive reddish hematite alteration is present throughout the dike, but some sections are more slightly hematitic than others. Where the alteration is less intense, the host rock can be seen to be dominated by wtz, feldspar phenocrysts and occassional to rare amounts of fine grained mafics phenocrysts, all set in an aphanitic matrix. Conjugate qtz veinlets are common throughout, being roughly 7-10% in overall abundance. One vein set is generally oriented at 45° TCA while the other is closer to 25-30° TCA. These veinlets rarely exceed 1-3mm in thickness. However a strong section of sericite alteration at 322-328.5 ft contains several larger quartz veins. Two 1 inch qtz-ank veins (15° TCA) at 324 ft contain abundant tourmaline (black) and rare chalcopyrite. A single larger qtz-ank vein (7") at 328.0 ft (25° TCA) contains only minor amounts of chloritic stains. Trace pyrite in the wall rock at the vein at 328 ft. Trace epidote-filled fractures are observed at 376-383 ft.	
316.0		1	vfg	MSV	RB	HEM	8S						1						–			0.001		5040	5.0		Massive intermediate dike	
321.3						HEM	8S															0.002		941	5.3		weak pervasive sericite. Trace fracture hematite alteration	

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385.2
328.7
56.5

DRILL HOLE CM94-5

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE Gb	C%		B%		C%	METALLIC	D%		E%		F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
324.9						SER	QS	V	15				10									0.002		SD42	3.6		Two tensional qtz-carb veins @ 45° TCA.	
328.7						SER	QS	V	25				10									0.002		SD43	3.8		Several tensional qtz-carb veins, max 1" @ 328 ft.	
385.2						HEM	QS						7									0.001		SD44	6.5		Pervasive hematite alt^n. Abundant anhedral qtz-calcite veinlets. Composite sample.	
																											HETEROLITHIC MAFIC FRAGMENTAL (385.2 – 520.8 ft.)	
																											Colour generally a medium green-grey, hard, non-calcitic to locally weakly calcitic (core is Bozen-difficult to know for sure), moderately magnetic 385.2 – 460 ft, otherwise non-magnetic to locally weakly magnetic. A heterolithic fragmental texture is quite well developed locally, but otherwise poorly developed (eg 420 ft). The core appears to be more of a matrix flow. Fragment compositions vary widely, and we see to include chert, strongly magnetic dark grey fragments (magnetite?), hematitic felsic intrusives, matrix flows, and intermediate intrusives. Fragment sizes vary from fine to 1-2 cm in size and are typically sub-rounded to sub-angular in shape. No foliation or orientation/fabrics are developed in this unit. Hematite alteration is weakly developed throughout, occurring as envelopes around fractures and as weakly developed stockworks. Epidote occurring as straight-edged veinlets and as weak stockworks, is also present, estimated at 1-3% in overall abundance. Quartz veining is not particularly well developed, occurring mostly as thin veinlets to 3 mm oriented at all angles to CA. A 1 ft section at 433.2 ft contains SD45 qtz-calc-(chl)-(tour)-(ser) veining which appears to cross cut hematite alteration. Intervals containing fine disseminated pyrite veins are at all angles to CA, but veins are

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DRILL HOLE DDH 4-5

DIST	Id	ROCK DESCRIPTION						STRUCT. B/S		STRUCT. J/F		MINERALS: GANGUE						MINERALS: METALLIC						Spl #	Width	T	COMMENTS 1	COMMENTS 2
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2	Gtz	C%		B%		C%	Py	D%		E%	Aw	F%					
																											orientated at 50° TCA. A 1cm calcite-rich	
																											vein/vlet (35° TCA) is noted at 467.0 ft. The	
																											core is very blocky in the 476-526 ft section.	
431.0		M	Fg	FRAG	66	HEM	Zagg						1									0.001		5045	45.8		composite sample.	
436.0						SER	Zagg						Sp						1			0.002		5046	5.0		Gtz veining (sheeted) with ser alt°. Trace diss py	
486.0						HEM	Zagg						1						–			0.002		5047	50.0		Composite sample.	
520.8						EPI	Zagg						1						–			0.001		5048	34.8		composite sample.	
																											LAMPROPHYRE (?) DIKE. (520.8-524.9 ft)	
																											Colour dark grey-brown, hard, non-magnetic.	
																											Massive, very fine to Are. grained porphyritic	
																											texture containing combined matrix and feldspar	
																											phenocrysts in an aphanitic matrix. Trace disst	
																											stringer pyrite.	
																											SYENITE DIKE (524.9 - 574.0 ft)	
																											Colour variable from a light pinkish-brown to	
																											light green, moderately hard, non-magnetic,	
																											weakly to non-calcitic. Massive very fine	
																											grained texture in the red-brown sections, but the	
																											light green sections are typically mafic-porphyritic	
																											containing 5-7% fg. euhedral-subhedral mafic	
																											phenocrysts. Trace late-stage gtz-calcite	
																											veinlets are at all angles to CA, but forms a	
																											crudely conjugate vein system (55° & 15° TCA).	
																											Trace disseminated fine grained pyrite throughout.	
																											Weak hematite-sericite alteration associated with	
																											the conjugate gtz veinlets. A narrow xenolith	
																											of mafic fragmental is noted at 562.1 - 567.0 ft.	

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%	Au	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
																									QUARTZ-TOURMALINE VEINING (542.9 - 554.0 ft).	
																									This sub-unit itself consists of two sub-units. The interval 542.9 - 549.6 ft contains 25% qtz-tourmaline veining with the 549.6 - 554.0 ft section containing 25-30% veining. The main vein consists of a semi-translucent qtz vein which contains 1-3% patchy ankerite, and a good 5-7% tourmaline, and holes (<1%) of a pinkish-brown material. The tourmaline is black, and occurs as massive patches, bands, and as wispy, acicular crystals in the qtz. In several locations, tourmaline bands are observed to be disrupted and truncated by an apparent second qtz-ankerite generation. The vein contacts are extremely irregular and brecciated, determination of core angles is difficult. The tourmaline bands vary from 35° to 15° TCA. The lower veined interval (549.6 - 554.0) contains 5-6 smaller qtz-tourmaline veins, the largest of which is roughly 5-6 inches in size. Vein attributes are extremely variable, from 10 - 70° TCA and the vein walls are both brecciated and wavy in form.
541.0		S. wtg	MSV	RB	Hem	QS						1					1			QVVI		949	20.2		composite sample	
542.9						—	QV					15					—			QVVI		950	1.9		10-15% qtz veining	
546.0						—	QV					25					—			QVVI		951	3.1		qtz-ank-tourmaline vein	
549.6							QV					25								QVVI		952	3.6		qtz-ank-tourmaline vein	
554.0							QV					25								QVVI		953	4.9		15-6 qtz-ank-tourmaline veins	

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DRILL HOLE UM 14-5
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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	Ai	J/F J	A2	MINERALS GANGUE gtz	C%		B%		C%	METALLIC	D%		E%		F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
574.0		M	Vfg	MSV	RB	HEM	QS						1									0.001		5054	20.0		Syenite dike, composite sample.	
																											MAGNETIC MAFIC FRAGMENTAL (574.0 - 591.0 ft).	
																											Colour: medium to dark green-grey, moderately hard, weakly to non-calcitic, weakly to moderately magnetic. The overall texture is a fragmental texture, where subangular and rounded, moderately magnetic clasts to 1-2 cm are hosted in a very fine grained to aphanitic matrix. These fragments may be remnants of magnetite beds or may be some other strongly magnetic lithology (eg. ultramafics). Brecciated upper + lower contacts, up 1-2 cm. Minor patchy + stringer epidote alteration. Rare fractured stringer hematite alt'n. The core is very broken and blocky in the 566 - 636 ft interval with overall RQD estimated at 50-60%.	
591.0		M	Fg	FMAG	GN	EPI	Zogy															0.001		5055	17.0		Composite sample.	
																											MAFIC PORPHYRITIC SYENITE DIKE (591.0 - 634.4 ft)	
																											Colour: medium to dark grey to brownish, very hard, non-magnetic, weakly to non-calcitic. Massive, very fine grained to fine grained porphyritic texture where either fine grained matrix phenocrysts or very fine grained plagioclase (?) phenocrysts are set in an aphanitic matrix. Trace to 1% qtz-calcite-hematite fractures are oriented at all axles to CA, and rarely exceed 1 cm in width. Very blocky as described above. A narrow inclusion of mafic fragmental is observed at 592.0 - 592.8 ft.	

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DRILL HOLE L1194-S

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%	/ft	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
634.4		M	ufg	PORP	GN	Hem	BS													0.001		6056	43.9		Composite Sample	
																									FRAGMENTAL TEXTURED MAFIC FLOW (634.4 – 925.3 ft)	
																									Colour generally dark green, moderately hard, non-magnetic to weakly magnetic, weakly to non-calcitic. A fragmental texture is variably well developed, with some sections displaying abundant fragments, while other sections are mostly massive mafic flow. The fragment compositions are rather heterogeneous, with fragments of magnetic material, hematitic syenite, and mafic flows easily observed throughout the interval. Rare amounts of plagioclase-porphyritic sections are present now and again. 1-3% qtz-calcite veinlets (flow) are oriented at all angles to CA in an incipient crusted or stockworked texture. Weak sericitization accompanied by minor qtz veining and common black material are present at 698.7 – 650.6 ft, 657.5 – 660.0 ft and 660.8 – 662.2 ft. The black material in these zones is very hard, non-magnetic and massive textured. A weak C-S fabric is developed at 650 ft.
																									Core Angle: 0° to CA at 650 ft. Schistosity	
																									Core Angle: 35° to CA at 650 ft. Shearing	
649.8		M	ufg	FRAG	GN	—	2avg					1								0.001		5057	10.4		Composite Sample	
696.0						—	2avg					0								—		5058	1.2		Whole Rock Sample	
651.7						SER	2avg					3								0.001		5059	5.7		qtz veining associated with shearing + black material	

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE c%		B%		C%	METALLIC Py	D%	Mt	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
656.0		M	vfg	FMAG	6M	SER	2ogg					1									0.001		5069	4.3		weak ser alt^{n}	
657.5						SER	2ogg					0.1									0.001		5061	1.5		Bridge sample.	
662.2						SER	2ogg					1									0.001		5062	4.7		mod ser alt^{n} w. assoc. blk material.	
666.0						—	2ogg					1									0.001		5063	3.8		Bracket sample. weak residual qtz-calcite veinlets.	
696.0						—	2ogg					1									0.001		5069	30.0		composite sample.	
746.0						—	2ogg					1									0.001		5065	50.0		composite sample. Broken & blocky core 720 – 730 ft.	
785.3						—	2ogg					1									0.001		5066	49.7		composite sample	
796.0							2ogg					0									—		5067	0.7		blocky Rock Sample.	
866.0							2ogg					1									0.001		5068	70.0		Composite Sample. 1% qtz-calcite veinlets, 1% epidote veinlets. Narrow syenite dike at 849.6 – 850.8 ft. (40° TCA)	
871.0							2ogg					1									0.001		5069	5.0		Trace qtz-ca veinlets, weak epidote fractures, 1-2cm pink-red vein (80° TCA) at 868.4 ft. This pinkish-red material is very hard, appears to be a silicate, has an orthorhombic habit and well developed striations the length of the xtals. Intimately associated with qtz as veins.	
876.0							2ogg					—									0.001		5070	5.0		1-1cm vein of unknown pinkish material at 874.1 ft.	
880.2							2ogg					0.1									0.001		5071	4.2		Trace qtz-chl veinlets, patches. 4-5 veinlets of unknown material, max 5cm in size (85° TCA).	
882.6						SER	2ogg					—						0.1		5	0.013		5072	2.4		minor patchy magnetite, containing/replacing/patchy & diss. fg. chalcopyrite, very weak ser alt^{n}	

Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
5069	4.3		weak ser alt^{n}	
5061	1.5		Bridge sample.	
5062	4.7		mod ser alt^{n} w. assoc. blk material.	
5063	3.8		Bracket sample. weak residual qtz-calcite veinlets.	
5069	30.0		composite sample.	
5065	50.0		composite sample. Broken & blocky core 720 – 730 ft.	
5066	49.7		composite sample	
5067	0.7		blocky Rock Sample.	
5068	70.0		Composite Sample. 1% qtz-calcite veinlets, 1% epidote veinlets. Narrow syenite dike at 849.6 – 850.8 ft. (40° TCA)	
5069	5.0		Trace qtz-ca veinlets, weak epidote fractures, 1-2cm pink-red vein (80° TCA) at 868.4 ft. This pinkish-red material is very hard, appears to be a silicate, has an orthorhombic habit and well developed striations the length of the xtals. Intimately associated with qtz as veins.	
5070	5.0		1-1cm vein of unknown pinkish material at 874.1 ft.	
5071	4.2		Trace qtz-chl veinlets, patches. 4-5 veinlets of unknown material, max 5cm in size (85° TCA).	
5072	2.4		minor patchy magnetite, containing/replacing/patchy & diss. fg. chalcopyrite, very weak ser alt^{n}	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

DRILL HOLE LM94-5

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%		F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
886.0							Zone														0.01	5073	3.9		1- 5mm pinkish unknown carbonate veinlets at 30° TCA.	vein 3-5% epidote-carbonate veinlets to 5mm thick.
891.0							Zone														0.01	5074	5.0		2 veins of pinkish unknown material, each 2cm (65° TCA). 3-5% epidote-carbonate veinlets to 5mm thick.
896.0							Zone					1									0.036	5075	5.0		trace-1% qtz-cc veinlets. 1- 1cm pinkish vein @ 80° TCA.
925.3							Zone					1									0.01	5076	29.3		Composite sample. 1% qtz-cc veinlets, 1% epidote veinlets @ 60° TCA.
																									SERICITIC, QUARTZ VEIN(S) ZONE (925.3-991.0 Colour: variable from light green to tan-buff, moderately hard, non-magnetic, non to strongly calcitic. Massive to very weakly foliated, very fine grained to aphanitic texture. Occassional local sections display weakly developed bedded textures, especially the 925.3-937 ft section which appears to consist of mixed fragments of mafic volcanic and felsic tuffs. Occassional sharper, bedded contacts are visible. The most characteristic feature of this section is the combined sericite alteration and the abundant qtz-carbonate-tourmaline veins. The sericite occurs as weak to moderate pervasive alteration throughout and has gradational upper and lower contacts over 1-2 ft. The quartz veining is roughly 7-10% in overall abundance and occurs mostly as thin spaced veinlets to 1-2cm and as local sections of shattering. One longer section at 955.1-961.0 ft contains 75-80% qtz-carbonate with abundant wall rock fragments

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Fm	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																						Many of the veins are oriented at roughly 90° TCA, however all core angles are observed. Textural relationships show that the qtz veins clearly overprint the sericite alteration. Over-printing the quartz veins are thin chlorite(?)-filled brittle fractures which locally offset and displace some quartz veins (eg 945ft). These chlorite fractures form stockworks and are at oblique angles to CA, but many are oriented at 65° TCA. Many of the veins contain an assemblage of anhydrite-calcite as the carbonate species. These carbonates generally occur as patches throughout the veins. Many of the veins are straight-edged. The larger vein at 955.1-961.0 ft contains abundant blocks tourmaline (est. 10-15%) which occurs mostly as patches and veins of massive black material within the quartz. Minor amounts of tourmaline-rich fractures (5mm) persist from 961.0-962.0 ft.
																						Pyrite abundance overall is quite variable, being less than 1% overall. Much of the pyrite occurs as fine to very fine grained, disseminated, anhedral pyrite usually associated with the quartz veins, or in sections of silicification/quartz brecciation. Rare stringers of pyrite are present at 977ft. Pyrite abundance can reach 1-2% locally. Minor ufg talc observed with qtz-tourmaline veining at 978.2ft.
930.0		m	ufg	MSV	Y	SER	2					0.1					0.001			507.7	4.7		weak incipient ser alt?
934.3				MED	Y	SER	4E	B	30			1			1		0.001			978	4.3		weakly bedded felsic tuff? 1% diss ufg py.
937.6				MED	Y	SER	1E	B	55			1			0.1		0.001			507.9	3.3		felsic-intermediate tuff? Trace 1% diss py.

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DRILL HOLE CM94-5

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S	Ai	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
941.3				FRAG	GG	SER	2gg	V	30			1			-		0.001		SD80	3.7		fragmental: massive, textured	matic. 2-1cm gtz-cb veinlets
943.6				BRX	YG	SER	2?					20			0.1		0.001		SD81	2.3		Abundant gtz brx in ser	silicified matic. Trace py
948.3				VEIN	YG	SER	2	V	30			5			0.1		0.001		SD82	4.7		10-15cm gtz-carb veinlets (15-30° TCA). Rare py.	
952.8				MSV	YG	SER	2					1			-		0.003		SD83	4.5		minor gtz veinlets to 5mm	Nil py
955.1				MSV	YG	SER	2					1			-		0.003		SD84	2.3		Massive, sericitized matic.	
957.5				VEIN	wh	SER	VEIN					80			1		0.001		SD85	2.4		80% gtz-carb-tour veinage. Trace-1% py, 2% tourmaline.	
961.0				VEIN	wh	SER	VEIN	V	10?			75			0.1		0.001		SD86	2.5		Abundant tourmaline in gtz-carb vein. Trace py.	
962.7				MSV	YG	SER	2					1			-		0.001		SD87	1.7		3-5% tourmaline veinlets (5mm) in ser matic.	
963.9				VEIN	wh	SER	VEIN	V	55			85			3		0.001		SD88	1.2		laminated gtz-tour-carb vein.	diss. wk pyrite.
967.4				MSV	YG	SER	2					3			-		0.001		SD89	3.5		Minor gtz stockwork (5mm) in ser matic.	
972.1				"		SER	2	V				1			-		0.001		SD90	4.8		.5-6. 1cm (1cm) gtz-rich veinlets, weak ser.	
976.7				"		SER	2					1			-		0.001		SD91	4.6		minor gtz stockworking/veining with weak ser.	
981.0				FOL		SER	2					20			1		0.001		SD92	3.3		Section of gtz-tour veining. 1-3% diss. wk pyrite.	
																						MAFIC FRAGMENTAL (981.0 – 1121.3 Ft.)	
																						Colour: medium to dark green, non-magnetic,	
																						very hard, non-calcitic, well developed	
																						heterolithic fragmental texture. Fragment	
																						sizes range up to 3-5cm, and compositions	
																						vary between mafic flows, felsic flows, intermediate	
																						flows, intermediate intrusive and vein clast	
																						fragments. Matic fragments are the dominant	
																						composition. Rare gtz-tourline veinlets.	

ROYAL OAK MINES INC
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DRILL HOLE CM19-5

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	cpy	E%	Fm	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
																							Rare epidote-filled fractures. At 2cm pinkish vein (80° TCA) is veined at 1012.9 ft.	
1037.1		M	CG	FNAG	GN	—	Zcgg					0.1			—			0.001		5093	56.1		composite sample.	
1038.1							Zcgg											~~0.001~~		5094	1.0		whole rock sample.	
1056.0							Zcgg											0.001		5095	17.9		composite sample. 1% epidote fractures (80° TCA)	
1061.0							Zcgg											0.001		5096	5.0		massive fragmental.	
1066.0							Zcgg					0.1						0.001		5097	5.0		5mm pinkish unknown vein (10° TCA) at 1062 ft.	
1067.7							Zcgg					0.1						0.001		5098	1.7		massive fragmental. trace qtz-cc veinlets.	
1071.0						SER	Zcgg					1					0.1	0.001		5099	3.3		Trace diss cpy (fg), weak incipient alteration.	
1076.0						—	Zcgg					1			0.1		—	0.002		5100	5.0		1-5mm pinkish unknown vein (35° TCA). Rare diss. vfg py. Minor epidote fractures to 5mm.	
1081.0						—	Zcgg					1						0.006		5101	5.0		Trace qtz-cc veinlets (1cm).	
1086.0						—	Zcgg					1						0.001		5102	5.0		composite sample. Trace qtz veinlets @ low angle TCA.	
1101.0							Zcgg					3			—			0.001		5103	5.0		qtz-epidote-(chlorite) veins to 2-3cm (80° TCA).	
1121.3							Zcgg					0.1						0.001		5104	20.3		composite sample. Trace dark qtz veinlets.	
																							MAFIC PORPHYRITIC INTERMEDIATE DIKE (1121.3 - 1193.8 ft).	
																							Colour medium grey, moderately hard, non-magnetic, strongly calcitic. Massive to porphyritic, very fine grained texture containing 1-3% very fine to fine grained rounded native stevensite in an aphanitic matrix. 1-3% qtz-cc veinlets rarely exceed 5mm in	

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DRILL HOLE LM94-5

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC Py	D%		E%	Apy	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																										Thickness and ore at all dissemmated fine grained subhedral pyrite. Rare to minor epidote is associated with some of the qtz-cc veinlets. Upper contact is either diffuse, but can be seen to be at 60° TCA. Lower contact is indistinct and subjectively chosen as beginning of recognizable fragmental texture of the lower unit.	angles to CA: Trace - 1%.
																										1141.0 - 1143.8 ft: section containing 30-40% qtz-calcite-tourmaline-(pyrite) veins. The veins are up to 10cm in width and generally form a stockworked texture. 3-10cm veins are present with core angles ranging from 30-80° TCA. Sharp, planar vein walls. Quartz-calcite-tourmaline are all roughly subequal in abundance, with the tourmaline occurring mostly as massive black patches, but some acicular needles can be seen. Trace amounts of qtz-anhedral pyrite is disseminated throughout the veins. Minor amounts of a reddish material observed as well.	
1126.0		M	ufg	POR	GY	CAL	Bd					1						0.1		0.002			5105	4.7		massive dike, 1% qtz-cc stockwork, bore dy	
1131.0							Bd					1						0.1		0.001			5106	5.0		massive dike, 1% qtz-cc stockwork, bore dy	
1136.0							Bd					3						—		0.001			5107	5.0		massive dike, 3% qtz-cc stockwork, bore dy	
1141.0							Bd					3						—		0.001			5108	5.0		massive dike, qtz-epidote stockwork	
1143.8				BRX		VEIN	Bd					40						0.1		0.002			5109	2.8		qtz-cc-tourmaline-(py) veining	
																										MAFIC FRAGMENTAL (1143.8 - 1232.0 ft). Color variable from medium-dark green-grey to apple-green, very hard, non-magnetic, non-calcitic, well developed cores	

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DRILL HOLE CM 94-5

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%		F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																									Fragmental texture throughout. The fragments are quite heterolithic in their compositions, and are generally less than 1-2cm in size. Epidote is the main form of alteration in this unit, occurring as both weak pervasive and patchy. Minor amounts of fracture-controlled epidote alteration is also observed on occassion. Rare qtz-cc veinlets. Rare thin hairline hematite veinlets.	
1146.0		M	Mg	FRAG	LV	EPI	Zmgg					1									0.002	5110	2.2		matrix fragmental, weak epidote alt'n	
1151.0						EPI	Zmg														0.001	5111	5.0		matrix fragmental, weak epidote alt'n	
1156.0						EPI	Zmgg														0.002	5112	5.0		matrix fragmental, weak epidote alt'n	
1206.0						EPI	Zmg														0.001	5113	50.0		composite sample, weak-mod. epidote alt'n.	
1232.0						EPI	Zmgg					1					0.1				0.001	5114	26.0		composite sample, mod-strg. epidote alt'n, mod pervasive calcite + lt. qtz-cc stringers, weak patchy ser.	
1232.0							EOH																		END OF HOLE	
486-491.0		M	Mg	FRAG	GG	HEM	Zmgg					0.1					0.1				0.001	5115	5.0		Supplemental Samples: 1-3% epidote veinlets at high angle to CA, trace-rare qtz-py, trace qtz-ser veinlets.	
496.0			Cg	FRAG		HEM	Zmgg					0.1									0.001	5116	5.0		coarse fragmental, patchy hematite, weak epidote.	
501.0						HEM	Zmg					0.1									0.001	5117	5.0		coarse fragmental, mixed hematite-epidote alt'n, rare qtz-cc veinlets.	
506.0						EPI	Zmgg					1					0.1				0.001	5118	5.0		weak epidote alt'n, trace-1% qtz-cc veinlets.	

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	Ai	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Fw	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
515.0		M	Cg	FMG	GG	Hem	Zagg					1			1		0.001		5119	5.0		weak, keratite, alt?, 1%	diss. ufg. anhedral pyrite.
516.0						Hem	Zagg					1			3		0.001		5120	5.0		mixed weak epidote-keratite, alt? 1-3% patchy + diss. ufg. anhedral pyrite.	
520.8						Hem	Zagg					0.1			1		0.002		5121	4.8		1% diss. ufg. anhedral pyrite, trace gtz-cc veinlets, weak kera alt?	
524.9		M	ufg	MSV	DKN	—	FL					—			—		0.005		5122	4.1		3-5% fine grained diss. pyrite, diffuse contacts.	
531.0		M	ufg	MSV	RB	Hem	BS					1			0.1		0.001		5123	6.1		massive ufg syenite, 1% gtz-cc veinlets, trace rare diss. pyrite.	
536.0						Hem	BS					0.1			0.1		0.001		5124	5.0		rare gtz-cc-ker veinlets, rare diss. py.	
541.0						Hem	BS	V	Ø			1			1		0.001		5125	5.0		trace-patchy CHALCOPYRITE in gtz-cc-ker veinlet, 1% gtz-cc-ker veining, 1% diss. fine grained pyrite.	
782.5							VEIN												5126	grab		XRD Sample - AXINITE ??	

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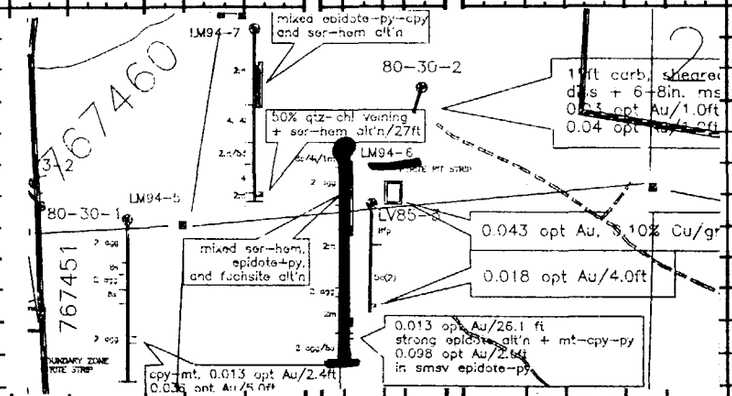
PROJECT: Lac McVittie — Core size: BQ — Logged By: R. Bressico — Start Oct 18, 1994 — PAGE 1 — End: Oct 24, 1994 — Date: --/--/19__ — Page 1 of 24

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	~~LEASE~~ CLAIM
LM94-06	28+50N	32+00W	Surface	1416 ft				767461 + 767452

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0 ft	180	-45	800	202	-45									
206	185°	-46°	1000	201	-46									
400	190°	-46°	1200	—	—									
600	193°	-47°	1400	209	-46°									

Core Storage: Beaverhouse Coreshack

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S	A1	J/F	A2	MINERALS GANGUE QTZ	A%		B%		C%	METALLIC M	D%	CP/	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
30.							CAS																				BW casing to 30 ft. NW casing to 23 ft, with the 23-30 ft section being cored by BW casing. This core was recovered and consists of what appears to be a mixture of qtz stockworks to talcose fuchsitic material and coarse sericitic fragmental material (Gauthier Group?) The qtz-fuchsite is present to approx 25 ft, with the sericitic material being present below 25 ft to 31.6 ft. The sericitic material contains trace-1% diss ufg arsenical pyrite and 1-3% qtz-carb veinlets oriented in a conjugate set at roughly 45° TCA. The fuchsitic material contains 10-15% qtz stockworking, rare ufg pyrite and trace-1% CHALCOPYRITE in a qtz veinlets. The contact at 25 ft is at a high angle TCA and is wavy in form.
0-23.							CAS																					
25.0		M	ufg	BRX	YW	TALC	QTZ						15						0.1		1	trace		5127	2.0		Strong qtz fuchsite talc-chlorite altered section.	
30.0		M	ufg	FRAG	Y	SER	AL						3						1		-	trace		5128	5.0		weak sericitic fragments in sericitic matrix, 1% qtz bx.	
																											SERICITIC LAPILLI TUFF (GAUTHIER?) (25-52.6 ft). Colour medium yellow-green, moderately soft, non-magnetic, non-calcitic, massive to weakly porphyritic and fragmental, very fine to fine grained texture. Rare rounded fragments to 1-2 cm of variable compositions are hosted by the fine grained sericitic matrix.



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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	/m	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																						This matrix is weakly porphyritic, containing 1-3% fine grained mafic phenocrysts disseminated throughout. Quartz-(carbonate) veining is present at all angles to CA and occurs as thin (5mm) veinlets and as short sections (1-2cm) of qtz-breccia cement to fragments of host rock. Overall qtz abundance estimated at 1-3% max. Pyrite is present occurring as very fine grained disseminated weakly developed patches of anhedral pyrite. Weak incipient hematite alteration, especially within 4-5 ft of lower contact.
																						Core Angle: 75° to CA at 52.6. Intrusive Contact.	
36.0		m	vfg	FRAG	Y	HEM	41					1			0.1		0.001		5129	6.0		weakly developed qtz veining in weakly fragmental matrix.	
41.0						HEM	41					3			0.1		0.001		5130	5.0		qtz-ank veining throughout matrix, rare diss vfg py.	
46.0						HEM	41					3			1		0.001		5131	5.0		Patchy py spatially related to qtz veining/vein.	
47.5						HEM	41					5			-		0.001		5132	1.5		qtz-ank veining	
48.1						-	41					1			-		-		5133	0.6		Whole Rock Sample	
52.6						HEM	41					1			1		0.001		5134	4.5		weak qtz veining in mod hematized host.	
																						HEMATITIC SYENITE DIKE (52.6-68.71) Colour red-brown to purplish, moderately soft, non-magnetic, non-calcitic. Massive very fine grained texture. 1-3% thin qtz veinlets to 5mm, cross-cut the core at all angles to CA. Rare diss vfg pyrite. Lower contact is indistinct and gradational over 5-10cm.	
56.0		m	vfg	MGW	PB	HEM	BS					1			0.1		0.001		5135	3.4		qtz veinlets at all angles to CA	

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DRILL HOLE LM94-6

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
61.0		M	vfg	Mgr	MB	Hem	QS					1			0.1		0.001		5136	5.0		Trace-1% disst stringer py	
66.0							QS					1			0.1		0.001		5137	5.0		Thin qtz veinlets throughout	
68.7							QS					1			0.1		0.001		5138	2.7		thin qtz veinlets	
																						ULTRAMAFIC (TALC-SERPENTINE) (68.7-96.8 ft):	
																						Colour variable from black to apple green depending on alteration, quite soft, non-magnetic, non-calcitic. Generally a massive to very weakly foliated, spotty-patchy texture, with light green colored streaks, bands, and spots all set in a massive optamitic black groundmass. Trace to 1% narrow qtz veinlets throughout, except for the altered zone described below. Syenite dikes are located at 75.5-78.0 ft (70% qtz veining/brx) and 82.0-93.6 ft (1-3% qtz veining) Core Angle: 50° to CA at 86. ft. Foliation Core Angle: 65° to CA at 96.8 ft. Lower contact.
																						ZONE OF QUARTZ-TOURMALINE VEINING AND FUCHSITE ALTERATION (68.7-75.5 ft)	
																						The section from 68.7-72.4 consists of a very well developed fragmental texture. Fragments are on the order of 1-5mm in size and are heterolithic in composition. The host unit may be some type of volcanic conglomerate. The alteration zone proper begins below 68.7 ft and consists basically of a strongly developed qtz stockwork and vein system overprinting a fuchsite-sericite alteration assemblage. Fuchsite is dominant only on the 71.4-75.5 ft section. Brecciated and ribbon-textured qtz-tourmaline veining is present on the 72.4-74.0 ft section. Overall qtz abundance is estimated at a grade 20-30%. Many of the

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DRILL HOLE CM 79-6

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	/m	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
																0.002	7.3						
71.4		S	Mg	FNAG	MGV	SER	Sc					0.1			—			0.002	5139	3.2		fine micro-veinlets to	
72.4		M	Vfg	BRX	GN	SER	Im					15			0.1			0.002	5140	1.0		10 cm qtz vein. Calcite	base specimen Pf
75.5		M	Vfg	BRX	GN	FU	IFu					25			0.1			0.003	5141	3.1		strong fracture alt'n with	abundant qtz stockworking
78.0		M	Vfg	BRX	RB	HEM	QS					10			—			0.001	5142	2.5		strong qtz brx (stockworking)	in syenite.
83.4		M	Vfg	MOT	BK	—	Im					3			—			0.001	5143	5.4		wk foliated ultramafic	
86.0							Im					0.1			—			0.001	5144	2.6		wk foliated ultramafic	
86.9							Im					—			—			—	5145	0.9		Whole Rock sample	
89.0							Im					—			—			0.001	5146	2.1		wk foliated ultramafic	
93.6		M	Vfg	MSV	RB	HEM	QS					3			1			0.001	5147	4.6		Syenite dike, 1% disseminated	Qtz veinlets.
96.8		M	Vfg	MOT	BK	—	Im					1			—			0.004	5148	3.2		wk foliated ultramafic	
																						MAFIC FRAGMENTAL (96.8 - 117.5 ft).	
																						Colour medium green, non-magnetic, hard,	
																						moderately to strongly calcitic, well developed	
																						fragmental texture, containing several fragment	
																						compositions, but being dominated by	
																						fragments of mafic material. Qtz-calcite	
																						veining is generally base to 1% in abundance	
																						except for the 104.4 - 106.2 ft section	
																						described below:	

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DRILL HOLE CM 94-6

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	Al	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%		F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																									Pyrite is present throughout, occurring as	
																									disseminations. The 119.4-119.9 ft	
																									section contains SEMI-MASSIVE, PATCHY PYRITE	
																									AND MAGNETITE.	
																									109.4-109.9 ft: 50% qtz-calcite veining is	
																									oriented at roughly 15°. The section contains minor	
																									amounts of acicular, dkg hornblende, and 1-3%	
																									COARSE, PATCHY, CHALCO PYRITE.	
																									Narrow syenite dike (15° TA) located at 96.8-98.3 ft.	
98.3		M	vfg	MSV	RB	ALT	QS					—					—				0.001			5149	9.5		Syenite dike	
104.0		M	mg	FRAG	GN	CAL	Zagg					1					6				0.001			5152	5.7		mafic fragmental	
106.2				V.VEIN		VEIN	Zagg					50					0.1		3		0.001			5151	2.8		coarse patchy cpy in 5% qtz-cc veining	
109.8		M	vfg	FRAG		CAL	Zagg					1					1				0.001			5158	3.0		fine qtz-cc veinlets	
113.9						CAL	Zagg					3					3				0.001			5153	4.9		fine diss py in mafic fragmental	
116.0							Zagg					—					25				0.010			5154	2.6		5-10% py+mt in mafic fragmental. Py is syngenetic	
117.5							Zagg					1					0.1				0.001			5155	1.5		Trace qtz-cc veining	
																									SERICITIZED MAFIC FRAGMENTAL (?)	
																									(117.5-224.0 ft.).	
																									Colour variable, from light green to yellow/buff,	
																									hard, variably calcitic, extremely blocky.	
																									A gradational alteration front can be observed	
																									at 117.5 ft, suggesting that this unit is	
																									an alteration rather than a discrete	
																									lithologic unit. The textures are somewhat	
																									variable, but for the most part are	

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%	/m	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
																									massive, very fine grained. Local sections can become weakly foliated. Pyrite abundance is generally absent in the	Pyrite abundance is
																									sections, but can reach	1-3 (5)% in more
																									strongly altered sections. Quartz veining is	
																									present, but overall does not amount to more than	
																									1%. The section at 117.5 - 137 ft. is quite	
																									strongly sericitized, quite calcitic and locally	
																									contains 1-3% disseminated pyrite. Weak-	
																									moderate, brecciation is also present in this	
																									section. A weak but distinctly developed	
																									system of chloritic patches and stringers is	
																									developed in this sericitic section, and the pyrite	
																									shows almost a 1:1 correlation to these chloritic	
																									areas. Below roughly 137 ft. the intensity of	
																									sericite alteration decreases, such that the	
																									probable original textures can be seen. Overall	
																									RQD is estimated at 50% or less for the 117.5 -	
																									176 ft. section.	
120.7		M	Vfg	MSv	Y	SER	Zopg					0:1					0:1			0.002		5156	3.2		massive, sericite alt'n, incipient chl. alt'n	
126.0		M				SER	Zopg					0:1					3			0.001		5157	5.3		mod ser. alt'n, wk chl. alt'n, 5-7% chl. patches &	
																									stringers, diss. & stringer py with chl.	
131.0		M				SER	Zopg					0:1					1			0.001		5158	5.0		mod. ser. alt'n, weak chl. alt'n, diss. & stringer py	
136.0		B				SER	Zopg	V	40			3					0:1			0.002		5159	5.0		10 cm ribboned gtz-tourmaline vein at 131.5 ft.	
																									1-3% thin (1-2mm) tourmaline veinlets at all	
																									angles. 7/4. Trace diss. py.	
141.0		B				SER	Zopg					1					0:1			0.001		5160	5.0		ser. alt'n decreasing in intensity, trace gtz-tourm veinlets	
146.0		B				SER	Zopg					1					0.1			0.002		5161	5.0		weak-mod. ser. alt'n	

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DRILL HOLE CM99-6

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%		F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
155.0		B	vfg	FNAG	VFM	SER	Zagg					0.1					0.1			0.001		5162	5.0		weak patchy ser alt=, very blebby	
155.1		B				SER	Zagg					0.1					0.1			0.001		5163	4.1		weak patchy ser alt=, blebby	
156.0		B				SER	Zagg					—					—			—		5164	0.9		Whole Rock Sample.	
161.0		B				SER	Zagg					1					—			0.004		5165	5.0		weak patchy ser alt=	
166.0		B				SER	Zagg					1					—			0.003		5166	5.0		weak ser alt=	
171.0		B				SER	Zagg	V	15			3					—		0.1	0.001		5167	5.0		trace vfg cpy in 2cm qtz vn at 166.2 ft, weak-mod. ser alt=	
176.0		B				SER	Zagg					3					—			0.002		5168	5.0		weak ser alt=	
181.1		B				SER	Zagg					1					—			0.002		5169	5.1		pervasive ser alt=	
																				0.002					181.0 - 198.4 ft: section of strong, massive, vfg sericite alteration with weak pervasive hematite alt=. Moderately - strongly calcitic. Trace - 1% qtz-cc veinlets at all angles TCA. 1-3% patchy + stringer chl. alt= contains trace - 1% vfg. diss. anhedral pyrite. Gradational lower contact into "fresh" matrix. Equigranular.	
																									200.2 - 224.0 ft: mostly a massive, vfg sericite-calcite altered section. 3-5% chlorite-filled fractures form a stockwork/brecciated texture at all angles TCA. Very weak pervasive hematite alt=. Where chlorite fractures exceed 3-5mm in width, the central portions become filled with quartz-cc veinlets, but together they rarely exceed 1cm in width. Lower contact of the alteration zone is gradational over 20-30 cm and is chosen as the last appearance of fracture-controlled sericite alteration. Pyrite abundance overall is 1-3%, but locally can achieve 7-10% (eg 208 ft). The pyrite occurs both with chlorite stringers.	

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																					and isolated within it sericite alteration. In both cases the pyrite is as fg-vfg disseminations. A 10cm section of smky tourmaline is observed at 209.5ft.	
181.9		B	vfg	msv	PR	SER	2mpy					0.1			1		0.001	5170	—		fine ser alt^{n}. ERROR IN DEPTH TAGS - add 5ft to all depths below 181.1 ft.	
186.0		M				SER	2mpy					0.1			1		0.002	5171	4.1		diss. vfg py in ser-hem alt^{n}	
191.0		M				HEM	2mpy					0.1			1		0.001	5172	5.0		diss. vfg py in patchy, chl + mixed ser-hem alt^{n}.	
196.0						SER	2mpy					1			2		0.002	5173	5.0		diss vfg py in msv ser-hem alt^{n}	
198.4						HEM	2mpy					0.1			0.1		0.008	5174	2.4		patchy chl alt^{n}, base stronger matrix.	
200.2						—	2mpy					0.1			—		0.002	5175	1.8		"fresh" mafic fragmental	
201.6						SER	2mpy					1			1		0.002	5176	1.4		Strong chl-py stringers in msv ser alt^{n}	
206.0						SER	2mpy	V	30			3			0.1		0.002	5177	4.4		narrow, ribbon qtz-tourm veinlets to 5mm, locally msv tourmaline; base diss py	
211.0						SER	2mpy	V	30			3			3		0.007	5178	5.0		fg patchy diss py, qtz-chl-cc veinlets to 5mm.	
216.0						SER	2mpy					1			0.1		0.001	5179	5.0		3-5% fine network of thin (1mm) chl stringers.	
221.6						SER	2mpy	V	40			1			0.1		0.005	5180	5.6		msv ser alt^{n}, occassional ribboned qtz-carb veinlets to 2cm.	
229.0						SER	2mpy					1			—		0.012	5181	2.4		weak ser alt^{n} along fractures.	

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%	Fw	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
																									MAFIC FRAGMENTAL (274.0 - 312.3 ft.). Colour medium green-grey, hard, non-magnetic, moderately calcitic; massive to variably well developed fragmental texture. Fragment composition is dominated by dark green mafic material. Trace - 1% thin qtz-cc veinlets, with occassional ribboned qtz-cc-tourmaline veins which range from 5mm - 10cm in width. Rare disseminated euhedral pyrite. Rare felsitic fragments; mild sericite-(epidote) alteration in Mafic. 235 - 259 ft. section.	
																				0.004	54.5					
250.5		B.	Mg	FRAG	tW	—	Zagg					1					0.1			0.004		5182	26.5		Composite sample. Bladix core (75% recd.).	
259.5		B.				—	Zagg	Y	55			1					—			0.01		5183	4.0		2-3 5mm qtz-cc veinlets.	
259.9		M				SCR	Zagg	✓	35			5					1			0.02		5184	5.4		Ribboned qtz-cc-tourmaline veins by 10cm, weak-epidote alt^{n}. 1% diss. vtg. pyrite.	
266.0						—	Zagg					1					—			0.01		5185	6.1		trace - 1% thin qtz-cc veinlets.	
271.0						—	Zagg					1					1.0			0.01		5186	5.0		1% diss. vtg. euhedral pyrite.	
272.0						—	Zagg					—					—			—		5187	1.0		Whole Rock Sample	
296.0		B.				—	Zagg					3					0.1			0.03		5188	24.0		thin qtz-cc veinlets at all angles TCA. Composite sample.	
301.0		M					Zagg					1					0.1			0.01		5189	5.0		2-5mm qtz-cc veinlets, trace diss py.	
306.0						SCR	Zagg					5					1			0.02		5190	5.0		mixed ribboned + msv veins, v.s. ser alt^{n} along some vein walls, diss. tr vtg euhedral pyrite.	
312.3						—	Zagg					1					1			0.01		5191	6.3		diss. vtg. pyrite, minor qtz-cc veinlets.	

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DRILL HOLE CM94-6

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS												Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
		Com	Grs	Text	Co	Alt	Nam	B/S B	B/S Ai	J	J A2	GANGUE C%		B%		C%		METALLIC D%		E%	Au	F%						
316.0		M	vfg	Brx	YW	SER	Zagg					0.1						3			0.001			5192	3.7		ALTERATION ZONE (312.3-352.3 ft) Colour variable from dark green to light khaki green to pink to buff, depending on alteration, non-magnetic, non-calcitic, variable hardness depending on alteration, very fine grained, massive to stockworked texture. The stockworked texture is provided by thin (1-3mm) fractures and veinlets filled by a waxy black chlorite. These chlorite fractures vary in abundance up to 20%, and are localized mostly in sericitic sections of the alteration zone. The strongest part of the sericitic alteration is from roughly 320-341 ft, with a moderate pervasive hematite alteration being located at 341-348 ft. These alterations are flanked by a gradual decrease to fresh rock. Pyrite is frequent at the upper and lower contacts. Pyrite & quartz common in abundance, being 1-3% in overall abundance but local sections can contain 5% pyrite. The pyrite occurs both with chlorite stringers and with more massive alteration (both settings), and is always as vfg anhedral disseminations. Quartz veining is roughly 1-3% in abundance, and occurs both as small discrete veins to 1-7cm in width and as fragments stretched out in the alteration. These veins contain variable amounts of calcite-anhydrite-tourmaline-chlorite and are ribboned in rare occasions. Core Angle is 50° to CA at 328 ft. Foliation. Core Angle is 70° to CA at 312.3 ft. Alteration Contact	vfg diss anhedral Pyrite.

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DRILL HOLE cm 24-6

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	Ai	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	/m	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
321.0		on	vfg	MSV	LW	SER	ALT	V	40			3			1		0.001		5193	5.0		10 cm. qtz-cc + trace sulf veins, ribboned, in more pervasive ser. alt'n	
326.0						SER	ALT					1			3		0.002		5194	5.0		mixed ser-chl alt'n, heavy chl stkwk, rare qtz-carb veinlets, diss vfg py.	
331.0						SER	ALT					3			1		0.001		5195	5.0		mixed ser-chl alt'n accentuated by strong chlorite stockworking, 4-5mm qtz-carb veinlets, x-cut all.	
336.0						SER	ALT					1			1		0.001		5196	5.0		mixed ser-chl alt'n accentuated by strong chlorite stockworking, occassional knots of qtz-carb and qtz-carb veins.	
341.0						SER	ALT					5			3		0.002		5197	5.0		mixed ser-chl alt'n, strong patches of qtz-carb-tour; weak chl stringers.	
346.0						HEM	ALT					0.1			1		0.004		5198	5.0		moderate pervasive hem-lite alteration, rare qtz-cc veinlets, pervasive calcite, diss vfg py.	
352.3						HEM	ALT	V	40			3			3		0.003		5199	6.3		pervasive hem alt'n, several ribboned qtz-carb-tour veinlets to 2cm, diss vfg py.	
																						MAFIC FRAGMENTAL (352.3 - 378.9 ft). Color: medium green-grey, hard, non-magnetic, moderately to strongly calcitic. Massive, fragmental texture containing mostly fragments of mafic composition: 1-3% qtz-cc veinlets. Blocky core throughout.	
356.0		B.	fg.	FRAG	GN	—	Zagg					1.			3		0.003		5200	3.7		diss vfg subedral pyrite in mafic fragmental	
361.0		B.					Zagg					1			1		0.003		5201	5.0		diss vfg py in mafic fragmental	
366.0		B.					Zagg					1			0.1		0.005		5202	5.0		qtz-cc veinlets in mafic fragmental.	

DIST	Id	Com	Grs	Text	Co	Alt	Nam	B/S B	A1	J/F J	A2	GANGUE	C%		B%		C%	METALLIC	D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
371.0		1	vfg	FRAG	GN	—	2agg	U	30				5						0.1		↓	0.005		5203	5.0		2cm of ribboned qtz-	cc-tour vein.
376.0						SER	2agg						3						—		↓	0.003		5204	5.0		thin qtz-cc veinlets at all	angles TCA, minor
																											fracture controlled ser alt=	
378.4						SER	2agg						0.1						—		↓	0.005		5205	2.4		weak pervasive ser alt=	
																				0.004/60.0								

MASSIVE MAFIC FLOW (378.4 - 660.9 ft).
Colour medium to light grey-green, hard, non-magnetic, moderately calcitic 378.4 - 436 ft, becoming non-calcitic below roughly 436 ft. More or less massive, very fine grained texture with 1-3% vf diss. leucoxene usually quite easily visible. Overall, qtz veining is trace-1% in abundance, but the 416 - 436 ft section contains 3-5% qtz-cc veinlets to a maximum of 5mm in width. The 378.4 - 418 ft section is weakly to moderately sericitized mostly by fracture-controlled sericitization, but where fractures coalesce, or where a number of fractures are closely spaced, the alteration seems as pervasive sericitization. 1-3% diss. fine grained anhedral pyrite is present with this sericitized section. 3-5% thin, hairline chlorite-filled stockworks are also present in this 378.4-418 ft interval. Below roughly 436 ft, epidote becomes quite common, occurring as diss. fine grained grains, thin fractures, and larger patches to 3-4cm in size. The appearance of epidote at 436 ft is roughly co-incident with the loss of calcite in the groundmass.

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
381.0		M	Ufg	MSV	GG	SER	Zm					1			—		0.004		5206	2.6		weak patchy ser, 1-3%	ufg / leucoxene
386.0					YG	SER	Zm	V	25			1			0.1		0.003		5207	5.0		strong ser with 5-7% fine diss fg pyrite, laminated dk grey qv to 1cm	chlorite fractures; Trace
391.0					YG	SER	Zm					0.1			0.1		0.003		5208	5.0		strong fractured ser, 1-3% chl stringers	
396.0					YG	SER	Zm					1			1		0.004		5209	5.0		strong ser, 1% diss fg anhedral py, mafic-porphyritic dike 393.5 - 394.8 ft.	
401.0					YG	SER	Zm					3			1		0.005		5210	5.0		strong ser patches, knots, veins of qtz-carb, diss fine grained anhedral pyrite	
406.0					YG	SER	Zm					3			3		0.002		5211	5.0		strong ser with knots-patches of qtz-carb, diss + patchy fg anhedral py	
411.0					GG	SER	Zm					1			1		0.001		5212	5.0		weak-mod ser, trace py, 1% qtz-carb veinlets	
416.0					YG	SER	Zm	V	60			0.1			1		0.004		5213	5.0		weak pervasive ser, diss + patchy fg anhedral py	
421.0					YG	SER	Zm					3			0.1		0.002		5214	5.0		weak patchy ser, hint of new alt?	
426.0		B			GG	CAL	Zm	V	60			3			0.1		0.001		5215	5.0		5cm qtz vein @ 425.5 ft envelope	contains sericite alt?
431.0		B			GG	CAL	Zm	V	30			3			—		0.002		5216	5.0		common qtz-carb veinlets to 1cm, Bleaky	
436.0		B			GG	CAL	Zm					1			—		0.004		5217	5.0		qtz-carb veinlets at all angles, Tot. Bleaky	
441.0		B				EPI	Zm					0.1			—		0.002		5218	5.0		patchy epidote 3-5%	
446.0		B				EPI	Zm					1			—		0.004		5219	5.0		patchy + diss epidote 5-7%	
451.2		B				EPI	Zm					0.1			Ord		0.001		5220	40.2		composite sample, Bleaky diss fg pyrite, Strong	core 446 - 475 ft. Rare diss + stringer epidote

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DRILL HOLE DM 14-6

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS												Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
		Com	Grs	Text	Co	Alt	Nam	B/S B	B/S A1	J/F J	J/F A2	GANGUE C%		B%		C%	METALLIC D%		E%	Au	F%							
496.0		M	Vfg	MSV	66	EPI	2M					—					—			—						whole Rock Sample.	Mod. diss. epidote.
546.0		B				EPI	2M		J	60		1					0.1			0.001						Blocky core, composite Sample. Qtz-cc veinlets to 3cm. Moderate patchy-diss. Stringer epidote. Rare diss. fg Pyrite.	
																										The intensity/abundance of epidote alteration is noticeably decreased by roughly 546 ft. Below 546 ft, epidote is still present, occurring as local sections of diss-patchy-stringers, but these local sections are only 3-4 ft in length. The rock between these epidotized sections is mostly a massive aphanitic to fg mafic flow that is typically moderately calcitic. These sections of mafic flows can take on a weak monolithic fragmental texture over local 3-4 ft intervals (eg 532-536 ft.) Trace-1% qtz-cc veins (45° to CA). 596-636 ft. Local patchy ser alt= +/- fg diss. anhedral pyrite. 596-636 ft.
596.0		M				EPI/CH	2M					0					0.1			0.001				5223	50.0		Composite Sample.	
646.0		M				EPI/CH	2M		V	45		1					—			0.001				5224	50.0		Composite Sample.	
660.9		M				SER	2M					—					0.1			0.001				5225	14.9		Composite Sample. weak-moderate ser alt=	
																											PLAGIOCLASE-PORPHYRITIC MAFIC FLOW (660.9 - 1000.4 ft.)	
																											Color: medium green-grey, very hard, non-magnetic, moderately to homogeneous, porphyritic, rounded, fine to medium grained anhedral plagioclase phenocrysts, set in an aphanitic mafic matrix. 1-3% qtz-cc	Strongly calcitic, massive texture with abundant veinlets, rarely

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EXPLORATION DEPARTMENT

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																					exceed 1-3 cm in size. Sulphides <1% except for occassional py-po-cpy in qv's as described below.	
																					704.7 - 720.3 ft: weak to moderate pervasive hematitic section	
																					680 - 692 ft: section of strong sericite alteration with 3-5% chl stringers and spots.	
																					737.0 - 744.2 ft: sericitized section containing common stringers and beds of chlorite.	
666.0		m	mg	PGR	66	—	2m					0.1			—		0.001		5226	5.1	plag-microcline porphyritic	
671.0				PGR		SER	2m	V	10			3			—		0.001		5227	5.0	Qtz-cc-(tour) veins, weak along vein walls.	2-3 cm minor ser alt'n
676.0				PGR		—	2m					3			—		0.001		5228	5.0	Qtz-cc-bx-stockwork veins to 5mm.	
681.2				PGR		SER	2m					3			—		0.001		5229	5.2	weak ser alt'n with 1-3% chl fractures (stkwk), Qtz-cc veinlets at all angles. TIA.	
683.1				PGR		SER	2m	V	50			10			1		0.002		5230	1.9	5-7 cm Qtz-cc-tour vein @ 683.1 ft contains a py-cpy sulphide assemblage (cpy 7, py). Mod ser alt'n	
686.0						SER	2m								0.1		0.001		5231	2.9	strong ser alt'n with 25-30% patchy + banding chl, trace diss py	
691.0						SER	2m	V	65			3			0.1	no.	0.001		5232	5.0	3-4 Qtz-cc-bx-tour veins, max 5cm, strong ser alt'n, trace diss fg euhedral py + fg no. laminated Qtz-tour vein @ 688 ft.	
696.0						SER	2m					3			—		0.001		5233	5.0	mixed ser-chl-tour alt'n, thin Qtz-cc veinlets to 5mm	
701.0						HEM	2m	V	20			3			—		0.001		5234	5.0	weak pervasive tour alt'n, thin Qtz-cc veinlets to 5mm.	
706.0						HEM	2m					3			—		0.001		5235	5.0	weak pervasive tour alt'n, Qtz-cc veinlets to 5cm.	

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EXPLORATION DEPARTMENT

DRILL HOLE CM94-6

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Aw	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
711.0		m	Mg	por	hb	Hem	Zm					1			—		0.001		5236	5.0		weak pervasive fem alt=	
716.0						Hem	Zm					1			—		0.001		5237	5.0		mod. pervasive fem-ltd alt=	
721.0						Hem	Zm					1			—		0.002		5238	5.0		weak pervasive fem alt=	
726.0						—	Zm					0.1			—		0.001		5239	5.0		massive porphyritic flow:	
732.0						—	Zm	J	10			1					0.008		5240	6.0		trace vuggy qtz-cc veinlets	
736.0						SER	Zm					0.1			—		0.008		5241	4.0		moderate pervasive ser-chl alt=	
741.0						SER	Zm					—					0.001		5242	5.0		strong ser-chl alt=	
746.0						SER	Zm					—			—		0.002		5243	5.0		strong ser-chl alt=	
751.0						—	Zm					1			0.1		0.007		5244	5.0		fresh plagioclase-porphyritic flow:	
796.0						HEM	Zm	U	15			3			0.1		0.007		5245	45.0		composite sample. Trace fem alt= 762-767 ft. thin qtz-cc-chl-specten veinlets to 1cm.	
845.2						—	Zm					1			0.1		0.002		5246	49.2		abundant plagioclase phenocrysts, qtz-cc veinlets to 1cm	
846.0							Zm										—		5247	0.8		Whole Rock Sample.	
																						851.0-870.1ft: Diabase Dike. Colour dark grey, hard, weakly magnetic, strongly calcitic. Massive very fine grained porphyritic texture with fine laths of plagioclase set in an aphanitic mafic matrix. Upper contact irregular and at low angle TCA, lower contact is sharp and at 80° TCA. 3-5% qtz-cc veinlets at all angles TCA.	

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EXPLORATION DEPARTMENT

DRILL HOLE CM 94-6

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	/m	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																						870.9 - 900.4 ft.: Essentially, still the plagioclase-porphyritic mafic flow, but it has been affected by a curious alteration assemblage consisting of epidote-chlorite-sericite - and (orthoclase??). The epidote is as diss. grains + pellets + (stringers), while the ser-chl is more as pervasive. 1-3% stringer magnetite is observed 875.1 - 881 ft. Narrow diabase dike 874.7 - 875.1 ft. Lower contact is quite sharp and easily discernable, is irregular but is at a high angle to CA.
870.9		M	vfg	POR	DGY	CHL	7dia					3			—		0.001		5248	34.9		Mostly calcite diabase dike.	
876.0		M	mg	POR	GY	EPI	7m					1			0.1		0.001		5249	5.1		mixed altered mafic flow + diabase dike.	
881.0						ON TH	7m					1			1		0.003		5250	5.0		1-3% stringer magnetite, 1% diss vfg Py, mixed epi-ser-len-alt?	
886.0						ON TH	7m					—			0.1		0.003	DXR	5501	5.0		mixed alt? epi-len-ser-ortho-chl.	
891.0						CHL	7m					—			0.1		0.005		5502	5.0		mixed epidote-chlorite-ser alt?	
896.0						CHL	7m	V	15			1			0.1		0.001		5503	5.0		mixed ser-chl alt?, qtz-chl veins to len.	
900.4						CHL	7m					—			—		0.001		5504	4.4		mixed chl-ser alt?	
															0.004		/15						
																						MAFIC FRAGMENTAL (900.4 - 975.0 ft.) Colour: medium green-grey, weakly magnetic, moderately to non-calcitic, quite hard. Massive fragmental texture with rounded to 1mm - len sized fragments set in an aphanitic matrix matrix. Trace - 1% qtz-cc. veinlets, rarely enlarged len. in abundance. Trace - rare diss. fg. euhedral pyrite.

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DRILL HOLE LM 24-6

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%	Au	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
945.2		M	Mg	F-MG	Mbt	—	Zopg	020				1					0.1			0.002		5505	44.8			
946.0							Zopg					—								—		5506	0.8		Whole Rock Sample.	
975.0							Zopg	060				3					0.1			0.007		5507	22.0		Composite sample.	
																									PLAGIOCLASE PORPHYRITIC MAFIC FLOW. (975.0 - 1025.4 ft). Colour: medium green-grey, hard, non-magnetic, non-calcitic. Massive, porphyritic texture containing abundant (20-25%) pale to dissemminated grains of yellow-green, plagioclase phenocrysts set in a massive, aphanitic mafic groundmass. Some short sections show a felsitic, fragmental texture (eg. 994 ft). This unit also contains a number of dikes or largish fragments of what appears to be a fine felsic ash to fragmental tuff. These dikes are typically 0.1 ft in width, but can reach 0.2 ft (0.75'). They typically contain no epidote, with rare less than 5mm-1cm in width. Epidote alteration is common, occurring as mostly discrete, thin veinlets or the edge of 2cm in width. Minor qtz-cc-ch veinlets throughout, most to have disseminated anhedral pyrite. Lower contact is gradational over 2-3 ft.	
1025.4		M	Mg	PMF	Mbt	EPI	Zm					0.1					0.1			0.002		5508	50.4		Composite sample.	

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EXPLORATION DEPARTMENT

DRILL HOLE CM94-6
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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																						MAFIC PORPHYRITIC MAFIC FLOW. (1025.9-1152.9 ft)	
																						Colour variable from medium grey to green-grey to yellow-green, hard, non-magnetic, variably calcitic. Massive, very fine grained porphyritic texture with 3-5% fine grained rounded to rectangular mafic phenocrysts set in a granular mafic matrix. These phenocrysts rarely exceed 1mm in size. Some sections display a fragmental texture over 1-2 ft, others display a very weakly developed amygdaloidal texture. Qtz-calcite veining is 1-3% in overall abundance, occurring mostly as very thin veinlets at all angles to CA. 2cm calcite vein (35° TCA) at 1046.5 ft. Epidote is by far the most common vein material, occurring in 5-7% overall abundance. The epidote veins occur mostly as "sigmoidal sweeps" at 35° TCA and as irregular wispy veinlets. Epidote veinlets rarely exceed 1-2mm in width. Textural relationships show that qtz-cc-chl veinlets clearly cross-cut epidote veinlets at 1062 ft. Pyrite is typically associated with the epidote veinlets occurring as ubq-fg anhedral grains. Rare disseminated pyrite is observed through the least altered rock as well. Rare specular hematite fractures to 1mm in width are present throughout at roughly 35° TCA. A copper speck was seen at 1062.8, clearly post-dates the qtz-cc vein set. Rare CHALCOPYRITE observed with some epidote stringers. (eg 1086.6 ft).
																						composite samples	
1076.0		B	vfg	POR	GG	EPI	2m					1			0.1		0.002		5309	50.6			

1201.5
1152.9
1213.0

PAGE 2

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DRILL HOLE CM94-6

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DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS																Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
		Com	Grs	Text	Co	Alt	Nam	B/S B	B/S A1	J/F J	J/F A2	GANGUE C%		GANGUE B%		GANGUE C%		METALLIC D%		METALLIC E%	METALLIC Au	METALLIC F%										
1126.0		M	vfg	Por	Gb	—	Zm					5						0.1			0.002							5510	50.0		Composite Sample. Amygdaloidal section 1106 – 1126 ft. 1-3% epidote veinlets.	
1126.8							Zm					1						0.1			—							5511	0.8		Whole Rock Sample.	
1152.9							Zm					3						0.1			0.013							5512	26.1		Abundant mafic phenos, these may possibly be chlorite-filled amygdules. Minor sericite along some qtz-cc vein contacts.	
																															PLAGIOCLASE PORPHYRITIC MAFIC FLOW (1152.9 – 1213.0 ft).	
																												*			Colour, medium green-grey, hard, non-magnetic, non-calcitic. Massive. Porphyritic texture containing 1-3% diss fine grained anhedral plagioclase phenocrysts set in an aphanitic mafic matrix. 1-3% qtz-cc veinlets to a maximum of 5cm-long in width (65° TCA), some of which have bilateral sericite alteration along vein walls. 1-3% thin epidote stringers are typically at high angles to CA. Trace-1% diss fg. anhedral pyrite.	
1209.5		M	fg	Por	Gb	Ep	Zm					3						0.1			0.001							5513	56.6		Composite Sample.	
1210.1							Zm					—						—			—							5514	0.6		Whole Rock Sample	
1213.0							Zm					0.1						—			0.001							5515	2.9		w/ qtz-cc veinlets.	
																															MAFIC FRAGMENTAL (1213.0 – 1277.2 ft). Colour, medium green-grey, hard, non-calcitic, non-magnetic, well developed fragmental texture containing several distinct compositions of rounded fragments to 1-2cm in size. Trace qtz-cc veinlets to 1-3mm in width. Strong epidote alteration throughout the unit. The	

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DRILL HOLE 1on29-6
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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	EPI	B%		C%	METALLIC D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																									epidote occurs as pervasive alt'n, patches, veins and beds to 1ft in length. Overall abundance of epidote is easily estimated at 10%, occurring mostly in the 1216.0 - 1277ft section.	
																									1216.0 - 1277 ft: Strong epidote alteration containing magnetite - chalcopyrite - pyrite. POSSIBLE HEM ANOMALY. Epidote easily makes up 50% of the interval and contains 3% combined chalcopyrite - pyrite (CPY/PY), as vfg dissemination within more heavily epidotized sections. Magnetite is also present (5%), although it is not clear if the magnetite was pre-existing and has been overprinted by epidote or if the magnetite was a component of the alteration system. No clear orientation of the alteration system is discernable, however several bands/ veins are oriented at 75° TCA.	
																									1253.5 - 1259.4 ft: SEMI-MASSIVE PYRITE with EPIDOTE. Coarse patchy pyrite occurs throughout the epidote zone. Upper vein contact is oriented at 30° TCA. POSSIBLE HEM ANOMALY.	
																									1262.3 - 1276.3 ft: Intermediate (?) Dike. Dark grey, non-magnetic, non-calcitic. Massive, fine grained, porphyritic texture with 1-2mm sized plagioclase phenocrysts throughout. Several large fragments to 1-2cm in size. Upper contact at 85° TCA, lower contact @ 85° TCA.	
1216.0		B	vfg	FRAG	tan	EPI	2ppg						0.1		5			0.1		0.002		5516	3.0		weak pervasive epidote.	

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0.004 / 10

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DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS														Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
		Com	Grs	Text	Co	Alt	Nam	B/S B	B/S Ai	J/F J	J/F A2	GANGUE qtz	GANGUE C%	GANGUE EPI	GANGUE B%	GANGUE	GANGUE C%	METALLIC Ag	METALLIC D%	METALLIC cpy	METALLIC E%	METALLIC Au	METALLIC F%							
1270.8		B	ufg	FBMG	GN	EPI	Zugg						—		50				0.1		1	0.004				551.7	4.8		strong epidote alt= centering mt-chl-cpy	
1273.0		B				EPI	Zugg						—		50				0.1		1	0.004				552.8	2.2		strong epidote alt= 5-7% mt, 1-3% chl	
1276.0		B				EPI	Zugg								20				0.1		0.1	0.003				553.9	3.0		moderate veggy epidote veins to 3-4 cm.	
1281.0		M				EPI	Zugg						1		5				—		—	0.001				555.0	5.0		weak pervasive epidote alt= trace qtz-carb veins	
1286.0		M				EPI	Zugg						1		10				—		—	0.002				556.1	5.0		moderate pervasive + vein epidote alt=	
1291.0		M				EPI	Zugg						3		1				—		—	0.001				557.2	5.0		weak pervasive epidote, minor qtz-carb stockwork	
1296.0		M				EPI	Zugg						1		5				—		—	0.001				558.3	5.0		minor epidote veinlets to 1-2mm	
1301.0						—	Zugg						3		0.1				—		—	0.001				559.4	5.0		minor qtz-carb veinlets, conjugate @ 45° TCA	
1307.8						EPI	Zugg						1		5				0.1		—	0.001				559.5	6.8		weak epidote alt= minor qtz-carb veinlets	
1314.8						EPI	Zugg						—		50				50			0.098				559.6	7.0		Smsv py + epidote. (pv.??)	
1328.8						EPI	Zugg						1		10				—			0.001				559.7	4.0		epidote veinlets to 5mm	
1342.8						EPI	Zugg						1		10				—			0.001				559.8	4.0		pervasive + vein epidote alt=	
1346.0						—	Bcl						—		—				—		—	0.001				559.9	3.2		intermediate dike	
1371.3							Bcl						—		—				—		—	0.001				560	5.3		intermediate dike	
1377.0						EPI	Zugg						—		20				—		—	0.001				561	1.5		minor patchy + vein-type epidote alt=	

SYENITE DIKE (1272.8 - 1337.0 ft).
Color dark grey to red-brown, very hard, non-calcitic, non-magnetic although locally can be weakly magnetic. Massive, medium grained, porphyritic texture with

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																					both plagioclase and matrix phenocrysts set in an aphanitic matrix. The plagioclase phenocrysts are up to 2mm in size, and subrounded and are of light grey colour. Variable hematite alteration, particularly around the rims of the plagioclase phenocrysts. Qtz-cc vein abundance is on the order of 1-3% occuring as thin veins at all angles, locally and to a maximum of 5mm in size. Rare diss. Utg pyrite.	
1326.0		M	Mg	PHR	LY	HEM	BS					3			0.1		0.001	5532	5.0		composite sample.	
1337.0						HEM	BS					1			0.1		0.002	5533	11.0		composite sample.	
																					MAFIC FRAGMENTAL(?) (1337.0 - 1366.2 ft.). Color variable from black to medium grey-grey, moderately hard, weakly magnetic, variably calcitic, especially within 5-10 ft. of lower contact. Massive lapilli fragmental texture is rather well developed, with fragments of mafic intermediate intrusive and felsic intrusives. 1-3% thin qtz-cc veinlets form a weakly stockworked pattern throughout. Trace-1% disseminated very fine grained subhedral to euhedral pyrite is present within narrow zones of weak sericite alteration in the vicinity of 1352 ft. weak patchy epidote alteration. Both upper and lower contacts are subtle.	
1341.0		M	Mg	FRAG.	BK	EPI	2ggg					0.1			-		0.001	5534	4.0		blocky, weakly magnetic.	
1346.0						EPI	2ggg					0.1			-		0.001	5535	5.0		weak stronger epidote alt=	
1351.0						HEM	2ggg					0.1			0.1		0.000	5536	5.0		weak hematite alt=	

1416.2
1366.2
49.8

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DRILL HOLE UM 14-6

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
1356.0						—	Zygg					0.1					1			0.001		5537	5.0		trace - 1% diss. vfg. euhedral pyrite.	
1361.0						—	Zygg					1					1			0.001		5538	5.0		trace - 1% diss. vfg. euhedral pyrite.	
1366.2						—	Zygg					3					0.1			0.001		5539	5.2		moderate qtz-ce. stockworking.	
																									SYENITE DIKE (1366.2 - 1416 ft): Colour pinkish-red, hard, non-magnetic, moderately calcitic. Strong porphyritic texture with rediw. grained, anhedral - euhedral plagioclase phenocrysts sitting in a granular hornblendic-matic matrix. Overall phenocryst abundance is estimated at 5%, with intergrowth of the plagioclase grains showing 3 orientations. 1-3% fine qtz-ce veinlets form a conjugate veined pattern at angles of 30° TCA.	
1416.0		M	Mg	POR	AB	HEM	BS					3					—			0.001		5540	49.8		composite sample.	
1416.0							EOH																		END OF HOLE	
																									All casing left in place and hole was capped. Hole is making abundant water under pressure.	

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PROJECT: Lac McVittie — core size: BQ — Logged By: R. Pressacco

Start: Oct 24, 1994 — PAGE 1 — End: Oct 29, 1994

CAT — Date: __/__/19__ — Page 1 of 4

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	~~LEASE~~ CLAIM
LM94-7	34100N	36100W	surface	1136 ft				767461

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	180°	-45°	800	193	-45°									
230	184	-46°	1000	199	-45°									
406	185°	-46°	1136	204	-44°									
600	191	-45°												

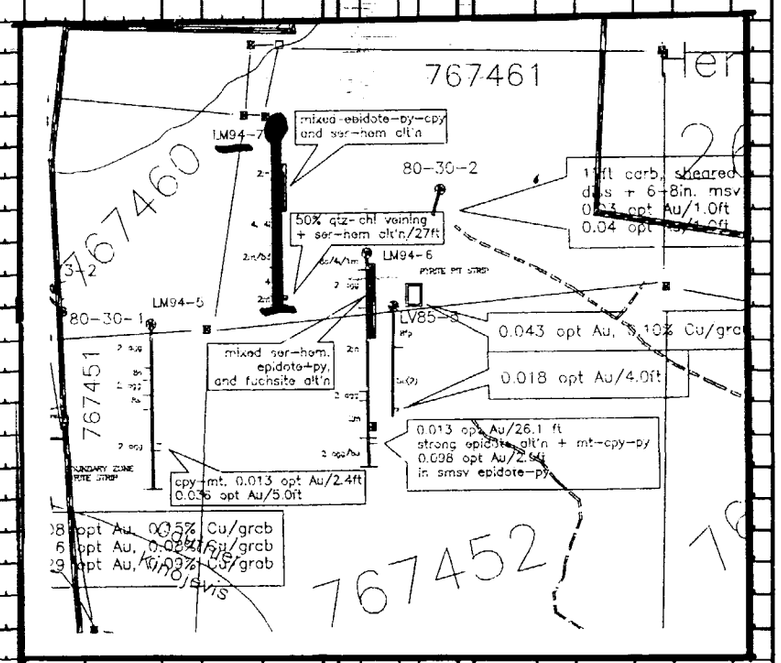
Core Storage: Beaverhouse Corestack

DIST	Id
212	

ROCK DESCRIPTION					
Com	Grs	Text	Co	Alt	Nam
					MAS

STRUCT.			
B/S		J/F	
B	A1	J	A2

MINERALS											
GANGUE						METALLIC					
	A%		B%		C%		D%		E%		F%



Spl #	Wdth	T

COMMENTS 1	COMMENTS 2
NW casing to 130 ft., BW casing to 212 ft.	
MASSIVE, MAFIC, FLOW (212 - 396 ft). Color variable from medium green to dark grey-green, weak hard, moderately magnetic, mm-scale chl-rich. Massive very fine grained textured. Trace qtz-cbt veinlets to 1-2mm in width. Local sections of up to 3-4 ft. display mixed, porphyritic and fragmental textures. Fine to medium grained plagioclase-porphyritic matrix-intermediate. dikes are noted at 241.4 - 257.8 ft and 286.3 - 303.7 ft. Intrusive contacts as follow: 55° TCA (241.4 ft), 65° TCA (257.8 ft), 50° (286.3 ft), and 30° TCA (303.7 ft).	
212 - 290 ft: Zone of epidote alteration containing variable amounts of associated pyrite. The overall abundance of epidote is estimated at 5-7%, with local sections of up to 1 ft being almost massive epidote-(sericite) alteration. Much of the epidote occurs as thin veinlets/stringers and irregular, elongated patches on the order of 5mm - 1cm in size. Pyrite is commonly associated with these epidote stringers and patches, occurring mostly as tiny stringers and patches with lesser amounts of disseminated grains either directly associated with the epidote or in very close proximity.	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

DRILL HOLE CM94-7

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	Al	J/F J	A2	MINERALS GANGUE QTZ	C%		B%		C%	METALLIC Py	D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																											The overall pyrite abundance is estimated at 1-3%. One local section at 263.5-269.5 ft contains 25-30% pyrite that occurs as breccia-filling to matrix fragments in a clear hydrothermal texture. No epidote is associated with this section of pyrite. Rare amounts of massive glassy quartz can be observed with some epidote stringers, but these quartz occurrences rarely exceed 1-2cm in size. Rare chalcopyrite is observed in a 5mm wide qtz vein at 223.4ft.
216.0		M	Ufg	mSv	6Y	EPI	2m						0.1						0.1			0.003		5591	4.0		moderate stringer epidote	
221.0						EPI	2m						0.1						1			0.002		5592	5.0		strong stringer + patchy epidote containing less Py.	
226.0						EPI	2m						0.1						0.1			0.002		5593	5.0		strong pervasive + stringer epidote. Trace cpy in qtz	
231.0						EPI	2m						0.1						0.1			0.001		5594	5.0		patchy + fine stringers/veinlets of epidote alt^n.	
236.0						EPI	2m						—						0.1			0.001		5595	5.0		weak stringer epidote. Vuggy/silic textures?	
241.4						EPI	2m						1						1			0.001		5596	5.4		stringer, patchy + brx matrix epidote. Minor qtz veinlets.	
246.0						—	Bcl						1						—			0.001		5597	4.6		Plagioclase-porphyritic intermediate dike.	
251.0						—	Bcl						—						—			0.001		5598	5.0		intermediate dike	
256.0						—	Bcl						0.1						—			0.001		5599	5.0		intermediate dike	
257.9						EPI	Bcl						0.1						—			0.001		5530	1.9		weak patchy epidote alteration.	
261.0						EPI	2m						—						0.1			0.002		5531	3.1		moderate patchy + stringer epidote	
266.0						EPI	2m						0.1						5		F	0.092		5532	5.0		weak stringer + brx epidote; 1.5ft of py brx.	

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DRILL HOLE LM 19-7

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS																		COMMENTS 1	COMMENTS 2
		Com	Grs	Text	Co	Alt	Nam	B/S B	B/S A1	J/F J	J/F A_2	GANGUE C%		B%		C%		METALLIC D%			E%		F%	Spl #	Width	T					
270.0						EPI	Zm					0.1						3				0.008		5353	5.0					strong stringer epidote with pyrite.	
276.0						EPI	Zm					0.1						1				0.007		5354	5.0					Moderate patchy epidote with pyrite.	
281.0						EPI	Zm					1						1				0.011		5355	5.0					Moderate patchy & hairline epidote, trace qtz-cc veinlets.	
286.0						EPI	Zm					1						0.1				0.001		5356	5.0					weak stringer epidote.	
291.0						EPI	Zm					0.1						1				0.006		5357	5.0					weak stringer epidote with pyrite.	
296.3						EPI	Zm					—						0.1				0.004		5358	5.3					weak pervasive & stringer epidote with pyrite.	
301.0						—	Gd					0.1						—				0.001		5359	4.7					intermediate dike.	
303.7						—	Gd?											—				0.004		5360	2.7					intermediate dike?	
306.0						—	Zm					.5						1				0.002		5361	2.3					Qtz-cc veinlets to 3cm, ubq	stringer pyr.
311.0						EPI	Zm					0.1						1				0.004		5362	5.0					weak epidote stringers with pyrite.	
316.0						EPI	Zm					0.1						1				0.006		5363	5.0					weak epidote stringers & patches with pyrite.	
321.0						EPI	Zm					1						0.1				0.003		5364	5.0					weak pervasive epidote. Pyrite-fine-fragmental texture.	
326.0						EPI	Zm					0.1						0.1				0.001		5365	5.0					weak stringer epidote.	
360.2						EPI	Zm					3						0.1				0.003		5366	34.2					composite sample. weak stringer/fracture epidote alteration. Qtz-cc veinlets to 5mm at all angles. TCA. brecciated contact zone 2-3ft at 360.2ft.	
																														360.2 - 368.3 ft: ALTERATION ZONE. Color variable from red-brown to tan to yellow-green, depending on alteration, hard, weakly to moderately calcitic, moderately magnetic, depending on alteration. Very fine grained,	

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DRILL HOLE CM 99-7

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																						Foliated to fragmental texture. This zone consists of an assemblage of tonalite-sericite-(talc?) alteration that all occur as a mixture of pervasive alterations, all of which misplace the host lithology. Qtz-ankerite veining is present in 1-3% abundance and occurs as thin veins and patches. Minor ribboned veins are observed, with max. vein size being 1-2cm. Pyrite abundance overall is 1%, occurring both as very fine grained disseminations and as occassional coarser patches of 1-2 crystal aggregates w. 1-2cm max size. Core Angle: 45° to CA at 366 ft. Foliation. Core Angle: 60° to CA at 365 ft. Qtz veins along foliation.
																						368.3 - 396.0 ft: TRANSITIONAL ZONE OF ABUNDANT QUARTZ-ANKERITE VEINLETS. Overall veinlet abundance is estimated at a good 7-10% occurring as thin 1-3mm wide veinlets and 1-2cm sized patches at all angles to CA. Some of the veinlets take on a pinkish coloration suggestive of tonalite alt^n. Strongly calcitic, moderately magnetic. Trace diss. 1% pyrite.
364.5		M	vfg	mod	nil	HEM	ALT	F	55			5			1		0.009		5567	4.3		Hem-ser alt^n, pvfg diss & patchy pyrite.
368.3						HEM	ALT	V	50			7			0.1		0.002		5568	3.8		qtz veinlets & ribbon veins to 2cm.
373.2		M	vfg	MOD	LT	CAL	ZM					3			1		0.002		5569	4.9		qtz-cbt-py stockworking to 2-3mm.
377.9						CAL	ZM					5			1		0.001		5570	4.7		qtz-cbt-py stockworking to 5mm.
381.3						—	BD					1			—		0.002		5571	3.4		intermediate dike.
386.0						CAL	ZM					5			1		0.006		5572	4.7		qtz-cbt-py stockworking to 3mm.

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EXPLORATION DEPARTMENT

DRILL HOLE UM94-7
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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
396.0		M	Vfg	mgr	6Y	CAL	2m					10			1		pool		5573	5.0		qtz-carb. veinlets, trace-1% py, weak, pervasive hematite.	
396.0						CAL	7m					15			0.1		pool		5574	5.0		strong qtz-carb. stockworking, trace pyrite, weak pervasive hematite.	
																						ALTERATION ZONE (396.0-475.6 ft). Colour variable from light green to yellow to red-brown depending on alteration, moderately soft, non-magnetic, non-calcitic, very fine grained, foliated texture with only extremely local sections exhibiting sheared textures over less than 1 foot. The alteration is characterized by sericite, with minor amounts of hematite alteration in the 396-401 ft and talc-chlorite in the 411-418 ft section (saprolite?). All alterations occur as ubiquitous, locally foliated pervasive alteration. Sulphide minerals are present in trace-1% abundances throughout the interval. The sulphides are dominated by pyrite, but very chalcopyrite can be observed on occassion (eg. 405 ft). The sulphides occur chiefly as fine to very fine grained, disseminated anhedral grains and tiny patches that rarely exceed 2-3 mm in size. Quartz veining, per se, is absent, except for the 410.5-411.4 ft and 418.2-421.5 ft intervals. The 418.2-418.5 ft section is made of a qtz flooding/patches zone, but below 418.5 ft to 421.5 ft, the core consists of a massive quartz vein containing traces of tourmaline and specular hematite. 1 inch of healed fault gauge/hematitic breccia is noted at 421.5 ft. The alteration becomes weak and patchy in the 422.6-425.6 ft interval.
																						Core Angle: 45° to CA at 412 ft. Foliation. Core Angle: 60° to CA at 416 ft. Qtz veins.	

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EXPLORATION DEPARTMENT

DRILL HOLE (ML)94-7
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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	Ai	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
406.0		M	vfg	FOL	MB	HEM	ALT	F	45			1			3		0.003		5575	5.0		mixed hem-ser alt'n, vfg, diss + patchy Py	
406.0					YG	SER	ALT					1			3		0.003		5576	5.0		diss + patchy pyrite, rare patchy cpy @ 494.5 ft.	
411.0					YG	SER	ALT					7			1		0.004		5577	5.0		qtz-carb. patches, rare ribboned qtz vein.	
416.0					YG	TALC	ALT					5			3		0.002		5578	5.0		qtz-carb. stockwork, diss vfg + patchy pyrite.	
417.9				FRAG	YG	TALC	ALT	F	75			0.1			0.1		0.004		5579	1.9		fine fragmental texture, fracture qtz-Py-carb. sheared texture.	
421.4				VEIN	WH	TALC	QU	V	70			80			01		0.014		5580	3.5		Massive qtz + qtz-carb. vein as described above.	
425.6				MUT	YG	SER	ALT					1			0.1		0.005		5581	4.2		mixed ser-chl-talc patches, alt'n weakening.	
																						MAFIC PORPHYRITIC MAFIC FLOW(?) (425.6 - 510.6 ft): Possible intermediate dike. Colour variable from medium to dark grey-green to red-brown, depending on alteration, non-magnetic, non-calcitic, very hard. Massive, very fine grained porphyritic texture containing 3-5% vfg mafic phenocrysts throughout. Rare disseminated pyrite. Moderate to strong pervasive hematite alteration is noted in the 425.6 - 495 ft. Moderate to strong epidote alteration (patchy/locally) is noted in the 494 - 510.6 ft interval. The intervening host rock is more or less fresh, but contains traces of thin epidote stringers. Qtz-carb. vein abundance is on the order of 3-5% occurring mostly as larger veins to 1-2cm oriented at roughly 35° TCA. Veins of a purplish coloured non-calcitic, hard, silicate material (AXINITE?) similar to that noted in (ML)94-5 are present throughout this interval. These veins are somewhat larger than the qtz-carb veinlets (2-3cm), but occur

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DRILL HOLE UM14-7

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
																						in the same general as earlier. Some of these	
																						aplite veins contain medium glassy quartz	
436.0		M	ufg	por	bY	HEM	2m					3			1		0.006		5582	5.4		qtz-cc stringers, weak pervasive hematite alt=, trace py.	
436.0						HEM	2m					3			1		0.004		5583	5.0		extremely vuggy qtz-cht-cc vein let (2cm) at 435ft	
																						strong pervasive hematite alt=, trace diss py	
441.0						HEM	2m	V	15			5			1		0.003		5584	5.0		weak pervasive hem alt=, qtz-cc-chl veinlets to 2cm	
446.0						HEM	2m					3			0.1		0.002		5585	5.0		weak pervasive hem alt=, trace epidote	
486.0						—	2m					3			0.1		0.006		5586	40.0		Composite sample, trace-1% stringer epidote	
491.0						EPI	2m	C	60			1			—		0.003		5587	5.0		strong patchy pervasive epidote alt=, alt= contact	
																						@ 60° T.C.A. (like contact?)	
496.0						EPI	2m					1			—		0.003		5588	5.0		moderate patchy-strong epidote alt=	
501.0						EPI	2m					0.1			0.1		0.006		5589	5.0		strong patchy epidote alt=, trace diss ufg py	
506.0						EPI	2m					0.1			1		0.006		5590	5.0		strong patchy-strong epidote alt=, diss ufg py	
510.6						EPI	2m	C	30			0.1			1	V	0.014		5591	4.6		strong patchy pervasive epidote alt=, diss ufg py.	
																						Core Angle: 30° @ 510.6ft. Contact:	
															0.005/280'								
																						FELSIC FRAGMENTAL (510.6 - 767.3ft).	
																						Colour: medium to light yellow-green, moderately	
																						hard, non-magnetic, non-calcitic. Well developed	
																						fragmental texture containing 10-15% rounded	
																						light yellow coloured fragments to 3-5cm sitting	
																						in a darker green chloritic matrix. Trace	
																						to 1% qtz-cc-chl veinlets throughout, locally	
																						weakly foliated, trace-1% diss ufg anhedral	
																						pyrite.	

606.0
556.2
615.2

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DRILL HOLE CM84-7

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See supplemental sampling at end of log

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	Ai	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
556.0		M	Mg	FRAG	VG	—	4l					6			0.1		0.003	5592	45.4		composite sample.	
556.8						—	4l					—			—		—	5593	0.8		whole Rock Sample.	
606.0			vfg	MSV		—	4					1			0.1		0.002	5594	42.2		composite sample, massive texture (flow-like)	
																					616.0-638.2 ft. Interval of pervasive, strong sericite alteration containing minor pervasive hematite. 1-3% disseminated pyrite occurs as fine grained subhedral-euhedral crystals and as vfg. anhedral grains. Quartz-carbonate veining is roughly 1% abundance occurring as thin veins at low angle TCA and as larger veins to 10 cm paralleling the weak foliation (55° TCA). Some veins are ribboned containing thin bands of fine rock, others contain specular hematite, others contain chlorite. Chlorite-filled fractures (stockworks) are 3-5% in abundance, are on the order of 1-2 mm in size, and typically contain vfg. anhedral pyrite. Some of the larger fractures contain medium gtz-cc
611.0		M	vfg	MSV	GV	SER	4	V	55			3			0.1		0.001	5595	5.0		5cm ribboned QV at 601.5ft contains vug. diss. pyrite	
616.8						SER	4	V	0			3			0.1		0.001	5596	5.8		weak pervasive ser alt^n, minor gtz-cc veinlets & chlorite	
621.0						SER	4	V	0			5			1.		0.001	5597	4.1		mixed ser-ben alt^n, gtz-cc-chl veinlets & hematite at all angles TCA, 3-5% chl stringers, diss fg py	
626.0						SER	4	V	60			5			1		0.001	5598	5.0		strong ser alt^n, gtz-cc-ben veinlets, diss vfg py, weak ben	
630.5						SER	4	V	60			3			3		0.003	5599	3.5		strong ser alt^n, diss fg euhedral py.	
632.6						VGW	4	V	40			50			0.1		0.002	5600	2.1		0.7 ft. gtz-hematite vein	

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DRILL HOLE CM 94-7

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
636.0						SER	4					0.1			3		0.002		5601	3.9		strong ser alt=, abundant (7%) chl stringers = 1/3% Pyrite.	
638.2						SER	4					0.1			3		0.002		5602	2.2		abundant chl stringers, weak ser alt=, distinctly patchy Py.	
641.0						HEM	4					1			-		0.004		5603	2.8		weak pervasive hem alt=	
646.0						HEM	4					1			-		0.003		5604	5.0		patchy strong hem alt=	
686.0						—	4d					1			1		0.003		5605	50.0		patchy-fragmental texture (porphyritic?). Composite sample.	
775.1						—	4d					0.1			0.1		0.003		5606	79.1		Composite sample. Pervasive chl alt=	
726.0						—	4d					—			0.1		—		5607	0.9		whole Rock Sample	
767.3						CHL?	4d					0.1			0.1		0.005		5608	41.3		composite sample containing a number of 5-10cm bands of strongly magnetic material. Trace distinct patchy pyrite. Lower contact indistinct.	
																	0.004	1129.1					
796.0		B.	vfg	POR	GN	—	2m					0.1			-		0.001		5609	28.7		PORPHYRITIC MAFIC FLOW (767.3 - 845.7 Ft). Colour dk green, non-magnetic, very hard, non-calcitic. Massive fine to very fine grained porphyritic texture. The phenocrysts are dominated by 5-7% fine grained white phenocrysts, but 1-3% considered plagioclase phenocrysts are also present. 1-3% epidote stringers throughout. Locally fragmental texture. Bleaching. Possible Intermediate dike.	
845.7		M	vfg	POR	GN	—	2m					1			-		0.001		5610	42.7		composite sample.	

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DRILL HOLE CM94-7

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																						MAFIC FRAGMENTAL (850.7-858.8).	
																						Colour variable from dark grey to red-brown, hard, weakly magnetic, weakly calcitic, well developed coarse grained fragmental texture containing 25-30% hematitic / hematized fragments in an aphanitic grey-black matrix. Trace fine ghosty veinlets. Intermediate	
																						Dikes at 850.0-851.5ft and 852.5-854.3ft	
																						lower and upper contact is indistinct.	
848.8		M	Cg	FRAG	RB	HEM	2Dgg					1			-		0.03		5611	13.1		Composite sample.	
																						INTERMEDIATE DIKE (858.8-860.4 ft).	
																						Colour medium grey, hard, weakly magnetic, moderately to strongly calcitic. Very fine	
																						massive to very weakly porphyritic texture. 1-3% hairline qtz-cc veinlets, occassionally reach 5mm	
																						in size and are at all angles to core. Minor	
																						patchy qtz-cc-chl veinlets. Weak pervasive	
																						hematite alteration within 10-15% of upper	
																						contact.	
860.4		M	ufg	PORP	GY	CHL	8d					3			-		0.01		5613	31.6		Composite sample.	
																						FELSIC FLOW / FLOW BRECCIA (860.4 - 1061.0 ft)	
																						Colour medium yellow green, very hard, non-magnetic, non-calcitic. Massive and weakly	
																						fragmental to porphyritic textures are	
																						observed throughout. Some sections contain	
																						distinct sericitic irregularly shaped fragments	
																						in a darker green matrix, other sections	
																						contain ghosty dark coloured fragments and	
																						still other sections contain abundant fine	
																						plagioclase phenocrysts in an aphanitic	
																						glassy matrix. Trace qtz-cc veinlets, locally	

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DRILL HOLE Lm 14-7

DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS																COMMENTS 1	COMMENTS 2
								B/S		J/F		GANGUE						METALLIC											
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2		C%			B%		C%		D%		E%	Au	F%	Spl #	Wdth	T		
995.3		M	vfg	mixed	Vfb	SER	4						0.1							0.1			0.002		5613	5.0		rare diss & stringer fine grained - very fine grained euhedral - anhedral pyrite. Weak stringer epidote ± present in the 975 - 1032 ft section.	
996.0							4																		5614	0.7		composite sample.	
996.0							4						3							0.1			0.003		5615	5.0		Whole Rock Sample.	
1046.0							4						0.1							1			0.002		5616	5.0		composite sample.	
1054.0							4						0.1							1			0.001		5617	5.0		composite sample. Trace py-chl stringers & trace diss py.	
1056.0						SER	4						0.1							1			0.001		5618	5.0		diss. vfg. pyrite	
1061.0						SER	4						1							1			0.001		5619	5.0		mostly diss vfg pyrite, some stringer pyrite. Weak pervasive sericite alteration.	
																												3-5% qtz-chl-py. wiinkel stringers in conjugate pattern @ 15° & 75° A. Diss fg pyrite, moderate pervasive ser alt°, increasing in strength towards quartz veining.	
																												ZONE OF QUARTZ VEINING (1061.0 - 1088.0 ft.) Colour variable from white to pink to light yellow-green, hardness variable from soft (sericite-rich sections) to very hard (quartz veins), non-magnetic, non-calcitic in wall rock to veins. Textures are quite variable from veined / vein breccia to massive to weakly foliated, but the wall rocks are always very fine grained. The alteration in this section consists of a mixture of hematite - sericite, where textural relationships observed at 1082 ft suggests that the sericite overprints and is later than the	

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																						hematite alteration. Sericite is the dominant alteration, just barely with the 1072 – 1084 ft. section showing a stronger development of hematite alteration. 3-5% thin chlorite-filled veinlets (stockworks) cross-cut both alterations at all angles TCA and rarely exceed 1-2mm in width. Quartz vein abundance is on the order of 50% overall, occurring as a series of short sections/veins of quartz separated by altered sections of wall rock. These quartz sections are usually less than 6 inches in length, but one section at 1065 ft is 2 ft. long. The veins/sections occur at a number of orientations to CA up to a maximum of 20-30° TCA, but many veins are oriented almost parallel TCA. Indeed one vein at 1086 ft can be seen to be almost parallel to CA. These quartz veins contain a mixture of anhydrite-calcite (anh.77, cal) as the carbonate species, and common dark green sphalerite that occurs as tiny patches, thin streaks or larger patches to 5-7cm in length (eg. 1066ft). Rare to minor amounts of ufg. tourmaline is observed in some of the ribboned veins. Rare chalcopyrite with some of the quartz veins. A waxy, red-brown to pinkish material showing orthorhombic cleavage (like calcite) is present in a quartz vein at 1082 ft. (CELESTITE?).
																						Core Angle: 10° to CA at 1061.0 ft. VEIN	
																						Core Angle: 90° to CA at 1071.0 ft. Foliation	
																						Core Angle: 60° to CA at 1085 ft. VEIN	
1064.0		M.	ufg.	VEIN	VG	SER	VEIN	V	15			50			1		0.004		5620	3.0		Epithal vein with ser wall rocks, diss ufg py.	
1067.0						SER	VEIN					90			0.1		0.001		5621	3.0		massive qv with coarse, patchy chlorite, trace diss.	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

DRILL HOLE CM-87-7

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	Ai	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																						Ufg py. in wall rock. inclusions.	
1071.8						SER	ALT					5			1		0.001		5623	4.8		mod-strong ser alt^n wall rocks, occassional qtz	
1076.6						HEM	VEIN	V	15			30			1		0.001		5623	4.8		veins to 1cm, 10% chl stringers, diss ufg pyrite.	
																						mixed. hematite - sericite alteration, patchy. fg	
																						euhedral pyrite. Qtz-ank-chl veins to 5cm at low	
																						angles TCA.	
1081.6						HEM	ALT					7			0.1	SM	0.1	0.002	5629	5.0		mixed hem-ser alt^n, shattered qtz-chl-carb veining.	
																						Rare cpy @ 1078 ft.	
1085.2						HEM	VEIN	V	40			50			3		0.001		5625	3.6		irregular qtz-carb-chl veining, mixed hem-ser alt^n contains	
																						diss ufg, euhedral pyrite.	
1088.0						SER	VEIN					80			0.1		0.001		5626	2.8		Ribboned qtz-chl vein at low angle TCA.	
																	—		5627	*		*XRD Sample of anthoxborite, cleavage pinkish-reddish	
																						mineral (1083 ft). GALKSEITE? ANHYDRITE	
																						MASSIVE MAFIC FLOW (1088.0 - 1136.0 ft)	
																						Colour: medium green-grey, moderately hard,	
																						non-magnetic, strongly calcitic. Massive very	
																						fine grained granular texture. 3-5% qtz-calcite	
																						veins are up to .5cm in width and	
																						are oriented at roughly 15° TCA, at times in	
																						a conjugate vein sets. Rare diss. ufg. py	
																						associated with very weak hematite stringers.	
																						Moderate sericite alteration associated with	
																						qtz-calcite veining affects the core within the first	
																						5-6 ft of upper contact.	
1091.0		M	ufg	MSV	GG	SER	ZN	F	25			1			0.1		0.001		5628	3.0		mod. pervasive ser alt^n defines foliation.	
1096.0							ZN					1			—		0.002		5629	5.0		thin qtz-cc. conjugate veinlets.	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

DRILL HOLE CM24-7

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
1101.0						SER	7M					1					0.1			0.001		5630	5.0		Trace ser alt^n, bilateral to minor qtz-cc veinlets	
1106.0						—	7M					3					—			0.002		5631	5.0		qtz-cc stockworking, patches + veinlets.	
1135.5							7M					3					0.1			0.001		5632	29.5		composite sample.	
1136.0							7M					—					—			—		5633	0.5		Whole Rock sample.	
1136.0																									END OF HOLE	
																				—		5634	—		XRD sample of suspected garnet in epidote alt^d section (226 ft)	
																									SUPPLEMENTAL SAMPLING	
510.6																										
516.0						SER	4					0.1					1			0.008		5635	5.4		mod chl-py veining + patches, pervasive mod ser alt^n	
521.0						SER	4					0.1					1			0.020		5636	5.0		pervasive ser alt^n, overprinted by chl-py patches + veins.	
526.0						SER	4					0.1					0.1			0.003		5637	5.0		mod. pervasive ser alt^n, chl-py patches + veinlets.	
531.0						SER	4					0.1					d			0.016		5638	5.0		weak-mod pervasive ser alt^n + weak chl veining.	
536.0						CHL	4					0.1					1			0.009		5639	5.0		pervasive chl alt^n, diss ufg. euhedral-subhedral pyrite	
541.0						CHL	4	V	70			0.1					1			0.005		5640	5.0		5mm qtz-py vein at 538', weak chl-py stringers.	
546.0						SER	4					7					2			0.001		5641	5.0		minor qtz-cc veinlets 1-2%, pervasive ser alt^n, patchy + stringer chl-py. 5mm qtz-py vein @ 0° TCA @ 541 ft.	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

PROJECT : Lac Mevithie
core size BQ

Logged By : R. Dessacco

Start : Nov 1, 1994
PAGE 1 End : Nov 3, 1994

Date : __/__/19__
Page 1 of 7

DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE CLAIM
LM94-8	5100S	12100W	surface	806 ft				767446 + 767438

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	360	-50°	800	003	-50°									
200	356	-49°												
400	359	-50												
600	003	-50												

Core Storage: Beaverhouse Coreshack.

DIST	Id
30	

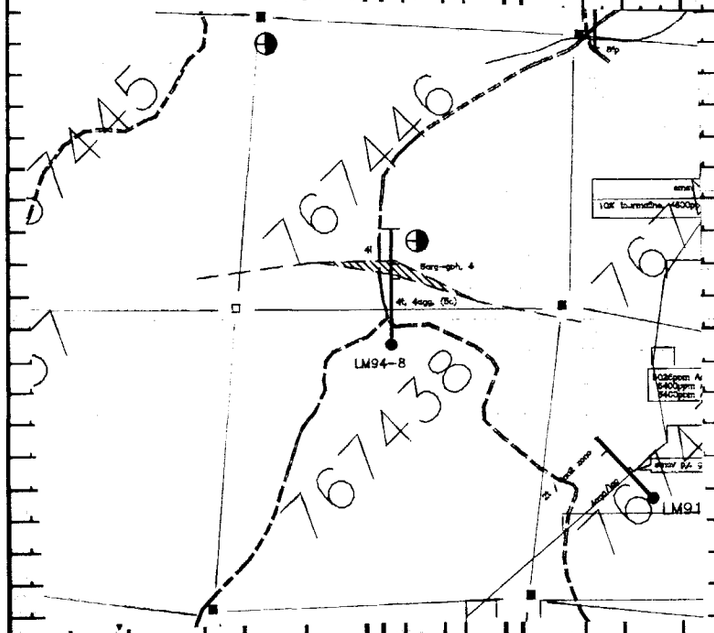
ROCK DESCRIPTION					
Com	Grs	Text	Co	Alt	Nam
					CAS

STRUCT.			
B/S		J/F	
B	A1	J	A2

MINERALS					
GANGUE					
QTZ	A%		B%		C%

METALLIC					
Py	D%		E%	Au	F%

Spl #	Wdth	T



COMMENTS 1	COMMENTS 2
NW casing to 30ft. Bq to 30ft. Both casings left in place on termination of hole.	
FELSIC - INTERMEDIATE FRAGMENTAL (30 - 473.1 ft). GAUTHIER GROUP	
Colour greenish grey, a medium to light grey green, non-magnetic, strongly calcitic, moderately soft, well developed fragmental texture for the most part, with local sections of up to 2-3 ft displaying a more massive, lithy grained texture. The fragmental textures, in themselves are somewhat variable, with fragment outlines ranging from very well defined to quite ghostly and indistinct. Where the fragments are more ghostly they are more mimetic, rounded to subangular and are less than 1-2 cm in size. The sections of well defined fragments (eg 100-140 ft) are polymictic in fragment composition and are more conglomeratic than tuffaceous/agglomeratic in appearance. These conglomeratic sections contain fragments ranging in size from 1cm to 1-2 ft, and while several different fragment compositions are present, the dominant lithology is an intermediate volcanic similar in appearance to the more massive textured sections. These conglomeratic sections vary from matrix- to clast-supported, with the matrix commonly being a mixture of argillite - greywacke. Fragments of syngenetic pyrite are observed in accessory in these conglomeratic sections. Quartz	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

DRILL HOLE CM 24-8
Page 2 of 7

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE QTZ	C%		B%		C%	METALLIC Py	D%		E%	Au	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
																											only rare 1-5cm wide.	gyb-cc stringers being
																											present. Strong pervasive	calcite enrichment of
																											the groundmass and matrix both is present however	
																											at times being strong	enough. So as to define
																											thin bands, combs etc. of	lighter coloured vein-like
																											material. Rare disseminated	pyrite. A "carbon-fractured"
																											texture is developed on occasion. Here, fragments	
																											of the host rock are outlined by 1mm-5mm	
																											braided, irregularly shaped, graphitic/argillite	
																											veinlets/stringers (eg. 129 ft.)	
																											Core Angle; 45° to CA at	102 ft. Bedding
86.0		M	vfg	FPAG	6%	CAL	4ssg						01						-		0.001		5642	5.0			
																											composite sample.	
146.0						CAL	SC						01						-		0.001		5643	60.0			
																											Composite Sample.	
																											well developed complementic texture 86-127ft,	
																											becoming more massive textured tuffaceous	
																											material below 126.0 at least 260 ft. This lower	
																											section consists more of a coarse ash tuff containing	
																											occasional fragments of intermediate flows felsite	
																											flows clast and argillites. weak steeply foliated	
																											texture as described above. Strong pervasive calcite	
																											enrichment as above.	
126.0						CAL	5C						-						-		0.001		5644	50.0			
																											Composite sample.	
235.0						CAL	4t						-						-		0.001		5645	32.0			
																											Composite sample	
236.0						CAL	4t						-						-		—		5646	1.0			
																											Whole Rock Sample	
286.0						CAL	4t						-								0.001		5647	50.0			
																											Composite sample. Max	fault gouge at 238 ft.

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

PAGE 2

DRILL HOLE CM99-8

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DIST	Id	ROCK DESCRIPTION						STRUCT.				MINERALS																				COMMENTS 1	COMMENTS 2
								B/S		J/F		GANGUE						METALLIC																	
		Com	Grs	Text	Co	Alt	Nam	B	A1	J	A2		C%			B%		C%		D%			E%	Au	F%	Spl #	Wdth	T					
326.0						CAL	At						–							–				0.001		5648	40.0					The massive textured ash tuff persists down to the 323 ft. depth. Below 323 ft. the core becomes more conglomeratic in texture again. Calcite intensity seems to be decreasing below 326 ft.	
376.0						CAL	SC						0.1							–				0.001		5649	50.0					Composite Sample.	
445.2						CAL	SC	B	40				–							0.1				0.003		5650	69.2					1.5 ft of graphitic argillite-rich conglomerate at 414 ft.	
446.0						CAL	At						–						0.0004	180				–		5651	0.8					Whole Rock Sample	
451.0						CAL	Aggy						–							–				0.003		5652	5.0					calcite intensity decreasing to weak	
457.0						–	Aggy						3							–				0.009		5653	5.0					minor sphene violet patches	
459.3						–	Aggy						1							–				0.002		5654	3.3					Trace sphene veinlets	
464.4						HEM?	Aggy						1							3				0.001		5655	5.1					Mixed patchy aphanitic and fine grained euhedral pyrite. Aphanitic pyrite associated with a weakly developed pervasive red-pink coloration (possibly hematite). Rare shear aphanitic pyrite	
469.0							Aggy						1							3				0.001		5656	4.6					mixed aphanitic pyrite with pink coloration and ubiq. semi-diss. euhedral pyrite. Minor vuggy voids. Minor sphene veining to 5 mm.	
473.1							SC						–							5				0.001		5657	4.1					Mixed tuff + graphitic argillite. Pyrite occurs as rounded patches of concretionary and massive aphanitic syngenetic pyrite.	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

PAGE 2

DRILL HOLE DM 94-8
Page 4 of 7

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%		METALLIC D%		E%		/m	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																											INTERBEDDED GRAPHITIC ARGILLITE AND FELSIC (??) FLOW (473.1 - 538.0 ft) Colour variable from light grey to black, non-magnetic, variable hardness from soft (graphitic argillite) to hard (felsic flow), non-calcitic, variable texture. The flows are composed of vfg massive homogenous light grey material while the graphitic argillites are typically well bedded and are affected by a crenulation cleavage (548.2 - 538.0 ft) and fault gouge (527.6 - 528.6 ft). The sections of graphitic argillite are located as follows: 473.1 - 486.5, 506.9 - 506.7 ft, 527.6 - 528.6 ft and 548.2 - 538.0 ft. These argillites typically contain up to 5% pyrite that usually occurs as patchy of syngenetic pyrite or as rounded concretions. The flows contain trace 1% pyrite that occurs as vfg - fg dissemenations. The argillite in the 473.1 - 486.5 ft section contains up to 25% interbedded siltstone and greywacke. Quartz veining is virtually absent in the 473.1 - 527.6 ft, but increases to 10-15% below the fault gouge (527.6-528.6 ft) to 538.0 ft. These veins contain up to 30% calcite and are barren, and occur as narrow veins and vein breccias to 6 inches in width.
																			0.004	17.9								
476.0		M	vfg	BED	BL	-	Sdg					-						5		[	0.004			5658	2.0		patchy syngenetic pyrite;	
481.0							Sdg	B	35			-						3		[	0.004			5659	5.0		interbedded greywacke - siltstone. Nodular pyrite.	
486.5							Sdg					-						3			0.002			5660	5.5		nodular + concretionary pyrite;	
491.0		M	vfg	MGW	GY	-	A											1			0.001			5661	4.5		diss vfg pyrite.	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

DRILL HOLE CM19-8

DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%		B%		C%	METALLIC D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
496.0		M	vfg	MSV	GY	—	4					—					0.1			0.001		5662	5.0		trace vfg diss pyrite.	
501.9		M				—	4	B	30			—					0.1			0.009		5663	5.9		trace vfg diss pyrite.	
506.7		B	vfg	BED	BK	—	Sdy										1			0.002		5664	4.8		syngenetic patchy pyrite, very blocky.	
511.0		M	vfg	MSV	GY	—	4					—					3			0.01		5665	4.3		diss + rare stringer vfg pyrite.	
516.6							4					—					1			0.001		5666	5.0		diss + rare stringer vfg pyrite.	
521.0		M					4					1					1			0.01		5667	5.0		diss fg entwined py, trace qtz stringers. Minor blocky core.	
526.0		B					4					0.1					1			0.001		5668	5.0		diss vfg pyrite.	
527.6		M					4					—					3			0.01		5669	1.6		mixed stringer + diss vfg pyrite.	
529.6		M					Sdy					—					3			0.03		5670	2.0		fault gouge, graphitic argillite containing syngenetic py.	
536.0		M					4					10					—			0.01		5671	6.4		qtz = cc veinlets / patches to 3 inches.	
541.0							4					5					0.1			0.01		5672	5.0		qtz = cc veinlets / patches, diss vfg pyrite.	
546.0							4					1					1			0.01		5673	5.0		rare-minor stringer pyrite.	
548.2							4					—					0.1			0.01		5674	2.2		trace diss pyrite.	
553.3		M	vfg	BED	BK		Sdy					1					5			0.01		5675	5.1		syngenetic patchy pyrite.	
558.0							Sdy	R	35			0.1					1			0.01		5676	4.7		Sz = 75°	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

DRILL HOLE CM 89-8
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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%	E%	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
																					CAPILLI TUFF C. 538.0 - 806.0 ft.).	
																					Colour light grey, soft, non-magnetic,	
																					moderately calcitic. Rather well developed	
																					fragmental texture with 5-10% angular to	
																					sub-rounded fragments to 2-3 cm in size.	
																					all matrix supported in a fine ash matrix.	
																					Trace fine pyrite patches	ed knots disseminated
																					pyrite. Trace-minor amounts of stringer veinlets	
																					Core Angle: 52° to CA	± 58L ft. foliation.
																					538.0 - 562.8 ft: Carbonaceous interval	
																					containing 10-15% disseminated patchy	
																					pyrite, weak pervasive pinkish colouring,	
																					strong foliation (possible shear fabric).	
562.8		M	Mg	FRAG	Gl	HEM?	SC	F	20			1			10		0.001	5677	4.8		patchy, disseminated pyrite. Strong foliation.	
566.0		M	Vfg	FOL	Gl	-	41					-			1		0.001	5678	3.2		minor diss. fg pyrite.	
571.0							41					-			0.1		0.001	5679	5.0		rare diss pyrite.	
576.0							41					-			-		0.001	5680	5.0		angular fragments to 5cm.	
581.0							41					-			-		0.001	5681	5.0		Same as above.	
586.0							41										0.002	5682	5.0		fine fragmental texture.	
636.0							41										0.002	5683	50.0		Composite sample, becoming weakly chloritic	
																					below roughly 626 ft.	
685.3						Clk	41					1			0.1		0.002	5684	4.3		trace qtz. veinlets +	stringers, chloritic
686.0						Clk	41										0.002	5685	0.7		whole Rock Sample	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

PAGE 2

DRILL HOLE DM-14-8
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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S	Ai	J	A2	MINERALS GANGUE C%	B%	C%	METALLIC D%		E%	Au	F%	Spl #	Width	T	COMMENTS 1	COMMENTS 2
691.0						CHL	41	P	35			0.1			0.1			0.002		5686	5.0		Trace tennantite, gtz-cc veinlets.	
696.0						CHL	41					3			3			0.001		5687	5.0		Patchy, aphanitic to fg veins to 5cm.	patchy pyrite, gtz-cc
701.0					VEIN		CHL	41				5			1			0.002		5688	5.0		gtz-cc-tourmaline veins to	10-15cm.
706.0					VEIN		CHL	41				75			1			0.006		5689	5.0		gtz-cc-tourmaline veins to	1-2 cm.
711.0					VEIN		CHL	41				3			a			0.001		5690	5.0		3-4 gtz-cc veins to 5	cm.
716.0					—		CHL	41				5			0.1			0.004		5691	5.0		3-4 gtz-cc veins to 5-7	cm.
721.0							CHL	41				1			0.1			0.019		5692	5.0		gtz-cc veins to 10cm.	
726.0							CHL	41				0.1			0.0006	120		0.001		5693	5.0		trace gtz-cc veining.	
731.0							CHL	4E		P	35	0.1			—			0.001		5694	40.0		composite sample, weak	foliation to 45° to CA.
736.0							CHL	4E				—			—			—		5695	1.0		white dyke sample	
806.0							CHL	4E				1			—			0.001		5696	40.0		trace gtz-cc veinlets.	

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

JECT : Lac McVittie — Logged By : [illegible]

PAGE 1

Date : 12 / 16 / 1994
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DRILL HOLE	NORTHING	EASTING	ELEVATION	LENGTH	OBI	OBE	INC	LEASE Claim
LM 94-9	6+00 S	L 32+00 W		764.4				767437

DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP	DIST	AZIM	DIP
0	180	50												
272	182	46												
744	192	30												

DIST feet	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nom	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE Qtz	A%		B%		C%	METALLIC Py	D%		E%	Au	F%	Spl #	Wdth	T
118.1							CAS																			
159.0		S		frag	gn	chl	BX	S	60				3											84401	WR	
160.0							QTZ															0.001		402		

COMMENTS 1	COMMENTS 2
Drilled: Dec 9-13 1994	
Contractor : Norex Rig #5	
Core Size : BQ ; Casing	left in hole
Purpose : Test I.P. Anomaly	
Claim : 767437	
NW. BW Casing in Sand	Overburden
Heterolithic fragmental-	lapilli tuff
subrounded mafic & felsic	frags tightly packed
in chloritic matrix	
Leucoxene specks overprint	frags and matrix
Minor local zones <12" of	shearing and granulation
with wispy sericite	
RQD > 90	
119 - 120 Limonite stained	sltly
130 - 131 Limonite stained	sltly
Quartz vein with chl schist	margins, limonite stained ;
chl frags ; vuggy ; alby	carb

ROYAL OAK MINES INC
EXPLORATION DEPARTMENT

DRILL HOLE LM 94-9
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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE Rx	C%		B%		C%	METALLIC Py	D%		E%	Au	F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
203.0		S		frag	gn	chl	2t	S	40			-	3									0.001		403			As at 159	
																											179-180 6" QV, chl schist margins; cren.	
																											184 2" QV, chl-lim margins	
																											191-192 6" QV; blocky, chl-lim margins	
																											196- undulations	
213.3		SSS					FLT						5									0.001		E4404			203-223.1 Fault Zone	11' core recovered; 9' lost
																											Blocky core of strong limonite stained 2bt	
223.1		SSS					FLT						5									0.001		405			and irregular quartz veins in chlorite schist.	
																											Qtz veins milky white with ankerite, limonite	
																											stained, and brown? mineral - anhydrite?	
																											Minor wispy sericite; qtz vuggy	
																											strong sheared + cren locally	
																											No sulphides observed.	
228.0						—	QTZ						50					Cp	.1			0.001		405			Irreg milky qtz veins 1"-	24" in [illegible] sheared 2bt 223.1 - 225.
																											minor wispy sericite	
																											One speck cpy at 227.8	; otherwise no sulphides
233.0		—	—	—	—	—	QTZ						50											406			Continuation of veining as at	228
239.0		S		chl	gn	[illegible]	2t						10									0.003		407			2bt as at 159	
																											Strong sheared qtz	Porphyry [illegible]
																											[illegible]	

DIST	Id	Com	Grs	Text	Co	Alt	Nam	B	Ai	J	A2	Gangue C%	Gangue B%	Gangue C%	Metallic D%	Metallic E%	Metallic F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
313.0		S		frag	gn	chl	2t	S	45			3						84408	WR		Essentially as at 159	
																					Prominent leucoxene overprint	
																					Wormy <½ qv's scattered	throughout
																					Few <½" T veinlets	throughout interval
																					at 60-80° CA	
																					RQD > 90	
																					Few [illegible]	[illegible] 302
[illegible]							FLT														Blocky, rubble [illegible]	[illegible] qz
338.0		S		frag	gn	chl	2t					3									Typical; as at 159	
371.0		S		[illegible]		ser	2t					5						84409	WR		Subtle change from typical	2bt as at 159
																					marked by wispy bands	[illegible]
																					of [illegible]	[illegible]
																					typical 2bt	
																					[illegible]	[illegible] at 159
																					Few wormy qv's < 1" [illegible]	four at 350
447.0		[illegible]		frag		chl	2t	S	40			[illegible]						84410	WR		Typical [illegible]	[illegible]
																					[illegible]	
																					[illegible]	
																					[illegible]	
																					406- [illegible]	
																					441-442 dyke as at	447-456

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S	Ai	J/F J	A2	MINERALS GANGUE Qtz	C%		B%		C%	METALLIC Py	D%		E%		F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
456.0		S	vfg	mott	y.g	ser	S																	84411	WR		Felsic dyke ?	
																											Matrix - aphanitic yellow -	green sericite schist
																											contains 30-50% ⅛"	chlorite clots
																											rare glassy qtz eyes	
																											-intrusive contacts	
																											[illegible]	[illegible]
522.0		S		frag	gn	chl	2t	S	40				3											84412	WR		FZ at 159	
																											Few ¼" - ½" veinlets	[illegible] 5+41
																											Weak hematite altn	480-485
527.0							FLT																				Blocky 2t ; slip with	gouge 30° CA at 526.5
616.0		S		frag	gn	[illegible]	2t						3											84413	WR		[illegible]	
																											[illegible] 0-24 [illegible]	[illegible]
																											frags [illegible]	[illegible]
																											560-564 low irreg qvs	
700.0		S		frag	gn	c-h	2t	S	60				3											84414	WR		Subtle change from above	(c-h = chl-hematite altn)
																											marked by increase abundance	of zones of hem altn
																											ie 630-633	
																											[illegible] - 655 [illegible] qvs	[illegible]
																											[illegible]	
																											677-680 - stronger hem	and shearing

COMMENTS 1	COMMENTS 2
Felsic dyke ?	
Matrix - aphanitic yellow -	green sericite schist
contains 30-50% ⅛"	chlorite clots
rare glassy qtz eyes	
-intrusive contacts	
[illegible]	[illegible]
FZ at 159	
Few ¼" - ½" veinlets	[illegible] 5+41
Weak hematite altn	480-485
Blocky 2t ; slip with	gouge 30° CA at 526.5
[illegible]	
[illegible] 0-24 [illegible]	[illegible]
frags [illegible]	[illegible]
560-564 low irreg qvs	
Subtle change from above	(c-h = chl-hematite altn)
marked by increase abundance	of zones of hem altn
ie 630-633	
[illegible] - 655 [illegible] qvs	[illegible]
[illegible]	
677-680 - stronger hem	and shearing

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EXPLORATION DEPARTMENT

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DIST	Id	ROCK DESCRIPTION Com	Grs	Text	Co	Alt	Nam	STRUCT. B/S B	A1	J/F J	A2	MINERALS GANGUE Qtz	C%		B%		C%	METALLIC Py	D%		E%		F%	Spl #	Wdth	T	COMMENTS 1	COMMENTS 2
764.4		S		frag	gn	chl	2t	S	60															84415	WR		Typical 2t zone at 159 etc. lencox overprint. minor wispy ser and hem.	
END																												

Typical 2t zone at 159 etc. lencox overprint. minor wispy ser and hem.

APPENDIX IV

Laboratory Certificates

Project	Hole No.	SAMPLE UNITS	Sample Type	Distance (Ft)	Length (Ft)	GEOLOGY	Au (ppb)	BE PPM	NA %	MG %	AL %	P %	K %	CA %	SC PPM	TI %	V PPM	CR PPM	MN PPM	FE %	CO PPM	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	W PPM	PB PPM	BI PPM
Lac McVittie	LM94-5	DXR5000	core/pulp	30-36.0	6.0	2,ser	70	1.1	0.59	1.27	7.73	0.09	3.71	4.46	17	0.33	160	158	769	4.61	13	16	61.4	25	-3	105	9.9	95.3	13	1.1	-5	410	12.4	-10	-2	48
Lac McVittie	LM94-5	DXR5001	core/pulp	41.0	5.0	2hem	70	0.8	2.1	1.06	7.57	0.07	2.87	3.96	16	0.43	161	175	697	4.07	14	12	12.5	19.4	-3	121	8.2	87.2	8	-0.1	-5	284	11.1	-10	-2	9
Lac McVittie	LM94-5	DXR5002	core/pulp	46.0	5.0	2hem	70	0.9	1.3	1	7.22	0.07	2.77	4.06	15.6	0.38	149	133	757	4.61	15	14	65.3	16.5	-3	114	9.5	85.9	14	0.6	-5	345	10.5	-10	-2	7
Lac McVittie	LM94-5	DXR5003	core/pulp	48.4	2.4	2hem	35	0.9	1.65	1.18	7.49	0.07	2.66	4.23	18	0.37	160	86	799	4.5	12	14	29	19.6	-3	125	8.6	81.6	4	-0.1	-5	367	9.1	-10	-2	-3
Lac McVittie	LM94-5	DXR5005	core/pulp	52.2	3.8	2hem	70	1.2	2.76	1.83	7.49	0.13	1.62	4.53	18.3	0.38	169	81	823	5.13	14	19	125	35.2	-3	202	11.2	105	12	-0.1	-5	353	21.5	-10	-2	14
Lac McVittie	LM94-5	DXR5006	core/pulp	56.0	3.8	2ser	35	1.4	1.98	2.56	6.36	0.17	1.62	4.9	18.4	0.32	167	89	982	4.75	17	27	7.4	30.8	-3	200	12.6	109	9	-0.1	-5	346	31.9	-10	-2	8
Lac McVittie	LM94-5	DXR5007	core/pulp	61.3	5.3	2ser	35	1	0.52	1.68	5.93	0.08	2.3	4.73	12.9	0.3	137	228	748	4.35	15	17	12.3	27.5	-3	96.6	8.7	76.3	76	-0.1	-5	389	12.9	-10	-2	6
Lac McVittie	LM94-5	DXR5008	core/pulp	66.0	4.7	2hem	35	0.8	2.44	0.86	7.36	0.07	1.89	3.73	15.4	0.35	139	77	509	4.12	15	10	65.6	23.5	-3	148	9	90	6	-0.1	-5	378	10.7	-10	-2	3
Lac McVittie	LM94-5	DXR5009	core/pulp	70.1	4.1	2hem	70	1.1	2.86	0.85	7.69	0.07	2.09	3.68	18	0.39	160	129	460	3.97	12	12	41.2	18.7	-3	146	7.7	83	7	0.4	-5	504	11.6	-10	-2	11
Lac McVittie	LM94-5	DXR5010	core/pulp	73.7	3.6	2	35	1.4	3.06	2.58	6.61	0.18	0.36	4.41	18.6	0.3	170	78	669	5.37	25	28	3.7	44.4	-3	265	12.3	112	6	-0.1	-5	155	28.4	-10	-2	4
Lac McVittie	LM94-5	DXR5011	core/pulp	77.6	3.9	2	35	1.6	3.16	2.52	6.5	0.17	0.26	4.59	18.2	0.29	166	60	655	4.91	22	28	3.6	39.6	-3	279	12.2	109	3	0.3	-5	165	26.7	-10	-2	7
Lac McVittie	LM94-5	DXR5012	core/pulp	83.1	5.5	2hem	35	1	3.35	0.79	7	0.07	1.58	3.32	15.7	0.38	153	191	400	3.63	10	14	8.7	20.5	-3	172	10.1	72.2	-1	0.7	-5	441	10.7	-10	-2	7
Lac McVittie	LM94-5	DXR5013	core/pulp	123.8	40.7	2	35	0.9	2.24	1.67	7.62	0.08	1.68	3.7	14.6	0.4	136	122	510	4.1	16	32	139	26.7	-3	134	12.8	108	27	-0.1	-5	246	10.3	-10	-2	4
Lac McVittie	LM94-5	DXR5015	core/pulp	131.3	7.5	2hem	35	0.9	3.01	1.61	7.69	0.09	1.27	3.05	15.9	0.46	154	189	406	3.85	16	34	130	23.2	-3	193	14.4	116	2	-0.1	-5	196	12.6	-10	-2	4
Lac McVittie	LM94-5	DXR5016	core/pulp	135.2	3.9	2hem	35	0.9	3.26	2.05	8.01	0.1	0.81	3.15	16.8	0.51	162	227	462	4.8	21	37	35	32.6	-3	214	16.3	124	6	-0.1	-5	130	15.2	-10	-2	7
Lac McVittie	LM94-5	DXR5017	core/pulp	139.7	4.5	2	35	0.7	2.89	1.88	7.34	0.09	0.91	3.07	15.6	0.44	148	251	455	4.42	21	33	117	27.7	-3	167	14.2	115	2	-0.1	-5	123	13.4	-10	-2	13
Lac McVittie	LM94-5	DXR5018	core/pulp	155.0	15.3	2	70	0.8	1.99	2.12	7.45	0.09	1.57	3.45	15.8	0.34	147	163	578	4.43	18	30	62.3	34.5	-3	167	11	115	-1	-0.1	-5	272	12.9	-10	-2	-3
Lac McVittie	LM94-5	DXR5019	core/pulp	161.0	6.0	2ser	35	0.9	1.31	1.88	7.03	0.08	2.22	3.74	14.6	0.33	126	176	648	3.89	17	34	40.2	24.4	-3	152	9.5	110	1	-0.1	-5	328	13.5	-10	-2	-3
Lac McVittie	LM94-5	DXR5020	core/pulp	166.0	5.0	2ser	70	0.9	1.06	1.63	6.89	0.07	2.65	3.92	11.8	0.36	112	173	599	3.87	24	42	21.5	19.8	-3	160	9.3	120	4	-0.1	-5	388	14.9	-10	-2	10
Lac McVittie	LM94-5	DXR5021	core/pulp	171.0	5.0	2ser	35	0.9	1.03	1.56	6.35	0.06	2.43	3.09	10.9	0.28	97	117	582	3.38	15	33	6.5	17	-3	135	8.6	105	5	-0.1	-5	335	12.9	-10	-2	7
Lac McVittie	LM94-5	DXR5022	core/pulp	175.5	4.5	2ser	35	1	0.95	1.62	7.8	0.07	3.08	3.76	12.8	0.34	121	162	628	3.64	14	33	5.4	19.7	-3	174	11.5	134	6	-0.1	-5	392	15.5	-10	-2	5
Lac McVittie	LM94-5	DXR5023	core/pulp	177.5	2.0	qtz vein	35	2.2	0.68	1.24	7.13	0.06	2.02	4.02	10.4	0.3	140	350	521	3.56	17	37	41	30.1	-3	284	9.4	99.1	11	-0.1	8	259	15.7	-10	-2	5
Lac McVittie	LM94-5	DXR5024	core/pulp	182.6	5.1	2	35	0.8	1.36	1.71	7.5	0.08	2.3	3.9	15.7	0.39	133	170	565	4.21	15	32	37.7	25.7	-3	170	12.2	124	2	-0.1	-5	358	15.7	-10	-2	18
Lac McVittie	LM94-5	DXR5025	core/pulp	210.9	28.3	2	35	0.8	2.64	1.65	7.8	0.09	0.96	4.41	16	0.43	159	305	622	4.76	17	27	11.2	30.7	-3	379	14.6	121	2	-0.1	6	141	13.6	-10	-2	12
Lac McVittie	LM94-5	DXR5026	core/pulp	215.7	4.8	2ser	35	0.9	1.77	1.75	7.36	0.09	1.78	4.33	17.1	0.38	151	181	647	5.37	34	38	110	32.8	-3	151	10.1	108	22	0.2	-5	239	14.9	-10	-2	8
Lac McVittie	LM94-5	DXR5027	core/pulp	220.3	4.6	2ser	35	1	1.2	1.61	7.43	0.1	2.9	3.98	17.8	0.44	154	127	601	4.61	23	39	89.3	28.7	-3	118	11.1	120	1	-0.1	-5	400	16.5	-10	-2	5
Lac McVittie	LM94-5	DXR5028	core/pulp	224.7	4.4	2ser	35	0.9	1.33	1.57	7.5	0.09	2.46	3.73	15.6	0.4	147	201	576	6.11	28	38	110	27.9	-3	128	11.3	121	7	-0.1	-5	336	18.1	-10	-2	8
Lac McVittie	LM94-5	DXR5029	core/pulp	229.2	4.5	2hem	70	0.9	1.66	1.68	7.28	0.09	1.91	3.93	14.7	0.35	140	217	612	6.52	29	38	119	30.1	-3	146	9.6	114	7	-0.1	-5	274	13.6	-10	-2	11
Lac McVittie	LM94-5	DXR5030	core/pulp	234.0	4.8	2	35	0.7	1.43	1.56	6.38	0.07	1.58	4.8	17.4	0.33	131	148	724	4.51	21	30	122	29	-3	201	11.1	96.7	3	-0.1	-5	253	11.9	-10	-2	7
Lac McVittie	LM94-5	DXR5031	core/pulp	238.7	4.7	2	35	0.9	2.09	1.73	7.87	0.09	2.39	2.95	15.4	0.41	154	148	497	3.96	18	34	57.5	31.5	-3	132	11.2	127	3	0.5	-5	453	20.5	-10	-2	-3
Lac McVittie	LM94-5	DXR5032	core/pulp	242.7	4.0	2	35	0.9	1.92	1.59	7.64	0.08	2.25	3.58	14.8	0.41	145	124	550	3.78	15	39	12.1	30.5	-3	131	10.6	108	3	0.5	-5	439	16.3	-10	-2	-3
Lac McVittie	LM94-5	DXR5034	core/pulp	246.0	3.3	2hem	70	0.9	2.79	1.39	7.1	0.09	1.23	3.11	17.6	0.43	142	162	518	4.85	22	53	474	32.2	-3	140	14.5	117	33	-0.1	-5	335	16.9	-10	-2	-3
Lac McVittie	LM94-5	DXR5035	core/pulp	251.0	5.0	2hem	70	1	3.2	1.05	7.53	0.1	1.62	3.18	16.2	0.51	157	328	476	5.09	27	55	535	29	-3	159	17.1	127	7	1	-5	557	19.6	-10	-2	-3
Lac McVittie	LM94-5	DXR5036	core/pulp	256.0	5.0	2hem	35	1	3.32	1.41	7.66	0.15	0.99	3.31	18.6	0.71	170	283	567	5.38	29	68	242	36.7	-3	268	18.9	153	9	1.6	-5	369	24.7	-10	-2	7
Lac McVittie	LM94-5	DXR5037	core/pulp	261.0	5.0	2epi	35	1.1	2.72	1.67	7.12	0.17	1.2	3.42	16.6	0.7	173	343	652	5.48	29	77	123	39.9	-3	308	19.1	152	4	1	-5	411	31.2	-10	-2	8
Lac McVittie	LM94-5	DXR5038	core/pulp	266.0	5.0	2epi	70	1	3.21	1.51	6.87	0.16	0.87	3.95	17.3	0.67	158	237	725	4.81	21	65	27.5	37.1	-3	266	18.1	136	6	0.7	-5	273	27.6	-10	-2	8
Lac McVittie	LM94-5	DXR5039	core/pulp	311.0	45.0	2lap,ser	70	1	1.99	1.77	7.27	0.12	1.24	5.12	16.6	0.62	160	120	1230	6.83	30	55	91.6	44.2	-3	243	18.2	127	3	1.2	-5	296	20.1	-10	-2	-3
Lac McVittie	LM94-5	DXR5040	core/pulp	316.0	5.0	8s,hem	35	1	1.86	1.66	7.01	0.13	1.96	4.37	19.4	0.57	170	134	964	5.69	38	66	119	39.8	-3	236	16.8	128	1	0.8	-5	320	23.5	-10	-2	4
Lac McVittie	LM94-5	DXR5041	core/pulp	321.3	5.3	8s,hem	70	1.1	1.74	1.76	7.32	0.13	2.46	4.14	20.7	0.54	185	122	820	5.76	29	60	257	37.2	-3	192	13.3	127	7	0.9	-5	363	22	-10	-2	9
Lac McVittie	LM94-5	DXR5042	core/pulp	324.9	3.6	8s,ser	70	1.1	1.51	1.87	5.82	0.11	2.32	4.08	17.2	0.43	153	197	819	4.8	25	44	249	21.9	-3	211	13.8	106	52	1	-5	324	19.4	14	-2	4
Lac McVittie	LM94-5	DXR5043	core/pulp	328.7	3.8	8s,ser	70	1.2	1.53	2.12	5.49	0.13	1.69	4.1	16.9	0.2	142	195	727	4.1	28	32	223	30.7	-3	248	8.8	85.5	45	-0.1	-5	325	21.7	-10	-2	-3
Lac McVittie	LM94-5	DXR5044	core/pulp	385.2	56.5	8s,hem	35	2	2.31	2.82	6.69	0.17	1.94	4.81	20.6	0.34	182	116	776	5.14	25	33	48	47.9	-3	526	13.2	101	18	0.5	-5	953	26.9	-10	-2	8
Lac McVittie	LM94-5	DXR5045	core/pulp	431.0	45.8	2agg,hem	35	1	2.96	1.75	6.45	0.12	0.99	3.49	18.6	0.64	172	275	701	5.5	28	85	49.1	28.8	-3	284	16.2	106	6	0.3	-5	172	22.2	-10	-2	13
Lac McVittie	LM94-5	DXR5046	core/pulp	436.0	5.0	2agg,ser	70	1.1	1.31	1.72	6.49	0.14	2.15	4.68	17	0.45	162	124	695	4.43	22	39	109	20.8	-3	190	14.5	116	5	0.8	-5	190	23.2	-10	-2	-3
Lac McVittie	LM94-5	DXR5047	core/pulp	486.0	50.0	2agg,hem	70	0.9	2.8	1.82	6.62	0.16	1.09	3.95	15.7	0.64	175	166	769	5.33	22	37	38.8	32.4	-3	318	16.2	126	3	0.3	-5	209	27.9	-10	-2	12
Lac McVittie	LM94-5	DXR5115	core/pulp	491.0	5.0	2agg,hem	35	1	2.95	1.84	8.36	0.2	1.19	4.36	20.8	0.75	196	315	624	4.98	18	32	53.3	30	-3	617	20.4	153	3	1.8	5	276	31.1	-10	-2	-3
Lac McVittie	LM94-5	DXR5116	core/pulp	496.0	5.0	2agg,hem	35	1	2.93	2.04	8.12	0.19	1	3.95	21	0.73	204	279	660	5.54	24	35	52.1	31.4	-3	586	19.9	133	4	0.6	-5	230	32.8	-10	-2	13
Lac McVittie	LM94-5	DXR5117	core/pulp	501.0	5.0	2agg,hem	35	0.9	3.62	1.76	7.51	0.19	0.79	4.8	19.6	0.71	188	197	664	4.69	18	33	48.3	28.2	-3	485	19.3	137	6	0.4	-5	217	27.9	-10	-2	-3
Lac McVittie	LM94-5	DXR5118	core/pulp	506.0	5.0	2agg,epi	35	1	3.28	1.97	8.22	0.19	1.14	4.4	21.9	0.77	196	187	668	5.1	18	37	116	31.9	-3	371	19.9	137	5	0.4	5	269	30.1	-10	-2	4
Lac McVittie	LM94-5	DXR5119	core/pulp	511.0	5.0	2agg,hem	35	1	3.06	2.43	7.23	0.18	0.96	4.96	20.2	0.66	179	90	849	5.53	21	36	149	38.9	-3	236	17.1	123	2	-0.1	-5	219	25.7	-10	-2	10
Lac McVittie	LM94-5	DXR5120	core/pulp	516.0	5.0	2agg,hem	35	1.1	2.67	2.81	7.41	0.19	1.04	5.76	21.7	0.67	195	175	998	6.57	32	38	125	47.9	-3	259	18.2	125	4	1.2	-5	262	29.5	-10	-2	3
Lac McVittie	LM94-5	DXR5121	core/pulp	520.8	4.8	2agg,hem	70	1	2.18	2.47	7.31	0.17	1.49	5.24	19.6	0.64	182	148	962	6.55	23	39	68.1	45.5	-3	257	17.1	120	-1	-0.1	-5	845	22.3	-10	-2	7
Lac McVittie	LM94-5	DXR5122	core/pulp	524.9	4.1	7l	170	1.4	1.82	2.61	7.22	0.14	2.21	5.18	17.9	0.3	169	84	830	4.8	26	23	58.7	47.8	-3	204	8.1	85.2	2	-0.1	6	444	20.4	-10	-2	9
Lac McVittie	LM94-5	DXR5123	core/pulp	531.0	6.1	8s,hem	35	1.8	2.79	2.08	7.01	0.16	1.76	4.4	12.8	0.24	135	121	820	4.04	20	18	49	620	-3	279	9.9	107	2	-0.1	9	2430	31.8	-10	-2	-3
Lac McVittie	LM94-5	DXR5124	core/pulp	536.0	5.0	8s,hem	35	2	2.35	2.35	7.49	0.18	2.74	4.19	13.4	0.27	151	63	782	4.3	22	14	156	33.2	-3	254	10	109	3	0.9	-5	1160	29.6	-10	-2	7
Lac McVittie	LM94-5	DXR5125	core/pulp	541.0	5.0	8s,hem	35	1.5	1.94	2.1	6.68	0.16	2.56	4.16	12	0.21	133	70	680	3.82	19	14	100	29.3	-3	302	9	95.7	2	-0.1	7	877	24.6	-10	-2	5
Lac McVittie	LM94-5	DXR5050	core/pulp	542.9	1.9	qtz vein	35	1.8	1.12	2.04	6.21	0.16	2.99	4.78	11.2	0.22	147	194	713	3.67	18	17	9.5	25.5	-3	220	8.5	96	2	0.9	-5	1050	26.5	-10	-2	6
Lac McVittie	LM94-5	DXR5051	core/pulp	546.0	3.1	qtz vein	35	0.6	0.14	0.55	1.3	0.05	0.4	1.07	3.4	0.08	69	386	237	1.34	11	30	34.6	10.4	-3	106	2.6	27	10	1	-5	432	6.3	-10	-2	-3
Lac McVittie	LM94-5	DXR5052	core/pulp	549.6	3.6	qtz vein	35	0.5	0.13	1.41	1.18	0.06	0.3	3.53	5.1	0.04	69	461	681	2.28	14	31	19.7	19.8	-3	210	5.5	23.3	9	-0.1	-5	598	10.4	-10	-2	3
Lac McVittie	LM94-5	DXR5053	core/pulp	554.0	4.4	qtz vein	35	2.1	0.42	2.61	6.9	0.2	3.63	5.88	13.8	0.29	167	302	1100	4.59	32	30	13.2	32.7	-3	278	9.9	134	3	-0.1	-5	593	34.8	-10	-2	4
Lac McVittie	LM94-5	DXR5054	core/pulp	574.0	20.0	8s,hem	35	1.7	2.22	2.93	6.98	0.18	2.28	5.04	17.9	0.35	164	131	859	4.59	23	53	74.7	49.3	-3	366	12.4	116	2	-0.1	-5	1090	33.6	-10	-2	-3
Lac McVittie	LM94-5	DXR5055	core/pulp	591.0	17.0	2agg,epi	35	1.3	3.43	2.64	7.78	0.18	1.07	4.62	20.8	0.68	192	136	954	6.8	22	44	96.3	48.5	-3	637	19.8	149	5	0.3	-5	355	28.6	-10	-2	14
Lac McVittie	LM94-5	DXR5056	core/pulp	634.4	43.4	8s,hem	35	1.7	2.67	3.16	7.18	0.2	2.23	4.98	21.6	0.5	207	270	887	5.57	25	35	75.2	54.7	-3	734	14.8	112	2	0.5	-5	948	31	-10	7	7
Lac McVittie	LM94-5	DXR5057	core/pulp	644.8	10.4	2agg	35	1.1	3.08	2.49	7.31	0.2	1.4	5.36	18.3	0.55	186	118	851	5.03	23	32	66.9	46.1	-3	387	16.4	123	-1	1.5	-5	483	42.4	-10	-2	-3
Lac McVittie	LM94-5	DXR5059	core/pulp	651.7	6.9	2agg	35	1.1	1.97	1.97	6.97	0.17	1.86	5.22	18.7	0.54	168	195	805	5	21	36	69.9	36.3	-3	363	15.5	126	2	-0.1	-5	242	27.7	-10	-2	7
Lac McVittie	LM94-5	DXR5060	core/pulp	656.0	4.3	2agg,ser	35	1	2.71	2.01	6.91	0.16	1.17	4.62	17.3	0.43	162	63	627	5.91	22	37	19.8	35.6	-3	285	14.9	119	-1	1.1	-5	153	28.5	-10	-2	10
Lac McVittie	LM94-5	DXR5061	core/pulp	657.5	1.5	2agg,ser	35	1	1.94	1.94	7.67	0.19	2.41	4.23	19.6	0.49	183	166	705	4.42	20	28	4.5	36.4	-3	302	14.9	130	-1	27.6	-5	309	28.5	-10	-2	10
Lac McVittie	LM94-5	DXR5062	core/pulp	662.2	4.7	2agg,ser	35	1.1	2.07	1.66	7.12	0.16	1.49	5.5	16.8	0.48	160	141	755	4.89	25	33	57.3	29	-3	540	14.5	115	3	0.2	-5	189	28.1	-10	-2	7
Lac McVittie	LM94-5	DXR5063	core/pulp	666.0	3.8	2agg	35	0.8	3.61	1.81	7.29	0.18	0.86	4.9	17.2	0.51	165	68	792	5.29	19	32	28.1	34.2	-3	312	17.5	131	2	1	-5	143	26.5	-10	-2	4
Lac McVittie	LM94-5	DXR5064	core/pulp	696.0	30.0	2agg	35	0.6	1.75	1.11	4.07	0.09	0.69	2.22	11.3	0.38	103	98	447	2.56	11	20	25	24.5	-3	226	9.5	73.7	-1	-0.1	-5	171	20.8	-10	-2	6
Lac McVittie	LM94-5	DXR5065	core/pulp	746.0	50.0	2agg	35	1.5	2.5	3.01	7.13	0.17	1.26	7.03	22	0.59	206	254	1280	8.37	34	49	130	60.3	-3	584	17	109	5	0.8	-5	465	26.5	20	-2	3
Lac McVittie	LM94-5	DXR5066	core/pulp	795.3	49.3	2agg	35	0.8	2.41	2.22	7.31	0.15	1.12	5.75	19.9	0.64	193	211	1070	6.11	27	44	420	43.1	-3	558	18.5	125	4	0.6	-5	360	26.2	-10	-2	7
Lac McVittie	LM94-5	DXR5068	core/pulp	866.0	70.7	2agg	35	0.9	2.45	2.32	7.62	0.14	1.04	4.84	22.8	0.74	226	300	1110	6.28	27	41	16.5	50.6	-3	552	19.8	127	5	1.3	-5	299	24.7	-10	-2	7
Lac McVittie	LM94-5	DXR5069	core/pulp	871.0	5.0	2agg	35	0.8	2.61	2.27	7.53	0.14	1.04	4.58	24.4	0.76	220	233	918	5.81	24	33	15.1	58.5	-3	530	19.4	122	5	0.7	-5	326	24.2	-10	-2	11
Lac McVittie	LM94-5	DXR5070	core/pulp	876.0	5.0	2agg	35	1.1	2.96	2.51	8.36	0.15	1.13	4.75	24.1	0.82	246	335	1080	6.27	29	37	5.8	53	-3	581	20.3	138	4	1.3	-5	302	26.8	-10	-2	9
Lac McVittie	LM94-5	DXR5071	core/pulp	880.2	4.2	2agg	35	1.7	2.64	2.1	7.74	0.13	1.02	4.66	19.2	0.72	218	457	1760	5.48	28	33	2.9	56.7	8	480	17.3	122	2	-0.1	-5	294	24.7	-10	-2	11
Lac McVittie	LM94-5	DXR5072	core/pulp	882.6	2.4	2agg,ser	445	0.7	1.53	2.39	6.43	0.12	0.26	8.35	26.9	0.67	201	270	1290	10.4	27	41	769	49.5	-3	1050	21.9	111	2	2	8	62	23.2	-10	-2	-3
Lac McVittie	LM94-5	DXR5073	core/pulp	886.0	3.4	2agg	35	0.8	3.42	2.56	7.69	0.14	0.48	5.1	25.7	0.77	215	167	1210	6.9	25	42	57.3	62.8	-3	442	20.6	126	2	1.1	-5	124	26.4	-10	-2	-3
Lac McVittie	LM94-5	DXR5074	core/pulp	891.0	5.0	2agg	35	0.9	2.85	2.63	7.7	0.14	0.83	4.87	25.8	0.75	224	250	1420	6.75	26	41	2.8	64.3	-3	470	19.6	128	-1	0.6	-5	251	27.6	-10	-2	17
Lac McVittie	LM94-5	DXR5075	core/pulp	896.0	5.0	2agg	1230	1	2.87	2.51	7.47	0.14	1.08	4.09	24.2	0.78	229	231	1140	5.85	24	36	5.7	58.9	-3	476	18.8	106	2	-0.1	-5	312	26.4	-10	-2	8
Lac McVittie	LM94-5	DXR5076	core/pulp	925.3	29.3	2agg	35	0.7	2.99	2.64	8.11	0.15	0.93	4.52	26.4	0.74	228	232	947	6.59	26	39	8.1	60.4	-3	442	19	133	2	1.3	-5	194	23.6	-10	-2	8
Lac McVittie	LM94-5	DXR5077	core/pulp	930.0	4.7	2,ser	35	1.1	0.82	1.28	8.07	0.14	3.62	5.62	20.6	0.6	209	106	660	3.73	16	28	62.3	27.1	-3	142	14.8	130	-1	0.8	-5	476	25.4	-10	-2	8

Project	Hole No.	SAMPLE UNITS	Sample Type	Distance (Ft)	Length (Ft)	GEOLOGY	Au (ppb)	BE PPM	NA %	MG %	AL %	P %	K %	CA %	SC PPM	TI %	V PPM	CR PPM	MN PPM	FE %	CO PPM	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	W PPM	PB PPM	BI PPM
Lac McVittie	LM94-5	DXR5078	core/pulp	934.3	4.3	4t,ser	35	1.1	0.58	1.19	8.03	0.14	3.92	5.83	17.4	0.41	189	85	520	3.47	16	21	16.3	23.9	-3	121	15.2	124	-1	0.4	-5	450	22.8	-10	-2	8
Lac McVittie	LM94-5	DXR5079	core/pulp	937.6	3.3	4t,ser	35	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17	-17
Lac McVittie	LM94-5	DXR5080	core/pulp	941.3	3.7	2agg,ser	35	0.8	0.55	1.87	7.51	0.14	2.67	6.33	23.8	0.5	200	101	795	6.05	22	30	9.2	44	-3	155	13.6	126	-1	0.4	-5	275	25.4	-10	-2	7
Lac McVittie	LM94-5	DXR5081	core/pulp	943.6	2.3	2? ser	35	0.5	2.22	1.38	6.04	0.1	1.72	6.39	17.7	0.36	126	311	1090	3.98	16	24	2.7	23.8	-3	290	9.7	80	2	0.5	-5	190	18.4	-10	-2	4
Lac McVittie	LM94-5	DXR5082	core/pulp	948.3	4.7	2ser	35	0.6	2.55	1.75	6.69	0.09	1.92	6.92	18.2	0.31	135	79	1220	4.58	18	22	8.8	33.7	-3	349	11.9	93.9	-1	0.8	-5	209	21.5	-10	-2	9
Lac McVittie	LM94-5	DXR5083	core/pulp	952.8	4.5	2ser	105	0.8	1.74	2.23	6.73	0.13	2.31	6.88	23.3	0.35	182	73	1200	5.48	20	30	4.4	36.1	-3	349	12.5	101	1	0.9	-5	270	23.1	-10	-2	4
Lac McVittie	LM94-5	DXR5084	core/pulp	955.1	2.3	2ser	105	1	2.45	1.66	8.33	0.15	3.04	5.46	22	0.35	191	145	1010	4.27	15	25	7.7	35.2	-3	324	11.8	125	1	0.3	5	363	18.6	-10	-2	5
Lac McVittie	LM94-5	DXR5085	core/pulp	957.5	2.4	qtz vein	35	-0.5	0.38	2.81	1.02	0.06	0.17	10.6	12.7	0.03	59	691	2230	6.47	26	31	7.3	44.7	16	661	11	9.2	3	-0.1	9	23	3.9	-10	31	6
Lac McVittie	LM94-5	DXR5086	core/pulp	961.0	3.5	qtz vein	35	0.8	1.2	1.85	4.53	0.08	1.08	6.31	13.1	0.11	192	855	1210	4.67	23	37	5.9	31.3	-3	601	8.8	32.4	4	1.8	6	130	5.4	-10	-2	-3
Lac McVittie	LM94-5	DXR5087	core/pulp	962.7	1.7	2ser	35	1	1.7	1.86	7.58	0.16	2.85	5.5	20.8	0.44	218	188	1160	5.35	18	30	14.4	26.8	-3	311	12.5	125	-1	1.7	-5	348	24.3	-10	-2	-3
Lac McVittie	LM94-5	DXR5088	core/pulp	963.9	1.2	qtz vein	35	0.9	0.49	1.34	4.76	0.12	2.01	3.27	14	0.3	193	551	697	5.13	121	37	11.1	25	5	220	8.4	79.1	5	0.9	7	263	16.7	-10	-2	5
Lac McVittie	LM94-5	DXR5089	core/pulp	967.4	3.5	2ser	35	0.8	2.45	1.95	7.5	0.15	1.6	4.36	21.7	0.46	183	95	871	4.76	14	30	2.3	25.9	-3	278	12.3	118	-1	0.7	-5	281	24.5	-10	-2	-3
Lac McVittie	LM94-5	DXR5090	core/pulp	972.1	4.7	2ser	35	0.7	1.98	1.8	6.79	0.14	2.18	4.24	16.8	0.46	181	89	734	4.69	15	26	47.3	26.9	-3	224	11.8	106	-1	-0.1	-5	280	25.7	-10	-2	-3
Lac McVittie	LM94-5	DXR5091	core/pulp	976.7	4.6	2ser	35	0.9	0.34	2.18	6.5	0.13	2.9	7.07	18.7	0.4	186	121	1070	5.01	20	28	141	30.3	-3	150	14.2	98.4	3	0.3	-5	326	30.4	-10	-2	-3
Lac McVittie	LM94-5	DXR5092	core/pulp	981.0	4.3	2ser	35	1	0.53	2.02	7.61	0.16	3.3	6.43	23.4	0.47	245	352	1010	6.26	38	34	9.3	35.5	-3	249	15.3	123	3	-0.1	8	442	29.8	-10	-2	-3
Lac McVittie	LM94-5	DXR5093	core/pulp	1037.1	56.1	2agg	35	0.8	2.84	2.15	7.87	0.15	0.95	4.11	22.1	0.74	211	450	845	5.6	22	41	41.7	49.6	-3	464	18.1	118	2	10.8	8	195	25.4	-10	46	9
Lac McVittie	LM94-5	DXR5095	core/pulp	1056.0	18.9	2agg	35	0.7	3.83	2.13	7.87	0.16	0.89	4.27	21.6	0.77	212	193	868	5.09	18	35	4.8	44.1	12	386	18.6	121	3	0.5	-5	216	25.7	-10	-2	12
Lac McVittie	LM94-5	DXR5096	core/pulp	1061.0	5.0	2agg	35	0.6	2.98	2.52	7.61	0.12	0.51	4.69	20.8	0.69	201	301	1070	6.77	22	51	8.8	60.4	-3	441	17.4	114	3	0.7	5	122	19.8	-10	-2	-3
Lac McVittie	LM94-5	DXR5097	core/pulp	1066.0	5.0	2agg	35	1.3	3.66	2.14	7.94	0.13	0.84	3.83	18.6	0.72	191	272	1470	4.52	18	34	5.6	53.5	4	269	17.1	122	-1	0.7	-5	197	20.9	-10	-2	6
Lac McVittie	LM94-5	DXR5098	core/pulp	1067.7	1.7	2agg	35	-0.5	3.65	2.73	8.04	0.12	0.74	4.17	21.3	0.73	191	218	935	5.9	22	38	9.9	52.1	-3	355	18.2	121	-1	1.2	-5	203	20.1	-10	-2	6
Lac McVittie	LM94-5	DXR5099	core/pulp	1071.0	3.3	2agg,ser	35	1	3	1.85	8.08	0.12	0.85	8.57	20.6	0.7	209	575	1060	5.37	19	53	717	32.1	4	747	17.4	120	4	0.3	8	161	20.1	-10	-2	-3
Lac McVittie	LM94-5	DXR5100	core/pulp	1076.0	5.0	2agg	70	1.1	3.35	2.4	7.82	0.12	0.49	4.69	22.4	0.7	197	417	1490	6.59	26	46	30	59.5	4	305	17.8	123	3	-0.1	-5	114	20	-10	-2	5
Lac McVittie	LM94-5	DXR5101	core/pulp	1081.0	5.0	2agg	205	0.7	2.62	2.52	7.35	0.11	0.61	4.68	20.1	0.66	190	341	1140	6.66	24	51	168	58.7	9	421	16.4	109	2	-0.1	-5	123	18.9	-10	-2	-3
Lac McVittie	LM94-5	DXR5102	core/pulp	1096.0	15.0	2agg	35	1.3	3.35	1.96	7.78	0.12	0.85	4.32	16.8	0.68	183	267	1080	4.47	16	35	6.1	44.9	-3	371	16	128	3	0.5	5	157	19.3	-10	-2	-3
Lac McVittie	LM94-5	DXR5103	core/pulp	1101.0	5.0	2agg	35	1.3	3.29	2.18	7.41	0.11	0.95	4.68	19	0.65	178	152	1110	5.2	20	37	6.9	50.2	-3	335	16.3	117	-1	1.3	-5	196	17.5	-10	-2	11
Lac McVittie	LM94-5	DXR5104	core/pulp	1121.3	20.3	2agg	35	1.2	3.17	2.04	8.1	0.12	1.06	4.61	21.9	0.71	204	230	895	5.16	18	40	3.7	47	-3	539	17	128	-1	1.2	-5	221	18.9	-10	-2	-3
Lac McVittie	LM94-5	DXR5105	core/pulp	1126.0	4.7	8d,cal	70	1	2.39	3.61	6.59	0.17	0.52	6.4	25.7	0.48	200	165	1200	6.3	26	57	15.8	90.8	-3	385	14.8	91	-1	0.3	5	213	27.6	-10	-2	6
Lac McVittie	LM94-5	DXR5106	core/pulp	1131.0	5.0	8d	35	1.2	2.08	2.82	6.15	0.19	0.87	6.06	21.8	0.56	181	115	1050	5.8	25	25	62.1	76.9	-3	185	26.2	140	-1	1.1	-5	184	40.2	-10	-2	-3
Lac McVittie	LM94-5	DXR5107	core/pulp	1136.0	5.0	8d	35	1.2	1.95	3.27	8.52	0.17	0.93	6.29	22.6	0.51	192	105	1230	5.79	25	35	4.1	85.4	-3	217	19	112	-1	0.6	-5	170	30.5	-10	-2	6
Lac McVittie	LM94-5	DXR5108	core/pulp	1141.0	5.0	8d	35	0.7	2.25	3.62	8.54	0.18	0.47	5.88	25.8	0.48	202	162	1220	6.4	30	48	4.8	88.5	-3	240	14.8	91.8	-1	-0.1	-5	186	24.2	-10	-2	7
Lac McVittie	LM94-5	DXR5109	core/pulp	1143.8	2.8	8d,qtz vein	70	0.8	1.25	2.64	5.04	0.14	0.65	7.34	24.1	0.4	179	375	992	5.62	41	53	18.5	74.1	-3	211	13.8	73.2	1	0.3	-5	249	14.9	-10	-2	5
Lac McVittie	LM94-5	DXR5110	core/pulp	1146.0	2.2	2agg,epi	70	0.8	2.46	1.85	7.87	0.12	0.48	5.49	22.3	0.69	210	337	888	6.71	61	94	18.4	50.3	19	819	19.5	126	2	0.7	-5	123	24	-10	-2	11
Lac McVittie	LM94-5	DXR5111	core/pulp	1151.0	5.0	2agg,epi	35	0.9	2.48	1.92	8.04	0.13	0.65	5.87	22.5	0.73	199	305	1120	7.87	42	108	141	84	19	814	20.2	133	-1	1.4	-5	159	24	-10	-2	7
Lac McVittie	LM94-5	DXR5112	core/pulp	1156.0	5.0	2agg,epi	70	0.8	2.22	1.72	7.48	0.15	0.78	5.51	22.8	0.73	201	378	1020	6.78	40	71	91.2	49	9	626	20.2	137	2	0.3	6	174	27.1	-10	-2	8
Lac McVittie	LM94-5	DXR5113	core/pulp	1206.0	50.0	2agg,epi	35	0.9	2.8	1.4	8.19	0.18	0.51	5.81	22.7	0.78	217	458	912	8.01	24	86	42.7	38.4	-3	795	21.8	158	2	0.6	8	164	32.1	-10	-2	5
Lac McVittie	LM94-5	DXR5114	core/pulp	1232.0	26.0	2agg,epi	35	1.4	3.39	1.73	7.98	0.15	0.72	5.51	17.3	0.65	186	247	1310	5.73	24	43	11.4	48.9	-3	516	19.2	136	2	0.5	-5	213	30.4	-10	-2	11

Project	Hole No.	SAMPLE UNITS	Sample Type	Distance (Ft)	Length (Ft)	GEOLOGY	Au (ppb)	BE PPM	NA %	MG %	AL %	P %	K %	CA %	SC PPM	TI %	V PPM	CR PPM	MN PPM	FE %	CO PPM	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	W PPM	PB PPM	BI PPM
Lac McVittie	LM94-6	DXR5127	core/pulp	23-25	2.0	qtz vein	70	2.1	0.28	3.29	6.15	0.02	3.57	7.9	16.3	0.12	179	163	2130	4.35	16	61	243	37.8	-3	183	5	21.4	20	3.3	10	1240	6.3	15	-2	-3
Lac McVittie	LM94-6	DXR5128	core/pulp	30.0	5.0	4l,ser	70	2.2	0.99	1.93	6.36	0.18	3.38	4.5	15.8	0.19	170	79	693	4.47	24	25	434	37.8	-3	261	8.8	92.4	13	2.1	13	855	29.6	15	-2	-3
Lac McVittie	LM94-6	DXR5129	core/pulp	36.0	6.0	4l,hem	35	2.2	1.5	1.71	6.79	0.19	3.87	4.1	16	0.17	175	208	676	4.1	21	37	429	36.3	-3	240	9.9	98.2	13	3.6	15	1000	31.9	26	-2	-3
Lac McVittie	LM94-6	DXR5130	core/pulp	41.0	5.0	4l,hem	35	1.7	0.61	1.51	6.54	0.19	2.72	4.15	15.5	0.17	165	153	725	3.89	24	28	374	33.8	-3	220	10.1	96.6	52	2.9	14	666	30.3	33	-2	-3
Lac McVittie	LM94-6	DXR5131	core/pulp	46.0	5.0	4l,hem	35	2	0.61	1.87	6.72	0.19	2.93	4.92	16.2	0.2	164	146	765	4.65	29	28	352	37.7	-3	238	9.6	100	9	1.8	14	476	30.7	18	-2	5
Lac McVittie	LM94-6	DXR5132	core/pulp	47.5	1.5	4l,hem	35	1.6	0.43	1.36	6.5	0.19	3.65	4.13	15.7	0.22	168	364	714	3.67	24	43	452	34.3	-3	134	9	97.9	19	2.3	19	739	27.4	44	9	-3
Lac McVittie	LM94-6	DXR5134	core/pulp	52.6	5.1	4l,hem	35	1.4	0.49	1.32	6.78	0.2	5.44	4.2	15.9	0.18	162	182	801	3.75	20	32	377	34.2	-3	151	9	100	12	2.3	14	920	28.2	38	-2	-3
Lac McVittie	LM94-6	DXR5135	core/pulp	56.0	3.4	8s,hem	35	2	1.35	2.1	6.64	0.19	4.53	4.51	15.5	0.26	160	106	733	4.8	25	26	803	37.5	-3	195	10.3	101	13	1.3	11	672	31.8	37	-2	-3
Lac McVittie	LM94-6	DXR5136	core/pulp	61.0	5.0	8s,hem	35	1.9	1.07	2.01	6.56	0.19	4.83	4.1	15.1	0.26	159	102	662	4.98	37	32	534	34.9	-3	184	9.9	97.7	8	1.2	16	1100	29.5	44	-2	-3
Lac McVittie	LM94-6	DXR5137	core/pulp	66.0	5.0	8s	35	1.7	1.38	1.79	6.16	0.18	4.59	4.38	15.2	0.24	155	122	690	4.73	29	27	424	35.4	-3	209	9.4	96.3	25	-0.1	9	1310	30.3	22	-2	-3
Lac McVittie	LM94-6	DXR5138	core/pulp	68.2	2.2	8s	35	1.9	1.47	2.29	6.21	0.16	3.5	4.69	16.4	0.21	158	81	727	5.2	24	41	543	33.4	-3	172	9.9	89.7	16	0.3	10	712	28.3	22	-2	-3
Lac McVittie	LM94-6	DXR5139	core/pulp	71.4	3.2	5c,ser	70	2.2	0.05	3.56	4.96	0.1	3.39	7.12	12.2	0.12	168	246	977	4.58	26	240	225	36.1	4	187	7.5	57.5	140	0.5	15	137	20.7	-10	3	8
Lac McVittie	LM94-6	DXR5140	core/pulp	72.4	1.0	1m,ser	70	1.4	0.24	4.23	3.9	0.11	2.45	9.17	9.3	0.08	130	171	1510	4.69	25	95	245	37.4	-3	172	6.6	48.1	24	1.2	13	89	21.5	-10	3	7
Lac McVittie	LM94-6	DXR5141	core/pulp	75.5	3.1	1,fu	105	1.5	0.05	6.28	3.12	0.01	1.55	9.16	5.8	0.04	125	454	1220	5.37	57	512	69.2	71.2	-3	244	2.5	10.6	467	1.9	17	54	2.4	-10	19	10
Lac McVittie	LM94-6	DXR5142	core/pulp	78.0	2.5	8s,hem	35	1.3	1.65	4.03	4.68	0.13	2.14	8.14	13.9	0.1	134	129	698	4.55	23	57	163	27.6	-3	215	8.8	68.1	7	0.3	9	81	19.7	-10	-2	8
Lac McVittie	LM94-6	DXR5143	core/pulp	83.4	5.4	1m	35	0.9	0.15	9.1	5.39	0.01	0.67	4.93	6.8	0.04	61	275	781	6.21	76	585	4.5	81.6	-3	248	2.4	10.3	-1	-0.1	10	56	1.8	-10	-2	3
Lac McVittie	LM94-6	DXR5144	core/pulp	86.0	2.6	1m	35	-0.5	0.09	10.7	5.95	0.01	0.13	3.71	7.9	0.03	58	339	861	6.99	85	715	2.8	88.2	-3	151	2	11.2	-1	-0.1	8	14	1.7	-10	-2	-3
Lac McVittie	LM94-6	DXR5146	core/pulp	89.0	3.0	1m	35	0.5	0.3	9.66	5.76	0.03	0.2	3.65	8.6	0.05	68	202	680	6.66	75	604	11.3	81.1	-3	405	2.4	17.8	-1	-0.1	8	266	3.8	-10	-2	4
Lac McVittie	LM94-6	DXR5147	core/pulp	93.6	4.6	8s,hem	35	1.2	2.94	3.27	7.4	0.13	2.48	3.97	16.6	0.2	175	89	695	4.4	19	36	21	24.7	-3	1240	8.9	64.6	9	-0.1	19	729	17.8	-10	-2	-3
Lac McVittie	LM94-6	DXR5148	core/pulp	96.8	3.2	1m	135	0.7	0.66	7.82	7.42	0.01	1.87	3.66	7.9	0.08	70	125	590	6.35	46	450	28.6	64	-3	108	2.8	16.1	9	-0.1	11	41	2.4	-10	-2	13
Lac McVittie	LM94-6	DXR5149	core/pulp	98.3	1.5	8s,hem	35	0.8	1.33	2.23	7.06	0.04	3.74	5.39	31.5	0.31	251	129	940	6.59	43	114	639	20.8	6	134	8.1	54.1	5	-0.1	9	110	5.9	-10	-2	-3
Lac McVittie	LM94-6	DXR5150	core/pulp	104.0	5.7	2agg,cal	35	0.8	0.81	2.36	7.69	0.04	3.22	4.89	36	0.48	281	139	605	6.62	53	91	143	40.6	4	96.5	8.1	57.3	5	-0.1	7	179	7	-10	-2	7
Lac McVittie	LM94-6	DXR5151	core/pulp	106.8	2.8	,2agg,qtz vein	35	0.5	0.96	1.55	5.04	0.03	1.44	12.1	20.6	0.39	186	171	779	4.57	32	68	1760	25.5	-3	138	11.3	46.7	9	-0.1	10	98	6	17	-2	-227
Lac McVittie	LM94-6	DXR5152	core/pulp	109.8	3.0	2agg,cal	35	-0.5	3.2	2.05	7.23	0.04	0.65	4.3	33.4	0.62	209	162	660	5.89	39	98	270	41.6	4	95.1	13.7	61.9	10	-0.1	9	50	5.5	-10	-2	5
Lac McVittie	LM94-6	DXR5153	core/pulp	113.4	3.6	2agg,cal	35	0.6	2.77	2.01	7.14	0.04	0.47	7.12	32.6	0.62	257	190	822	6.96	55	92	385	56.5	25	190	14.5	64.2	7	-0.1	-5	50	7.5	-10	-2	7
Lac McVittie	LM94-6	DXR5154	core/pulp	116.0	2.6	2agg	340	0.7	1.2	1.46	6	0.05	1.54	1.89	16.9	0.37	160	421	473	17.3	171	336	1270	42.4	705	52.8	11.8	76	12	0.5	18	161	10.4	-10	20	-227
Lac McVittie	LM94-6	DXR5155	core/pulp	117.5	1.5	2agg	35	1	4.06	1.02	9.17	0.12	2.06	3.75	9.9	0.5	94	88	301	3.62	25	123	56.4	22.6	-3	149	18.2	167	9	-0.1	8	229	19	42	-2	-3
Lac McVittie	LM94-6	DXR5156	core/pulp	120.7	3.2	2agg,ser	70	1	2.69	0.41	8.03	0.1	2.76	3.04	8.4	0.41	86	174	153	2.1	21	59	53.8	9.5	-3	105	14	148	14	-0.1	8	288	15	29	-2	-3
Lac McVittie	LM94-6	DXR5157	core/pulp	126.0	5.3	2agg,ser	35	1	2.66	0.5	8.37	0.1	2.78	3.23	9.7	0.5	114	223	187	3.41	33	64	159	8.6	-3	129	17	155	25	-0.1	9	390	16.2	21	-2	14
Lac McVittie	LM94-6	DXR5158	core/pulp	131.0	5.0	2agg,ser	35	0.9	2.26	0.47	7.63	0.1	2.98	3.26	13.1	0.44	105	222	192	2.41	17	44	93.3	8.4	-3	96.3	15.9	143	26	-0.1	8	412	17	-10	-2	-3
Lac McVittie	LM94-6	DXR5159	core/pulp	136.0	5.0	2agg,ser	70	1	2.75	0.45	8.11	0.1	2.85	3.1	8.6	0.41	99	122	179	2.09	20	59	128	9.4	-3	120	14.4	145	24	-0.1	8	422	13.9	10	-2	7
Lac McVittie	LM94-6	DXR5160	core/pulp	141.0	5.0	2agg,ser	35	0.9	2.98	0.77	7.76	0.1	2.2	2.63	7.4	0.41	87	161	179	1.96	9	31	39	14.6	-3	172	14	141	19	-0.1	5	276	16.1	20	-2	-3
Lac McVittie	LM94-6	DXR5161	core/pulp	146.0	5.0	2agg,ser	70	1	3.5	0.92	8.09	0.11	1.66	3.26	8.1	0.43	90	214	224	2.17	10	29	21.3	14.6	-3	259	15.5	140	146	-0.1	8	194	17.3	38	-2	6
Lac McVittie	LM94-6	DXR5162	core/pulp	151.0	5.0	2agg,ser	35	1	3.4	0.87	8.1	0.1	1.65	3.15	8.1	0.42	96	437	239	2.48	14	35	283	13.7	-3	297	15.3	148	74	-0.1	9	208	17.3	23	38	296
Lac McVittie	LM94-6	DXR5163	core/pulp	155.1	4.1	2agg,ser	35	1	3.39	0.61	7.77	0.1	1.47	2.98	7.6	0.41	86	259	247	2.24	11	25	18	14.7	-3	271	15	140	150	-0.1	9	185	14.6	21	-2	-3
Lac McVittie	LM94-6	DXR5165	core/pulp	161.0	5.9	2agg,ser	135	1	3.4	0.94	7.95	0.1	1.5	3.63	7.9	0.42	89	175	294	2.6	11	28	22.4	17	-3	262	14.7	143	70	-0.1	8	207	15.9	10	-2	5
Lac McVittie	LM94-6	DXR5166	core/pulp	166.0	5.0	2agg,ser	105	1.3	3.85	0.95	8.53	0.12	1.6	3.33	8.3	0.46	87	108	292	2.75	11	25	5.9	16.4	-3	239	16.6	155	59	-0.1	-5	218	17.1	-10	-2	10
Lac McVittie	LM94-6	DXR5167	core/pulp	171.0	5.0	2agg,ser	35	0.9	2.42	0.75	7.26	0.09	2.16	3.47	7.5	0.37	80	123	276	2.28	11	25	94.2	15	-3	130	12.7	133	38	-0.1	7	316	14.6	14	-2	-3
Lac McVittie	LM94-6	DXR5168	core/pulp	176.0	5.0	2agg,ser	70	1.1	2.37	1.08	8.24	0.11	2.66	5.23	8.4	0.37	86	98	385	3.26	12	30	44.9	17.1	-3	170	14.9	147	58	-0.1	7	380	17	-10	-2	5
Lac McVittie	LM94-6	DXR5169	core/pulp	181.1	5.1	2agg,ser	70	1.1	2.77	0.73	8.78	0.12	3.21	2.81	7	0.4	91	102	232	2.98	15	27	279	14.5	-3	133	11.9	154	131	-0.1	7	675	15.1	-10	-2	10
Lac McVittie	LM94-6	DXR5170	core/pulp	181.9	0.8	2agg,ser	35	0.7	4.45	0.24	8.66	0.11	2.11	2.63	5.1	0.37	84	126	175	1.75	13	19	113	6.2	7	163	12.2	155	8	-0.1	9	474	16	-10	-2	12
Lac McVittie	LM94-6	DXR5171	core/pulp	186.0	4.1	2agg,ser	70	0.8	3.99	0.25	8.31	0.11	2.21	2.68	5.3	0.32	94	160	204	2.15	18	19	235	6.5	-3	175	12.4	147	18	-0.1	11	449	17.3	-10	-2	10
Lac McVittie	LM94-6	DXR5172	core/pulp	191.0	5.0	2agg,hem	35	0.9	3.02	0.31	8.08	0.1	2.61	3.14	5.4	0.33	85	216	239	2.16	12	21	177	7.8	-3	160	12	138	13	-0.1	9	586	16.3	-10	-2	-3
Lac McVittie	LM94-6	DXR5173	core/pulp	196.0	5.0	2agg,ser	70	1	3.12	0.33	8.35	0.11	2.78	2.59	6.9	0.34	84	110	213	2.38	16	24	88.5	6.7	-3	160	11.2	148	5	-0.1	9	740	16.8	-10	-2	-3
Lac McVittie	LM94-6	DXR5174	core/pulp	198.4	2.4	2agg,hem	275	0.8	3.36	0.44	7.29	0.1	1.7	2.97	8.3	0.28	78	139	289	3.11	15	14	149	10.9	-3	206	11.9	130	5	-0.1	9	448	16.4	-10	-2	-3
Lac McVittie	LM94-6	DXR5175	core/pulp	200.2	1.8	2agg	70	0.9	2.13	1.05	7.47	0.1	1.8	4.69	11.2	0.34	84	132	438	4.94	26	19	143	23	-3	212	12.5	138	4	-0.1	7	304	17.4	-10	-2	-3
Lac McVittie	LM94-6	DXR5176	core/pulp	201.6	1.4	2agg,ser	70	1.3	0.26	1.28	7.74	0.1	3.53	4.61	9.7	0.37	81	99	568	4.17	25	19	368	15.5	-3	118	13.6	144	8	0.3	11	523	18.7	-10	-2	-3
Lac McVittie	LM94-6	DXR5177	core/pulp	206.0	4.4	2agg,ser	70	1.1	0.58	1.15	7.48	0.1	3.4	3.77	7.3	0.31	99	138	455	3.18	13	21	137	13	-3	120	9.7	132	21	-0.1	14	522	17.3	-10	-2	15
Lac McVittie	LM94-6	DXR5178	core/pulp	211.0	5.0	2agg,ser	240	1	0.49	0.6	8.06	0.11	3.77	2.99	8.3	0.33	87	177	294	3.77	20	24	251	10.3	3	124	11.8	144	19	-0.1	13	526	16	-10	-2	-3
Lac McVittie	LM94-6	DXR5179	core/pulp	216.0	5.0	2agg,ser	35	1.1	0.73	1.1	7.92	0.1	3.68	4.18	8.2	0.37	75	121	501	3.32	10	23	43	15	-3	145	12.7	144	5	-0.1	11	436	16.7	10	-2	-3
Lac McVittie	LM94-6	DXR5180	core/pulp	221.6	5.6	2agg,ser	170	1.3	0.78	1.2	8.09	0.1	3.6	4.17	9	0.3	89	139	451	3.18	9	17	87.7	18	-3	136	12.7	146	8	-0.1	15	343	16.6	-10	-2	-3
Lac McVittie	LM94-6	DXR5181	core/pulp	224.0	2.4	2agg,ser	410	1.1	1.22	0.94	7.43	0.1	2.75	4.06	8.3	0.37	78	88	349	2.82	7	16	33	14.1	-3	170	12.4	137	6	-0.1	11	260	15.2	10	-2	5
Lac McVittie	LM94-6	DXR5182	core/pulp	250.5	26.5	2agg	135	1	3.64	1.29	8.42	0.11	1.74	3.23	9.5	0.43	92	212	316	3.5	8	26	8.1	18.7	-3	257	13.5	156	5	-0.1	6	204	23.4	-10	-2	16
Lac McVittie	LM94-6	DXR5183	core/pulp	254.5	4.0	2agg	35	1	2.43	1.37	7.7	0.1	1.63	3.56	10.3	0.33	88	169	421	4.41	14	28	77.6	21.2	-3	235	11.6	134	4	-0.1	8	197	17.4	-10	-2	6
Lac McVittie	LM94-6	DXR5184	core/pulp	259.9	5.4	2agg,ser	70	1.1	0.27	1.07	7.57	0.1	3.02	5.3	9.8	0.36	82	121	474	3.24	6	23	14.1	21.7	-3	211	14.8	134	2	-0.1	6	271	17.6	-10	-2	-3
Lac McVittie	LM94-6	DXR5185	core/pulp	266.0	6.1	2agg	35	0.9	2.02	1.2	8.13	0.1	2.24	3.63	9.3	0.37	82	114	342	3.27	10	21	17.6	17.5	-3	177	13.7	149	4	-0.1	7	233	18.8	-10	-2	13
Lac McVittie	LM94-6	DXR5186	core/pulp	271.0	5.0	2agg	35	1	2.87	1.32	8.46	0.11	1.56	3.42	10.6	0.36	93	191	356	4.41	24	21	168	21.9	-3	249	12.3	151	9	-0.1	12	199	17	-10	-2	-3
Lac McVittie	LM94-6	DXR5188	core/pulp	296.0	25.0	2agg	105	1	2.66	1.22	8.09	0.1	1.61	3.71	8.8	0.35	85	171	326	3.84	10	16	44.1	21.2	-3	251	12.7	144	8	-0.1	-5	196	15.5	-10	-2	-3
Lac McVittie	LM94-6	DXR5189	core/pulp	301.0	5.0	2agg	35	1.1	2.39	1.06	8.36	0.11	2.07	3.69	8.9	0.34	85	138	333	3.73	8	16	82.6	18.1	-3	231	12.8	149	7	-0.1	7	290	16.5	-10	-2	-3
Lac McVittie	LM94-6	DXR5190	core/pulp	306.0	5.0	2agg,ser	70	1	1.89	1.13	7.77	0.1	1.96	4.16	9	0.34	82	83	448	4.24	12	13	111	21.7	-3	197	13.2	138	15	0.6	10	229	15.8	-10	-2	6
Lac McVittie	LM94-6	DXR5191	core/pulp	312.3	6.3	2agg	35	1	2.03	1.36	7.82	0.1	1.7	3.53	9	0.32	83	95	469	4.72	12	17	88	27.1	-3	199	12.7	142	5	-0.1	6	224	16.1	-10	-2	11
Lac McVittie	LM94-6	DXR5192	core/pulp	316.0	3.7	2agg,ser	35	0.9	2.58	1.01	7.48	0.1	1.65	4.19	8.1	0.31	83	125	459	4.49	17	19	185	23.2	-3	224	9.9	133	9	-0.1	8	218	16.3	-10	-2	-3
Lac McVittie	LM94-6	DXR5193	core/pulp	321.0	5.0	SER	35	1	2.44	1.01	7.67	0.11	2.14	3.92	8.1	0.35	89	198	425	4.36	21	22	151	20.4	5	214	10.6	141	6	-0.1	6	293	15.4	-10	-2	10
Lac McVittie	LM94-6	DXR5194	core/pulp	326.0	5.0	2agg	70	1.1	1.64	0.95	7.62	0.11	2.53	2.88	9.1	0.39	92	186	287	4.97	17	17	113	21	4	171	9.7	143	8	-0.1	14	323	17.8	-10	-2	8
Lac McVittie	LM94-6	DXR5195	core/pulp	331.0	5.0	SER	35	0.9	2.54	0.9	8.01	0.11	2.18	3.19	9	0.35	88	170	322	4.3	20	19	182	18	-3	329	10.3	136	14	-0.1	9	293	17.5	-10	-2	6
Lac McVittie	LM94-6	DXR5196	core/pulp	336.0	5.0	SER	35	1.1	2.02	1.08	7.28	0.1	2.34	3.5	8.4	0.38	86	94	428	4.3	13	16	90.4	20.4	-3	1390	10	136	11	-0.1	9	435	17	-10	-2	9
Lac McVittie	LM94-6	DXR5197	core/pulp	341.0	5.0	SER	70	1.3	1.64	0.98	7.81	0.11	2.73	3.38	9.6	0.3	98	270	408	4.64	25	21	128	21.4	-3	177	11	138	14	-0.1	9	340	16.1	-10	-2	12
Lac McVittie	LM94-6	DXR5198	core/pulp	346.0	5.0	HEM	135	0.8	4.14	0.81	7.3	0.09	0.76	3.74	10	0.27	86	154	395	5.47	25	18	240	15.5	-3	313	11.9	128	14	-0.1	-5	161	16.3	-10	-2	3
Lac McVittie	LM94-6	DXR5199	core/pulp	352.3	6.3	HEM	105	1.1	3.28	1.11	7.49	0.12	1.4	3.89	11.5	0.28	105	171	529	5.23	17	18	208	21.2	-3	236	14.7	148	13	-0.1	9	326	23	10	-2	3
Lac McVittie	LM94-6	DXR5200	core/pulp	356.0	3.7	2agg	105	1.1	2.89	1.17	8.23	0.11	1.92	3.19	9.8	0.28	88	109	478	4.98	9	20	76.6	26.2	-3	174	12.1	140	14	0.4	6	343	17	17	-2	8
Lac McVittie	LM94-6	DXR5201	core/pulp	361.0	5.0	2agg	105	1.1	2.28	1.26	7.34	0.1	1.94	2.83	9.1	0.33	84	161	467	5.09	10	18	111	28.1	-3	145	10.2	135	4	0.7	-5	323	16.7	-10	-2	7
Lac McVittie	LM94-6	DXR5202	core/pulp	366.0	5.0	2agg	170	1	2.27	1.24	7.88	0.1	1.94	2.69	9.4	0.31	84	165	530	5.25	11	19	69.2	25	-3	151	11.2	133	2	-0.1	-5	298	15.6	-10	-2	10
Lac McVittie	LM94-6	DXR5203	core/pulp	371.0	5.0	2agg	170	1	2.51	1.2	7.55	0.11	1.64	4.71	9.6	0.32	91	179	593	4.63	19	19	137	24.4	-3	199	14	136	11	0.7	7	266	18.9	-10	-2	11
Lac McVittie	LM94-6	DXR5204	core/pulp	376.0	5.0	2agg,ser	105	1	2.59	1.1	7.37	0.1	1.75	4	9.9	0.3	81	93	477	3.86	7	14	5.9	21.3	-3	197	10.7	128	7	-0.1	6	236	17.5	-10	-2	-3
Lac McVittie	LM94-6	DXR5205	core/pulp	378.4	2.4	2agg,ser	170	1.2	1.9	1.04	8.53	0.11	2.63	4.18	8.9	0.37	87	92	345	3.34	8	10	5.4	22.4	-3	180	13.5	149	11	1.3	8	271	18.2	-10	-2	12
Lac McVittie	LM94-6	DXR5206	core/pulp	381.0	2.6	2m,ser	135	1.2	2.44	1.03	8.44	0.11	2.46	3.58	9.2	0.32	86	94	329	3.11	7	11	3.4	17.7	-3	188	11	134	8	0.7	7	238	17.6	-10	-2	7
Lac McVittie	LM94-6	DXR5207	core/pulp	386.0	5.0	2m,ser	105	1.6	0.91	0.85	8.38	0.11	3.53	3.47	8.5	0.32	84	60	311	3.1	6	10	9.3	18.9	-3	132	10.7	142	21	1.1	-5	339	17.7	27	-2	6
Lac McVittie	LM94-6	DXR5208	core/pulp	391.0	5.0	2m,ser	105	1.5	1.72	1.21	6.26	0.11	3.05	4.09	8.3	0.36	79	65	457	3.38	7	13	2.4	17.4	-3	159	11.4	139	5	0.6	-5	389	18.7	11	-2	-3
Lac McVittie	LM94-6	DXR5209	core/pulp	396.0	5.0	2m,ser	135	1.6	0.91	1.55	7.7	0.13	3.13	4.95	10.6	0.29	110	110	648	4.13	13	15	59	26.6	-3	624	16.3	147	6	1.8	7	522	25.6	13	-2	10
Lac McVittie	LM94-6	DXR5210	core/pulp	401.0	5.0	2m,ser	170	1.7	0.12	1.56	7.47	0.1	3.53	4.9	9	0.24	113	194	649	3.77	10	14	151	21.5	-3	112	12.2	133	9	1.7	-5	288	16.7	22	-2	7
Lac McVittie	LM94-6	DXR5211	core/pulp	406.0	5.0	2m,ser	70	1.5	0.16	1.17	7.4	0.1	3.32	3.15	7.7	0.22	105	298	416	4.01	15	16	45.1	19.6	-3	76.6	10.6	125	13	1.9	10	246	15.7	22	-2	6
Lac McVittie	LM94-6	DXR5212	core/pulp	411.0	5.0	2m,ser	35	1.4	0.56	1.1	8.09	0.1	3.13	4.32	9.7	0.31	83	125	489	6.69	13	15	97.9	25	-3	150	11.5	140	3	1.8	6	320	19.1	13	-2	-3

Project	Hole No.	SAMPLE UNITS	Sample Type	Distance (Ft)	Length (Ft)	GEOLOGY	Au (ppb)	BE PPM	NA %	MG %	AL %	P %	K %	CA %	SC PPM	TI %	V PPM	CR PPM	MN PPM	FE %	CO PPM	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	W PPM	PB PPM	BI PPM
Lac McVittie	LM94-6	DXR5213	core/pulp	416.0	5.0	2m,ser	135	1.2	1.79	1.1	8.35	0.1	2.77	4.88	10.1	0.33	88	180	570	5.68	18	15	151	22	-3	178	13	145	101	1.2	5	299	23.9	21	44	15
Lac McVittie	LM94-6	DXR5214	core/pulp	421.0	5.0	2m,ser	70	1.1	1.45	1.03	7.86	0.1	2.7	4.14	9.4	0.32	83	259	455	4.47	11	14	103	25.1	-3	141	11.8	135	93	0.9	5	271	16.9	-10	-2	5
Lac McVittie	LM94-6	DXR5215	core/pulp	426.0	5.0	2m,cal	35	1	2.43	0.94	7.63	0.1	2.14	4.79	8.8	0.3	80	121	441	3.33	10	15	15.1	19.1	-3	183	12.8	126	10	1.5	-5	242	18.3	-10	-2	17
Lac McVittie	LM94-6	DXR5216	core/pulp	431.0	5.0	2m,cal	70	1	2.59	1.17	7.8	0.1	2.05	3.32	8.7	0.31	86	139	419	4.04	11	12	7.4	19.9	-3	149	12.9	124	7	0.8	7	266	16.3	-10	-2	4
Lac McVittie	LM94-6	DXR5217	core/pulp	436.0	5.0	2m,cal	135	1	3.4	1.22	8.01	0.11	1.51	3.24	9.6	0.38	88	188	456	4.29	11	17	19.2	23.6	-3	199	14.2	137	10	0.3	5	208	16.1	-10	-2	5
Lac McVittie	LM94-6	DXR5218	core/pulp	441.0	5.0	2m,epi	70	1.1	2.88	1.31	8.35	0.11	1.37	3.74	10.5	0.44	95	242	526	4.74	12	15	23	21.8	-3	375	16.2	142	11	-0.1	-5	200	17.6	-10	-2	15
Lac McVittie	LM94-6	DXR5219	core/pulp	446.0	5.0	2m,epi	135	1.1	2.88	1.25	8.05	0.1	1.44	3.74	9.8	0.42	92	180	465	4.64	14	15	35.4	19.9	-3	344	16	128	23	1	-5	204	17.7	21	-2	4
Lac McVittie	LM94-6	DXR5220	core/pulp	495.2	49.2	2m,epi	35	1.1	2.86	1.06	7.64	0.12	1.46	4.33	8.1	0.44	90	225	492	4.66	11	17	30	23.3	-3	355	15	143	9	0.8	-5	217	18.9	-10	-2	9
Lac McVittie	LM94-6	DXR5222	core/pulp	546.0	50.8	2m,epi	35	1.1	2.89	0.95	7.76	0.11	1.52	3.95	8.2	0.43	87	315	523	4.5	11	18	16.7	23.6	-3	350	15.1	137	50	0.3	5	221	18.8	-10	-2	4
Lac McVittie	LM94-6	DXR5223	core/pulp	596.0	50.0	2m,epi/cal	35	1	2.14	0.94	7.3	0.1	1.64	5.23	7.7	0.38	74	179	632	4.07	11	12	64.7	18.1	-3	287	15.8	135	8	0.2	-5	220	15.1	-10	-2	4
Lac McVittie	LM94-6	DXR5224	core/pulp	646.0	50.0	2m,epi/cal	35	1	2.9	1.19	7.97	0.11	1.16	3.97	8.5	0.41	87	164	623	4.56	13	13	80.1	21.8	-3	333	15.3	142	21	0.8	-5	185	16.1	10	-2	-3
Lac McVittie	LM94-6	DXR5225	core/pulp	660.9	14.9	2m,ser	35	1.1	2.35	0.81	7.86	0.1	1.75	4.14	10.6	0.42	100	170	743	4.28	9	15	29	28.4	-3	275	14.5	121	2	-0.1	-5	609	16.4	-10	-2	8
Lac McVittie	LM94-6	DXR5226	core/pulp	666.0	5.1	2m	35	0.9	3.28	0.99	8.5	0.08	0.9	3.61	15.6	0.45	153	196	799	4.35	18	24	15.9	34.6	-3	231	16.3	107	5	0.8	-5	264	13.1	-10	-2	8
Lac McVittie	LM94-6	DXR5227	core/pulp	671.0	5.0	2m,ser	35	0.8	3.01	0.91	7.88	0.07	1.18	5.83	15.1	0.34	132	145	1150	3.84	14	17	3.9	32	-3	215	16.7	102	2	-0.1	-5	298	13.4	-10	-2	8
Lac McVittie	LM94-6	DXR5228	core/pulp	676.0	5.0	2m	35	0.9	2.31	1.01	8.06	0.07	1.71	4.9	14.9	0.31	132	103	1010	4.03	15	19	23.5	35.9	-3	158	10.9	103	3	-0.1	-5	368	12.8	-10	-2	4
Lac McVittie	LM94-6	DXR5229	core/pulp	681.2	5.2	2m,ser	35	0.8	2.27	1	8.76	0.07	1.54	4.14	13.2	0.36	131	67	810	4.54	18	25	22.6	32.8	-3	149	8.4	103	4	-0.1	-5	235	15.9	-10	2	11
Lac McVittie	LM94-6	DXR5230	core/pulp	683.1	1.9	2m,ser	35	0.9	0.76	0.84	7.38	0.07	2.12	3.89	13.6	0.35	123	85	709	3.87	14	26	512	29.6	-3	177	7.4	97.9	135	0.3	-5	270	8.2	-10	3	34
Lac McVittie	LM94-6	DXR5231	core/pulp	686.0	2.9	2m,ser	70	1	1.67	0.99	8.11	0.08	2	3.69	15.2	0.38	135	92	833	4.05	14	19	17	24.1	-3	242	9.3	104	5	0.3	-5	265	13.6	-10	-2	6
Lac McVittie	LM94-6	DXR5232	core/pulp	691.0	5.0	2m,ser	35	1.1	0.94	1.39	7.59	0.07	2.17	4.58	14.2	0.36	131	154	1060	4.32	15	20	28	32.8	-3	195	11.6	98.7	6	-0.1	6	249	10.3	-10	-2	-3
Lac McVittie	LM94-6	DXR5233	core/pulp	696.0	5.0	2m,ser	35	0.8	2.58	1.04	8.14	0.07	1.27	5.25	14.9	0.37	138	117	975	4.28	15	19	1.9	31.1	-3	227	9.5	103	5	-0.1	5	203	12.1	-10	-2	-3
Lac McVittie	LM94-6	DXR5234	core/pulp	701.0	5.0	2m,hem	35	0.9	3.35	1.09	7.72	0.07	0.93	4.21	13.4	0.35	134	156	846	3.98	13	22	2.2	33.3	-3	297	11.1	108	8	-0.1	-5	226	17.1	-10	-2	7
Lac McVittie	LM94-6	DXR5235	core/pulp	706.0	5.0	2m,hem	35	0.9	2.97	1.14	8.21	0.07	0.81	4.47	15.3	0.28	133	178	947	4.73	16	18	2.3	33.6	-3	369	13.2	104	8	0.4	-5	190	14.4	-10	-2	9
Lac McVittie	LM94-6	DXR5236	core/pulp	711.0	5.0	2m,hem	35	0.9	2.59	1.02	8.04	0.08	1.45	3.44	14.4	0.34	134	107	739	4.16	10	17	4.9	29.6	-3	198	8.6	106	3	-0.1	-5	261	13.3	-10	-2	4
Lac McVittie	LM94-6	DXR5237	core/pulp	716.0	5.0	2m,hem	35	0.9	2.96	1.11	8.38	0.07	1.06	3.42	15.5	0.34	142	146	780	4.5	14	22	2.5	32.6	-3	262	11.2	106	6	0.2	6	238	11.8	-10	-2	5
Lac McVittie	LM94-6	DXR5238	core/pulp	721.0	5.0	2m,hem	35	0.8	2.72	1.13	7.96	0.07	1.23	4.11	14.9	0.28	134	114	896	4.85	18	19	8.4	37.5	-3	178	9.5	103	4	-0.1	-5	281	13.8	-10	-2	5
Lac McVittie	LM94-6	DXR5239	core/pulp	726.0	5.0	2m	70	1	2.95	1.07	8.54	0.08	1.5	3.47	15.4	0.32	141	123	800	4.39	18	19	1.8	32.1	-3	185	9.9	112	2	0.3	-5	359	13.2	-10	-2	-3
Lac McVittie	LM94-6	DXR5240	core/pulp	732.0	6.0	2m	35	0.9	2.42	1.19	7.76	0.07	1.08	3.8	14.2	0.29	134	125	896	5.02	22	21	2.8	39.2	-3	323	9.4	101	5	0.3	-5	232	12.5	-10	-2	4
Lac McVittie	LM94-6	DXR5241	core/pulp	736.0	4.0	2m,ser	275	0.9	1.56	1.17	8.19	0.08	1.52	4.9	15.1	0.37	132	85	854	5.08	18	23	52.8	39	-3	286	8.4	108	6	-0.1	-5	248	12.5	-10	-2	-3
Lac McVittie	LM94-6	DXR5242	core/pulp	741.0	5.0	2m,ser	35	1.2	0.81	0.96	9.29	0.09	3.06	4.93	15.4	0.41	152	113	801	4.19	13	19	12.9	28.7	-3	180	9	114	6	0.7	-5	479	10.5	-10	-2	15
Lac McVittie	LM94-6	DXR5243	core/pulp	746.0	5.0	2m,ser	70	1	1.1	1.41	8.89	0.08	2.32	5.78	16.9	0.37	157	66	1020	6.12	19	27	22.3	41.9	-3	185	10.5	112	9	1.5	6	377	14	-10	-2	11
Lac McVittie	LM94-6	DXR5244	core/pulp	751.0	5.0	2m	240	0.9	3	1.26	8.59	0.08	1.2	4.84	15.6	0.33	141	178	962	4.73	20	26	3.7	39.3	-3	221	11	109	5	0.3	-5	245	13.8	-10	-2	6
Lac McVittie	LM94-6	DXR5245	core/pulp	796.0	45.0	2m,hem	35	0.8	2.52	1.19	7.7	0.07	1.27	4.23	14.1	0.34	133	128	898	4.48	16	18	1.9	34.5	-3	159	10.7	97.6	3	-0.1	-5	258	12.3	-10	-2	7
Lac McVittie	LM94-6	DXR5246	core/pulp	845.2	49.2	2m	70	0.8	3.02	1.18	8.36	0.08	1.12	4.72	15.9	0.44	149	243	1050	4.7	8	10	13.1	38.8	-3	239	16.7	110	2	-0.1	-5	248	13.1	-10	-2	7
Lac McVittie	LM94-6	DXR5248	core/pulp	870.9	25.7	7dia	35	1.2	2.36	3.19	7.15	0.16	0.46	6.98	25.1	0.49	200	153	1500	6.31	25	32	4.8	73.1	-3	467	15.7	98.7	7	-0.1	-5	255	25.5	-10	-2	-3
Lac McVittie	LM94-6	DXR5249	core/pulp	876.0	5.1	2m	35	1.4	3.63	1.79	8.41	0.11	1.33	5.64	16.4	0.49	158	134	1000	5.15	18	14	354	42.2	-3	278	16.5	106	22	0.8	-5	370	15.9	62	-2	5
Lac McVittie	LM94-6	DXR5250	core/pulp	881.0	5.0	2m	105	1	3.36	0.85	8.27	0.07	1.59	3.5	14.8	0.47	151	272	817	4.83	20	13	132	18.6	-3	388	15.3	101	6	-0.1	-5	483	12.3	-10	-2	4
Lac McVittie	LM94-6	DXR5501	core/pulp	886.0	5.0	2m	105	0.9	2.95	0.72	8.8	0.08	1.86	4.1	15.4	0.5	153	201	858	4.9	12	12	43.1	23.5	-3	324	14.2	111	7	-0.1	-5	579	12.6	-10	-2	-3
Lac McVittie	LM94-6	DXR5502	core/pulp	891.0	5.0	2m	170	1	2.85	0.85	8.94	0.08	1.69	4.3	15.8	0.49	157	242	966	5.51	17	11	61.5	29.2	-3	367	15.6	108	4	0.6	-5	504	16.6	-10	-2	4
Lac McVittie	LM94-6	DXR5503	core/pulp	896.0	5.0	2m	35	0.8	2.92	0.66	8.66	0.08	1.9	4.3	14.8	0.48	151	289	923	4.47	11	12	24.9	28	-3	302	16.2	99.3	3	-0.1	-5	515	13.3	-10	-2	11
Lac McVittie	LM94-6	DXR5504	core/pulp	900.4	4.4	2m	35	0.8	2.48	0.54	8.06	0.07	1.82	4.02	13.9	0.44	140	198	808	4.24	13	13	57.2	23.6	-3	298	15.6	91.3	2	-0.1	-5	628	12.1	-10	-2	-3
Lac McVittie	LM94-6	DXR5505	core/pulp	945.2	44.8	2agg	70	1	1.52	2.03	6.91	0.1	1.52	7.23	13.9	0.4	123	181	1270	5.36	22	22	128	49.8	-3	331	13.9	109	14	1.3	-5	340	17.7	-10	-2	3
Lac McVittie	LM94-6	DXR5507	core/pulp	975.0	29.8	2agg	240	1.3	2.7	1.11	7.75	0.1	1.7	4.13	9.1	0.44	85	166	811	4.53	11	16	44.9	23.7	-3	280	15.7	131	9	0.1	-5	324	17.1	-10	-2	-3
Lac McVittie	LM94-6	DXR5508	core/pulp	1025.4	50.4	2m	70	1.1	2.51	1.38	7.4	0.11	1.75	3.95	9.4	0.46	93	226	988	5.18	18	20	53.5	31.7	-3	302	16	143	9	0.3	-5	288	17.5	-10	-2	-3
Lac McVittie	LM94-6	DXR5509	core/pulp	1076.0	50.6	2m	70	1.1	2.84	1.22	7.4	0.09	1.19	5.05	9.2	0.39	82	187	827	4.19	14	18	28.6	24.9	-3	328	15.4	129	6	-0.1	-5	178	16.5	-10	-2	4
Lac McVittie	LM94-6	DXR5510	core/pulp	1126.0	50.0	2m	70	1	3.17	1.38	8.1	0.1	1.36	4.68	11.4	0.44	102	189	914	5.39	16	28	11.3	41.3	-3	277	15.9	135	7	0.2	-5	186	17	-10	-2	5
Lac McVittie	LM94-6	DXR5512	core/pulp	1152.9	26.9	2m	445	1.3	2.78	1.26	7.85	0.1	2.35	4.99	10.7	0.43	95	143	1030	4.85	16	28	9.2	38.3	-3	188	15	139	3	-0.1	-5	290	21.5	17	-2	3
Lac McVittie	LM94-6	DXR5513	core/pulp	1209.5	56.6	2m,ser	35	1.3	2.48	1.32	8.07	0.11	2.07	4.15	10.5	0.51	99	130	963	5.02	14	12	19.3	38.3	-3	363	18.1	125	5	0.5	-5	262	19.8	-10	-2	10
Lac McVittie	LM94-6	DXR5515	core/pulp	1213.0	3.5	2m	35	1	3.08	1.22	7.96	0.11	1.7	3.88	10.3	0.51	97	148	956	5.08	12	14	5.7	41.7	-3	258	16.5	131	8	-0.1	-5	213	17.1	-10	-2	-3
Lac McVittie	LM94-6	DXR5516	core/pulp	1218.0	3.0	2agg,epi	70	1	3.14	1.23	7.29	0.11	0.9	4.26	10.3	0.49	102	204	1110	5.41	20	11	82.5	48.7	-3	402	15.2	122	8	-0.1	-5	109	18.1	-10	-2	-3
Lac McVittie	LM94-6	DXR5517	core/pulp	1220.8	4.8	2agg,epi	135	1.4	1.22	1.13	8.08	0.1	0.43	9.23	9.4	0.48	127	547	1740	9.85	25	20	3120	46.5	-3	707	17.7	131	71	1.1	9	57	18.3	70	-2	-227
Lac McVittie	LM94-6	DXR5518	core/pulp	1223.0	2.2	2agg,epi	135	1.2	1.11	1.04	8.61	0.09	0.37	7.71	7.4	0.37	110	393	1540	11.3	33	17	2260	43.1	-3	692	14.7	110	27	1.6	-5	44	15.4	78	-2	-227
Lac McVittie	LM94-6	DXR5519	core/pulp	1226.0	3.0	2agg,epi	105	0.9	2.77	1.23	8.03	0.1	0.71	5.66	9.3	0.47	97	262	1480	8.91	23	14	10.6	54.1	-3	484	16.9	137	37	1.1	-5	88	15.4	40	-2	8
Lac McVittie	LM94-6	DXR5520	core/pulp	1231.0	5.0	2agg,epi	35	1	2.4	1.22	7.29	0.1	0.72	6.31	9	0.42	94	284	1390	5.84	23	14	53.8	51.8	-3	458	15.7	125	21	0.4	8	101	15	-10	-2	-3
Lac McVittie	LM94-6	DXR5521	core/pulp	1236.0	5.0	2agg,epi	70	1	2.93	1.34	7.18	0.11	1.26	5.05	10.6	0.51	101	229	1180	5.14	19	18	7.8	53.2	-3	433	16	114	14	-0.1	-5	170	19.1	-10	-2	15
Lac McVittie	LM94-6	DXR5522	core/pulp	1241.0	5.0	2agg,epi	35	1	3.07	1.34	7.96	0.11	1.14	5.07	10.1	0.48	94	150	1170	5.07	18	14	16.7	55.4	-3	381	15.8	124	16	-0.1	-5	155	17.2	-10	-2	6
Lac McVittie	LM94-6	DXR5523	core/pulp	1246.0	5.0	2agg,epi	35	0.9	2.77	1.39	7.29	0.1	0.79	5.81	9.4	0.45	93	148	1260	4.98	22	12	5.5	54.6	-3	426	15.1	120	8	0.7	-5	122	15.4	-10	-2	4
Lac McVittie	LM94-6	DXR5524	core/pulp	1251.0	5.0	2agg	35	1.1	2.48	1.37	7.36	0.11	2.32	3.67	10.8	0.51	97	74	937	4.47	18	11	4.2	48.9	-3	258	15.7	110	6	1	-5	326	17.1	-10	-2	4
Lac McVittie	LM94-6	DXR5525	core/pulp	1252.8	1.8	2agg,epi	35	1	3.7	1.1	8.15	0.11	1.15	4.77	10.2	0.49	94	126	988	4.13	16	11	7.4	41.2	-3	399	16.1	141	18	0.3	-5	198	16.9	-10	-2	5
Lac McVittie	LM94-6	DXR5526	core/pulp	1254.8	2.0	2agg,epi	3360	0.8	1.87	1	7.56	0.09	0.45	9.5	9.6	0.42	99	210	1270	7.77	20	13	8.5	38.8	-3	584	16.7	123	80	-0.1	-5	89	16.4	928	-2	48
Lac McVittie	LM94-6	DXR5527	core/pulp	1258.8	4.0	2agg,epi	35	0.8	2.38	2.35	8.43	0.11	0.98	4.79	11.7	0.51	102	138	1330	6.6	23	29	8.8	80.1	-3	525	18.5	148	9	-0.1	7	217	17.8	-10	-2	7
Lac McVittie	LM94-6	DXR5528	core/pulp	1262.8	4.0	2agg,epi	35	0.9	2	2.09	7.77	0.09	1.28	4.53	15.1	0.53	152	342	1140	6.42	31	152	108	66.4	-3	727	15.5	103	7	-0.1	-5	287	18.8	-10	-2	9
Lac McVittie	LM94-6	DXR5529	core/pulp	1266.0	3.2	8d	35	1.6	2.45	3.7	7.31	0.2	2.05	4.91	13.9	0.46	111	199	715	4.04	24	172	5.7	60.8	11	978	14.2	170	-1	-0.1	-5	1110	58.3	-10	-2	4
Lac McVittie	LM94-6	DXR5530	core/pulp	1271.3	5.3	8d	35	1.7	2.29	3.79	7.03	0.19	1.98	4.65	13.7	0.44	109	247	755	4.03	28	179	9	62.6	-3	914	13.6	168	2	-0.1	-5	1100	55.4	-10	-2	8
Lac McVittie	LM94-6	DXR5531	core/pulp	1272.8	1.5	2agg,epi	35	1.3	2.66	1.86	8.41	0.12	0.53	5.7	16.1	0.74	161	263	1360	6.99	24	64	435	89.6	-3	1000	16.9	139	6	-0.1	-5	176	22.8	-10	-2	9
Lac McVittie	LM94-6	DXR5532	core/pulp	1326.0	53.2	8s,hem	35	1	3.14	1.28	8.08	0.07	1.68	3.34	16.4	0.46	154	192	966	4.91	16	13	12.2	41.3	-3	197	14.2	93.9	5	0.1	-5	232	10.3	-10	-2	-3
Lac McVittie	LM94-6	DXR5533	core/pulp	1337.0	11.0	8s,hem	70	0.9	3.94	1.44	8.75	0.08	1.44	3.49	18	0.51	164	148	811	5.2	12	8	5.4	32.8	-3	195	15.5	104	-1	-0.1	-5	226	11.7	-10	-2	10
Lac McVittie	LM94-6	DXR5534	core/pulp	1341.0	4.0	2agg,epi	35	1.3	2.93	1.69	8.3	0.11	2.16	3.19	20.7	0.74	179	113	747	6.97	20	56	137	40.8	-3	171	20.1	118	-1	-0.1	-5	326	20.1	-10	-2	7
Lac McVittie	LM94-6	DXR5535	core/pulp	1346.0	5.0	2agg,epi	35	1.3	3.46	1.57	7.88	0.12	2.13	2.82	19.9	0.73	177	122	672	6.4	22	72	22.6	35.2	-3	135	19	123	1	0.3	-5	306	16.4	-10	-2	3
Lac McVittie	LM94-6	DXR5536	core/pulp	1351.0	5.0	2agg,hem	310	1.4	2.98	1.53	7.93	0.08	2.37	3.08	16	0.52	141	116	702	5.41	34	81	28.8	39.1	-3	94.1	14.8	109	11	-0.1	8	301	12.3	-10	-2	6
Lac McVittie	LM94-6	DXR5537	core/pulp	1356.0	5.0	2agg	35	1.3	2.73	1.81	7.45	0.09	2.03	5.87	18.8	0.54	159	126	1090	5.44	38	142	52.5	52.9	-3	121	18.3	108	14	-0.1	-5	221	12.7	-10	-2	5
Lac McVittie	LM94-6	DXR5538	core/pulp	1361.0	5.0	2agg	35	1.3	2.62	1.52	7.19	0.09	2.18	5.04	17	0.55	150	88	937	5.03	28	89	152	42.2	-3	150	16.6	111	14	-0.1	-5	226	14.5	-10	-2	-3
Lac McVittie	LM94-6	DXR5539	core/pulp	1366.2	5.2	2agg	35	1.8	1.96	1.73	7.78	0.13	3.26	3.83	18.3	0.63	168	77	831	5.42	23	39	24.6	45.7	-3	144	18.1	128	5	-0.1	-5	323	19.4	-10	-2	9
Lac McVittie	LM94-6	DXR5540	core/pulp	1416.0	49.8	8s,hem	35	1.6	3.11	2	7.25	0.11	2.42	3.93	11.9	0.25	100	167	594	3.39	17	34	8.7	62.8	-3	393	11.6	103	2	-0.1	-5	943	30.7	-10	-2	3

Project	Hole No.	SAMPLE UNITS	Sample Type	Distance (Ft)	Length (Ft)	GEOLOGY	Au (ppb)	BE PPM	NA %	MG %	AL %	P %	K %	CA %	SC PPM	TI %	V PPM	CR PPM	MN PPM	FE %	CO PPM	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	W PPM	PB PPM	BI PPM
Lac McVittie		LM94-7 DXR5541	core/pulp	212-216	4.0	2m,epi	105	-0.5	2.32	2.07	7.8	0.07	0.43	7.52	40.7	1.12	426	389	1350	8.81	49	79	191	51.3	-3	395	20	33	2	0.7	-5	131	7.9	-10	-2	-3
Lac McVittie		LM94-7 DXR5542	core/pulp	221.0	5.0	2m,epi	70	-0.5	2.14	2.07	7.77	0.06	0.28	7.97	42.7	1.16	435	390	1610	9.41	79	87	348	43.7	7	320	21.7	39.3	7	-0.1	-5	57	8.5	-10	-2	-3
Lac McVittie		LM94-7 DXR5543	core/pulp	226.0	5.0	2m,epi	70	-0.5	1.95	1.97	7.72	0.06	0.29	9.14	42.1	1.17	443	439	1500	9.47	59	85	487	37.5	9	373	21.8	38.5	8	0.1	-5	53	11.2	-10	-2	-3
Lac McVittie		LM94-7 DXR5544	core/pulp	231.0	5.0	2m,epi	35	-0.5	2.23	2.23	7.61	0.06	0.4	7.48	41.8	1	373	309	1390	10.1	33	87	192	46.2	-3	306	21.2	29.3	3	0.4	-5	79	6.3	-10	-2	3
Lac McVittie		LM94-7 DXR5545	core/pulp	236.0	5.0	2m,epi	35	-0.5	1.82	2.55	7.71	0.07	0.5	8.22	39.5	1.07	406	288	1560	9.92	64	77	228	45.4	-3	386	20.9	35.3	11	0.3	-5	149	8.4	-10	44	-3
Lac McVittie		LM94-7 DXR5546	core/pulp	241.4	5.4	2m,epi	35	-0.5	1.61	2.1	7.58	0.06	0.48	8.52	40.4	1.1	423	401	1610	11.6	54	83	417	39.2	-3	414	20.9	30.1	6	0.7	-5	158	8.1	-10	-2	-3
Lac McVittie		LM94-7 DXR5547	core/pulp	246.0	4.6	8d	35	2.4	3.54	2.68	8.68	0.21	2.42	4.79	18.8	0.49	199	140	971	5.58	21	22	90.6	50.4	-3	865	16.9	142	12	0.6	-5	1340	49.3	12	-2	6
Lac McVittie		LM94-7 DXR5548	core/pulp	251.0	5.0	8d	35	3	3.66	2.72	8.7	0.22	2	5.23	19.6	0.5	213	111	952	5.58	24	20	165	48.4	-3	1080	18	141	35	0.2	-5	1180	52	32	-2	-3
Lac McVittie		LM94-7 DXR5549	core/pulp	256.0	5.0	8d	35	3.6	3.7	2.59	8.67	0.24	2.2	4.6	17.6	0.5	199	112	906	5.7	24	23	612	47.4	-3	1050	20.8	182	17	0.4	-5	1210	69.9	14	-2	-3
Lac McVittie		LM94-7 DXR5550	core/pulp	257.9	1.9	8d,epi	35	3	3.28	2.54	8.11	0.23	1.93	4.94	17.4	0.47	199	101	929	6.04	21	24	323	49.1	-3	836	18.5	159	6	0.9	-5	957	47.6	-10	-2	-3
Lac McVittie		LM94-7 DXR5551	core/pulp	261.0	3.1	2m,epi	70	0.6	2.37	1.61	7.2	0.07	1.21	6.8	37.9	1	395	384	982	11.9	57	75	314	27.4	-3	603	20	40.6	19	0.5	-5	353	8.1	52	-2	-3
Lac McVittie		LM94-7 DXR5552	core/pulp	266.0	5.0	2m,epi	1440	-0.5	2.29	2.08	6.41	0.05	0.63	5.23	34.7	0.93	389	535	1150	15	111	82	329	34.7	-3	388	20.1	31.4	22	0.6	-5	248	5.3	-10	-2	11
Lac McVittie		LM94-7 DXR5553	core/pulp	271.0	5.0	2m,epi	275	-0.5	1.99	2.31	7.02	0.06	0.55	8.23	38	1.06	418	478	1540	12.4	73	82	192	43.9	9	400	20.9	24.9	8	0.4	-5	152	4.8	-10	-2	-3
Lac McVittie		LM94-7 DXR5554	core/pulp	276.0	5.0	2m,epi	240	-0.5	2.24	2.11	7.28	0.06	0.74	7.08	39.3	1.09	425	629	1600	11	52	75	232	43.5	-3	324	20.6	28.4	6	0.4	-5	221	5.2	-10	-2	-3
Lac McVittie		LM94-7 DXR5555	core/pulp	281.0	5.0	2m,epi	375	-0.5	2.26	2.47	7.61	0.07	0.62	7.65	41.6	1.15	446	721	1550	11.9	77	109	521	54	4	391	21.4	28.2	8	1	-5	210	5.1	-10	-2	-3
Lac McVittie		LM94-7 DXR5556	core/pulp	286.0	5.0	2m,epi	35	1.5	3.09	3.17	8.46	0.18	1.34	6.73	26.1	0.69	278	315	1480	7.61	27	41	272	63.2	-3	475	19.8	126	3	0.6	-5	573	34.1	-10	-2	-3
Lac McVittie		LM94-7 DXR5557	core/pulp	291.0	5.0	2m,epi	205	0.7	2.55	2.42	6.97	0.1	0.62	5.4	27	0.72	302	619	1170	7.72	48	74	190	51.7	6	415	15	57.4	6	0.5	-5	224	14.3	-10	-2	5
Lac McVittie		LM94-7 DXR5558	core/pulp	296.3	5.3	2m,epi	135	-0.5	1.79	3.29	6.94	0.07	0.8	6.1	35.3	0.94	373	539	1420	9.55	55	82	240	55.6	4	408	16.2	31	4	0.3	-5	186	7.4	18	-2	-3
Lac McVittie		LM94-7 DXR5559	core/pulp	301.0	4.7	8d	35	1.7	2.43	3.25	7.58	0.18	1.77	5.92	22.5	0.45	211	199	1230	6.27	25	35	152	64.7	-3	552	15.7	117	4	0.5	-5	876	37.5	-10	-2	-3
Lac McVittie		LM94-7 DXR5560	core/pulp	303.7	2.7	8d?	135	0.8	1.8	2.85	6.75	0.06	1.28	6.19	34.6	0.89	364	277	1290	9.11	40	70	192	55.1	-3	269	18.6	25.8	4	0.5	-5	278	6.5	34	-2	-3
Lac McVittie		LM94-7 DXR5561	core/pulp	306.0	2.3	2m,epi	70	1	1.12	2.98	6.84	0.06	1.65	7.09	37.3	0.97	391	210	1360	8.83	36	74	213	55	-3	246	18.3	22.6	3	0.2	-5	235	5.3	75	-2	-3
Lac McVittie		LM94-7 DXR5562	core/pulp	311.0	5.0	2m,epi	135	-0.5	2.47	2.77	7.57	0.07	1.05	6.68	41.7	1.1	429	424	1360	10.2	45	85	227	51.4	-3	416	21	27.5	8	0.4	-5	302	4.6	17	-2	-3
Lac McVittie		LM94-7 DXR5563	core/pulp	316.0	5.0	2m,epi	205	0.5	1.88	2.72	6.91	0.08	0.88	7.2	35	0.88	343	298	1310	8.79	40	71	302	47	-3	416	18.2	26.3	6	-0.1	-5	230	7	-10	-2	-3
Lac McVittie		LM94-7 DXR5564	core/pulp	321.0	5.0	2m,epi	105	-0.5	1.73	2.65	6.84	0.08	0.65	4.99	24.5	0.69	241	297	1030	6.3	26	54	176	52.4	5	436	16.5	56.3	7	0.4	-5	266	13.8	-10	-2	-3
Lac McVittie		LM94-7 DXR5565	core/pulp	326.0	5.0	2m,epi	35	1.1	3.09	2.69	6.01	0.13	1.65	4.68	22	0.53	208	195	913	4.85	19	27	133	50.9	8	320	15.1	89.1	7	-0.1	-5	717	19.6	30	-2	-3
Lac McVittie		LM94-7 DXR5566	core/pulp	360.2	34.2	2m,epi	105	1.4	2.17	2.36	8	0.14	2.35	4.51	16.6	0.42	190	222	878	5.08	22	27	139	47.3	-3	285	14.2	103	4	0.2	-5	566	25	-10	-2	-3
Lac McVittie		LM94-7 DXR5567	core/pulp	364.5	4.3	HEM	135	1.2	0.99	2.69	5.37	0.16	2.67	6.3	23.5	0.25	227	243	1510	5.62	31	44	96.9	43	-3	190	11.2	61.3	47	-0.1	-5	201	24.6	44	-2	-3
Lac McVittie		LM94-7 DXR5568	core/pulp	368.3	3.8	HEM	70	1.1	0.74	2.54	6.72	0.06	3.61	5.63	37.2	0.68	373	272	1540	8.84	29	72	104	37.8	-3	140	8.1	21.6	421	0.4	8	370	5.6	54	-2	-3
Lac McVittie		LM94-7 DXR5569	core/pulp	373.2	4.9	2m,cal	70	0.8	1.29	2.84	6.5	0.06	1.98	5.61	35.2	0.56	363	121	1350	8.96	40	69	131	66.5	-3	148	8.4	13.6	6	0.3	-5	224	4.2	-10	-2	-3
Lac McVittie		LM94-7 DXR5570	core/pulp	377.9	4.7	2m,cal	35	0.8	1.7	3.16	6.72	0.06	1.53	5.86	35.6	0.56	371	165	1440	9.08	45	76	301	67.2	-3	165	10.8	18.1	8	0.7	-5	277	3.6	25	5	8
Lac McVittie		LM94-7 DXR5571	core/pulp	381.3	3.4	8d	70	1.6	2.73	3.01	8.16	0.19	1.92	3.34	18.3	0.29	193	178	809	5.18	28	24	94.6	62.4	-3	178	11.6	134	5	0.7	-5	790	42.4	20	-2	4
Lac McVittie		LM94-7 DXR5572	core/pulp	386.0	4.7	2m,cal	205	0.8	2.27	2.84	7.05	0.06	1.48	6.14	38.4	0.51	386	171	1460	9.17	53	73	340	66.1	-3	163	7.7	17.6	10	0.4	-5	184	5.4	-10	4	-3
Lac McVittie		LM94-7 DXR5573	core/pulp	391.0	5.0	2m,cal	35	0.9	1.61	2.94	6.58	0.06	2.56	5.84	36.2	0.64	378	229	1760	9.34	44	72	130	40.6	-3	146	8	13.1	7	0.2	7	282	4.1	24	-2	9
Lac McVittie		LM94-7 DXR5574	core/pulp	396.0	5.0	2m,cal	35	0.8	2.06	2.51	6.18	0.05	2.47	5.63	34	0.63	353	184	1570	8.73	39	70	160	32.7	-3	166	6.9	12.5	17	0.5	-5	214	3.3	14	-2	4
Lac McVittie		LM94-7 DXR5575	core/pulp	401.0	5.0	HEM	105	1	0.74	2.55	5.91	0.06	3.16	5.19	29.6	0.45	320	278	1270	7.23	39	80	217	28	-3	192	6.7	25.6	14	0.4	9	381	8.6	21	-2	-3
Lac McVittie		LM94-7 DXR5576	core/pulp	406.0	5.0	SER	105	1	0.13	2.85	5.86	0.06	3.31	5.48	29.1	0.39	307	277	1210	6.93	42	76	464	50.6	-3	181	6.1	25.6	66	1.2	14	266	5.9	28	-2	6
Lac McVittie		LM94-7 DXR5577	core/pulp	411.0	5.0	SER	135	1.3	0.1	3.06	4.64	0.08	2.58	6.36	13.1	0.11	185	305	990	4.35	29	101	242	35.2	-3	179	7.8	51.4	180	1.6	10	149	11.4	22	-2	26
Lac McVittie		LM94-7 DXR5578	core/pulp	416.0	5.0	TALC	70	1.7	0.08	3.21	6.53	0.04	3.54	5.71	25.6	0.3	257	234	919	6.33	43	139	777	34.1	8	152	8.1	55.8	102	1.6	22	147	6.9	37	-2	-3
Lac McVittie		LM94-7 DXR5579	core/pulp	417.9	1.9	TALC	135	0.9	0.05	3.86	2.7	0.05	1.55	8.76	7.4	0.05	158	249	862	3.81	17	99	54.2	37.3	-3	177	5.6	29.6	223	1.3	10	88	7.4	12	4	5
Lac McVittie		LM94-7 DXR5580	core/pulp	421.4	3.5	QTZ VEIN	480	1	0.06	1.34	2.04	0.03	1.09	3.01	5.3	0.06	203	515	435	2.44	18	77	215	16.1	-3	82.3	3.4	22.1	624	1.4	7	116	4.4	20	9	24
Lac McVittie		LM94-7 DXR5581	core/pulp	425.6	4.2	SER	170	2.6	2.88	3	7.11	0.07	1.84	4.51	20.1	0.41	238	209	886	4.65	24	116	105	45.2	-3	211	11.2	82.9	39	0.4	11	750	11.7	37	-2	5
Lac McVittie		LM94-7 DXR5582	core/pulp	431.0	5.4	2m,hem	205	2.3	2.86	2.94	6.95	0.16	1.35	4.9	17.3	0.22	167	70	731	4.46	24	26	72.2	61.1	-3	319	11.3	95.5	9	0.3	-5	1340	25.3	-10	-2	-3
Lac McVittie		LM94-7 DXR5583	core/pulp	436.0	5.0	2m,hem	135	2.6	2.69	3.43	7.67	0.18	2.41	5.66	19.3	0.42	204	115	901	5.25	30	45	128	73.8	-3	480	12.8	106	11	0.4	-5	1420	31.7	25	-2	-3
Lac McVittie		LM94-7 DXR5584	core/pulp	441.0	5.0	2m,hem	105	2.2	2.38	2.89	7.36	0.18	3.09	4.48	18	0.43	195	148	796	5.12	31	30	236	56.3	-3	446	12.5	104	20	0.8	6	1180	29.4	12	-2	-3
Lac McVittie		LM94-7 DXR5585	core/pulp	446.0	5.0	2m,hem	70	2.1	2.7	3.35	7.68	0.2	3.06	4.97	21	0.46	204	171	878	5.51	25	40	30.7	56.2	-3	505	13.4	109	21	1	-5	1250	28.6	20	-2	-3
Lac McVittie		LM94-7 DXR5586	core/pulp	486.0	40.0	2m,hem	205	1.7	2.36	3.12	7.36	0.17	2.41	5.01	20.8	0.45	187	219	974	5.64	28	45	74.6	56.4	-3	702	16.6	118	28	1.1	-5	1130	31.6	16	-2	-3
Lac McVittie		LM94-7 DXR5587	core/pulp	491.0	5.0	2m,epi	105	1.1	2.62	1.95	8	0.1	1.07	5.87	26.5	0.79	245	298	770	5.63	20	94	86.6	35.8	-3	814	21.5	62.3	23	0.5	-5	305	24.1	-10	-2	-3
Lac McVittie		LM94-7 DXR5588	core/pulp	496.0	5.0	2m,epi	105	1.5	2.99	2.21	7.22	0.13	0.39	6.23	20.5	0.55	184	285	846	5.44	20	64	96.1	39.3	-3	628	19.7	118	30	0.5	-5	130	32.1	-10	-2	-3
Lac McVittie		LM94-7 DXR5589	core/pulp	501.0	5.0	2m,epi	205	1.3	2.09	3.1	8.01	0.09	0.81	6.33	19.8	0.44	178	339	1010	7.38	39	110	128	46	-3	600	11.4	64.7	49	0.5	-5	259	15.2	38	-2	-3
Lac McVittie		LM94-7 DXR5590	core/pulp	506.0	5.0	2m,epi	205	0.6	1.22	3.01	6.3	0.03	0.75	7.57	20.2	0.47	178	330	1140	8.07	36	143	91.3	48.1	-3	665	9.9	33.2	27	0.5	-5	171	4.8	-10	-2	10
Lac McVittie		LM94-7 DXR5591	core/pulp	510.6	4.6	2m,epi	480	0.7	1.57	1.69	8.21	0.07	0.86	6.47	35.7	0.84	313	698	724	6.58	43	112	152	26.4	-3	627	17.4	42.1	165	0.5	-5	202	14	-10	-2	-3
Lac McVittie		LM94-7 DXR5635	core/pulp	516.0	5.4	4,ser	275	0.8	2.25	0.69	9.05	0.11	2.7	3.46	9.6	0.49	116	276	255	3.09	24	43	128	12.7	-3	263	15	136	170	0.8	-5	746	17.6	17	-2	-3
Lac McVittie		LM94-7 DXR5636	core/pulp	521.0	5.0	4,ser	685	0.8	1.85	1.16	8.27	0.1	1.46	5.01	8.9	0.44	94	334	393	3.73	15	24	63.2	17.7	-3	346	14.3	112	39	0.3	5	257	19.5	14	-2	-3
Lac McVittie		LM94-7 DXR5637	core/pulp	526.0	5.0	4,ser	105	1	1.66	1.12	9.08	0.11	2.29	4.61	9.5	0.5	96	157	357	3.62	10	15	38.2	16.7	-3	271	15.2	133	24	0.4	-5	315	18.2	17	-2	7
Lac McVittie		LM94-7 DXR5638	core/pulp	531.0	5.0	4,ser	550	1	1.77	1.2	9.11	0.12	2.06	4.47	10.4	0.5	107	371	356	4.21	17	19	86.8	16.4	-3	323	15.7	147	11	0.7	5	257	17.8	-10	-2	-3
Lac McVittie		LM94-7 DXR5639	core/pulp	536.0	5.0	4,chl	135	1.2	2.65	1.43	8.23	0.11	1.67	3.3	9.2	0.42	108	276	421	4.61	17	21	119	22.9	-3	225	13.5	130	14	0.6	-5	237	20.5	13	-2	5
Lac McVittie		LM94-7 DXR5640	core/pulp	541.0	5.0	4,chl	170	0.9	2.45	1.19	8.04	0.11	1.04	4.09	9.1	0.43	102	326	417	4.42	19	26	57.9	17.6	-3	363	14.5	117	15	0.5	-5	182	16.4	-10	-2	-3
Lac McVittie		LM94-7 DXR5641	core/pulp	546.0	5.0	4,ser	35	0.9	2.61	0.91	7.42	0.1	1.07	4.26	7.5	0.41	95	318	361	3.41	16	27	94.2	33.4	-3	335	12.5	117	19	0.7	-5	201	17.5	19	-2	-3
Lac McVittie		LM94-7 DXR5594	core/pulp	606.0	60.0	4	70	1	2.69	1.26	7.54	0.1	1.64	5.05	9.1	0.38	94	159	431	3.85	14	23	87.2	20.4	-3	240	13.1	117	22	0.3	-5	212	20.7	19	-2	-3
Lac McVittie		LM94-7 DXR5595	core/pulp	611.0	5.0	4,ser	35	0.9	1.91	1.08	7.22	0.09	2.33	4.5	7	0.24	72	117	320	3.43	11	13	93.6	15.5	-3	162	9.4	110	34	0.6	-5	287	32.7	14	-2	4
Lac McVittie		LM94-7 DXR5596	core/pulp	616.9	5.9	4,ser	35	1.2	2.01	1.07	6.83	0.11	2.38	3.66	6.1	0.33	87	244	301	3.58	5	16	64.2	16.6	-3	167	9.5	139	7	0.5	-5	332	22.9	15	-2	-3
Lac McVittie		LM94-7 DXR5597	core/pulp	621.0	4.1	4,ser	35	1	1.49	1.11	7.59	0.09	2.71	7.75	9	0.28	65	240	591	4	11	20	59.3	10.5	-3	270	23.5	119	12	0.1	-5	446	16.4	-10	-2	-3
Lac McVittie		LM94-7 DXR5598	core/pulp	626.0	5.0	4,ser	35	1.1	1.23	1.19	8.32	0.11	3.69	4.73	8.4	0.33	92	187	473	3.7	11	17	63.8	14.2	-3	177	11.3	133	24	0.5	-5	518	19.5	-10	-2	3
Lac McVittie		LM94-7 DXR5599	core/pulp	630.5	4.5	4,ser	105	1.1	1.52	1.19	8.48	0.12	3.47	4.09	8.8	0.35	90	117	453	3.67	11	17	33.6	36.1	-3	164	10.1	137	7	1.1	-5	376	18.5	11	-2	-3
Lac McVittie		LM94-7 DXR5600	core/pulp	632.6	2.1	4,qtz vein	70	1	0.68	0.9	5.69	0.11	2.24	3.22	6.8	0.16	108	378	334	4	28	37	16.6	19.3	-3	141	9.4	102	13	0.3	-5	243	18.4	-10	-2	4
Lac McVittie		LM94-7 DXR5601	core/pulp	636.0	3.4	4,ser	70	1.1	0.67	1.31	8.1	0.1	3.7	4.78	9.6	0.29	92	91	513	3.8	17	16	26.1	20.6	-3	146	9.6	129	15	0.4	-5	360	16.5	-10	-2	6
Lac McVittie		LM94-7 DXR5602	core/pulp	638.2	2.2	4,ser	70	1	1.43	1.28	8.8	0.11	3.23	5.35	9.8	0.38	95	114	398	4.25	16	16	48.2	22	-3	163	9.4	143	11	0.5	-5	287	26.5	21	-2	5
Lac McVittie		LM94-7 DXR5603	core/pulp	641.0	2.8	4,hem	135	0.9	3.09	1.31	8.2	0.1	2.2	3.84	8.6	0.34	87	128	326	3.63	12	18	71.8	17.2	-3	170	8.7	132	14	0.4	-5	240	33.2	13	-2	-3
Lac McVittie		LM94-7 DXR5604	core/pulp	646.0	5.0	4,hem	105	1	3.2	1.16	6.81	0.1	1.85	4.35	6.8	0.38	92	140	327	3.61	13	16	93.8	16.2	-3	201	9.9	126	27	0.5	-5	223	22.9	16	-2	-3
Lac McVittie		LM94-7 DXR5605	core/pulp	696.0	50.0	4l	105	1.1	3.14	1.38	8.94	0.12	1.52	4.15	9.7	0.5	111	354	384	4.74	15	21	100	16.4	-3	368	16.4	138	12	0.4	-5	223	19.7	-10	-2	7
Lac McVittie		LM94-7 DXR5606	core/pulp	725.1	29.1	4l	105	0.9	2.5	1.07	7.99	0.1	2.27	4.48	8.4	0.45	94	176	386	3.58	9	18	46.7	14	-3	294	13.6	123	15	-0.1	-5	481	26.1	17	-2	-3
Lac McVittie		LM94-7 DXR5608	core/pulp	767.3	42.2	4l	170	1	2.59	1.36	8.5	0.11	1.54	4.25	10	0.45	102	292	689	5.52	24	25	181	26.2	-3	474	16.3	119	10	0.6	-5	321	21.8	12	-2	6
Lac McVittie		LM94-7 DXR5609	core/pulp	796.0	28.7	2m	35	2.2	2.41	3.58	7.24	0.19	2.23	5.55	20.1	0.43	191	185	1120	5.8	24	36	157	65.5	-3	734	11.5	96.8	5	0.4	-5	944	30.8	20	-2	-3
Lac McVittie		LM94-7 DXR5610	core/pulp	845.7	49.7	2m	35	1.9	2.54	3.47	7.73	0.19	2.47	5.7	21.1	0.45	189	191	971	5.64	24	33	8.6	55.6	-3	723	12.4	102	10	0.1	-5	1000	28	-10	-2	5
Lac McVittie		LM94-7 DXR5611	core/pulp	858.8	13.1	2agg,hem	105	1.5	3.96	1.8	8.97	0.13	3.1	4.02	17.2	0.51	155	140	605	5.26	12	26	17	29.9	-3	281	16.6	130	17	0.7	-5	779	18.9	22	-2	-3
Lac McVittie		LM94-7 DXR5612	core/pulp	890.4	31.6	8d,cal	35	1.9	2.89	3.02	7.35	0.19	1.51	5.74	19	0.46	173	81	912	5.41	19	23	57	62.4	-3	346	17.7	124	3	0.3	-5	532	32.5	12	-2	-3
Lac McVittie		LM94-7 DXR5613	core/pulp	945.3	54.9	4,ser	70	1.2	3.21	1.32	9.32	0.12	1.36	4.93	10.6	0.52	115	258	420	4.46	16	22	312	16.8	-3	630	17.2	139	29	0.8	-5	280	19.6	20	-2	-3
Lac McVittie		LM94-7 DXR5615	core/pulp	996.0	50.7	4	105	1	3	1.41	9.11	0.12	1.3	5.35	10.5	0.5	112	346	623	4.77	14	21	63.4	23.1	7	420	17.4	146	5	0.5	-5	231	20.2	-10	-2	-3
Lac McVittie		LM94-7 DXR5616	core/pulp	1046.0	50.0	4	70	0.9	2.66	1.11	8.59	0.11	1.31	4.4	9.6	0.45	101	267	476	4.46	16	20	179	19	-3	346	15	140	6	0.6	-5	226	16.5	20	-2	-3
Lac McVittie		LM94-7 DXR5617	core/pulp	1051.0	5.0	4	35	0.9	1.99	1.24	8.99	0.11	2.63	4.37	9.5	0.35	93	169	414	4.53	13	14	107	22.1	-3	200	10.9	143	6	0.8	-5	314	22.4	-10	-2	-3
Lac McVittie		LM94-7 DXR5618	core/pulp	1056.0	5.0	4,ser	35	1	2.16	1.2	9.02	0.12	2.49	5.24	9.9	0.4	98	146	488	4.67	17	14	161	19.6	-3	239	11.6	146	13	0.8	-5	324	20.9	-10	-2	-3
Lac McVittie		LM94-7 DXR5619	core/pulp	1061.0	5.0	4,ser	35	1.1	1.6	1.04	9.35	0.12	2.85	4.6	8.7	0.33	93	98	463	4.24	19	17	96.5	16.2	-3	188	9.8	149	11	0.3	-5	404	17.3	-10	-2	5

Project	Hole No.	SAMPLE UNITS	Sample Type	Distance (Ft)	Length (Ft)	GEOLOGY	Au (ppb)	BE PPM	NA %	MG %	AL %	P %	K %	CA %	SC PPM	TI %	V PPM	CR PPM	MN PPM	FE %	CO PPM	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	W PPM	PB PPM	BI PPM
Lac McVittie		LM94-7 DXR5620	core/pulp	1064.0	3.0	qtz vein	135	1	1.09	0.63	6.98	0.07	2.37	2.65	5.9	0.27	111	444	313	2.74	12	36	26.8	13.3	-3	130	8.2	120	6	0.6	-5	302	9.4	-10	-2	4
Lac McVittie		LM94-7 DXR5621	core/pulp	1067.0	3.0	qtz vein	35	0.5	0.19	0.91	4.81	0.06	1.43	2.35	3	0.21	91	539	290	4.05	17	29	183	21.7	-3	95.5	5.8	91	11	0.2	-5	212	5.8	14	3	-3
Lac McVittie		LM94-7 DXR5622	core/pulp	1071.8	4.8	SER	35	1.3	0.51	0.98	8.73	0.11	4.19	4.54	9.3	0.4	116	83	573	3.73	9	11	29.8	11.7	-3	151	9.3	150	5	0.5	-5	507	18.8	-10	-2	5
Lac McVittie		LM94-7 DXR5623	core/pulp	1076.6	4.8	qtz vein	35	0.6	0.62	0.93	5.63	0.07	2.05	5.28	6.9	0.2	85	388	662	3.6	16	20	57.3	13.3	-3	348	12.1	92.9	11	0.6	-5	272	11.5	-10	-2	-3
Lac McVittie		LM94-7 DXR5624	core/pulp	1081.6	5.0	HEM	70	1.3	1.71	0.88	10	0.12	3.87	3.79	9.8	0.36	107	118	542	3.45	15	12	324	11.9	6	199	10	152	4	0.5	-5	473	21.1	11	-2	-3
Lac McVittie		LM94-7 DXR5625	core/pulp	1085.2	3.6	qtz vein	35	0.7	0.6	1.48	4.69	0.07	1.8	7.8	6.4	0.19	78	393	1030	4.88	14	22	55.3	19.8	-3	494	12.9	84.7	5	0.2	-5	243	11.4	-10	-2	12
Lac McVittie		LM94-7 DXR5626	core/pulp	1088.0	2.8	qtz vein	35	0.6	0.81	1.07	5.17	0.07	1.71	5.66	6.4	0.18	70	300	804	3.74	12	19	31.8	17.5	-3	261	9.5	83.7	10	0.5	6	203	11.9	-10	-2	5
Lac McVittie		LM94-7 DXR5628	core/pulp	1091.0	3.0	2m,ser	35	0.9	1.08	0.99	8.36	0.1	2.71	5.32	8.9	0.32	81	54	589	4.05	12	11	8.2	17	-3	197	9.8	135	6	0.4	6	295	16.3	-10	-2	8
Lac McVittie		LM94-7 DXR5629	core/pulp	1096.0	5.0	2m	70	1	1.85	1.18	8.96	0.11	2.24	3.82	9.5	0.29	91	88	524	4.54	12	12	28.1	21.5	-3	219	9.9	143	3	0.2	-5	316	18.7	-10	-2	7
Lac McVittie		LM94-7 DXR5630	core/pulp	1101.0	5.0	2m,ser	35	0.9	2.55	1.1	7.44	0.1	1.92	3.83	7.7	0.26	83	111	517	4.07	10	14	22.5	18.3	-3	215	8.2	124	5	0.7	6	275	26.5	-10	-2	11
Lac McVittie		LM94-7 DXR5631	core/pulp	1106.0	5.0	2m	70	1	2.49	1.13	8.72	0.11	2.09	5.21	9.3	0.27	92	149	642	4.5	17	18	173	19.4	-3	201	9.9	140	7	-0.1	6	307	19.5	-10	-2	-3
Lac McVittie		LM94-7 DXR5632	core/pulp	1135.5	29.5	2m	35	0.8	2.56	1.11	7.82	0.1	1.76	5.1	8	0.26	78	96	633	3.9	16	13	104	21.1	-3	216	10.7	124	4	0.9	-5	243	22.4	-10	-2	5

Project	SAMPLE				GEOLOGY	Au	BE	NA	MG	AL	P	K	CA	SC	TI	V	CR	MN	FE	CO	NI	CU	ZN	AS	SR	Y	ZR	MO	AG	SB	BA	LA	W	PB	BI
	UNITS					(ppb)	PPM	%	%	%	%	%	%	PPM	%	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM
Lac McVittie	LM94-8 DXR5642	core/pulp	30-86	56.0	4agg, cal	35	0.5	1.63	1.05	5.64	0.06	0.5	12.9	8.4	0.18	77	20	2810	5.1	13	3	19.7	63.9	6	215	8.8	76.9	-1	0.6	-5	145	10.6	-10	-2	-3
Lac McVittie	LM94-8 DXR5643	core/pulp	146.0	66.0	5c, cal	35	0.8	2.31	1.06	7.14	0.08	0.92	7.56	10.4	0.21	92	106	1920	4.94	17	12	33.8	84.2	26	222	10.2	107	-1	0.6	-5	256	19.6	-10	-2	-3
Lac McVittie	LM94-8 DXR5644	core/pulp	196.0	50.0	5c, cal	35	0.7	1.57	1.08	6.83	0.07	1.13	7.82	9.9	0.18	87	83	1730	4.1	12	10	39.1	92.5	10	217	10.2	89.3	1	0.8	-5	327	16.2	-10	-2	-3
Lac McVittie	LM94-8 DXR5645	core/pulp	235.0	39.0	4t, cal	35	0.8	2.08	2.72	6.26	0.11	0.44	7.31	19	0.26	149	112	1490	5.61	25	29	77.8	92.1	40	232	10.5	82.8	-1	0.4	-5	253	17.5	-10	-2	-3
Lac McVittie	LM94-8 DXR5647	core/pulp	286.0	51.0	4t, cal	35	0.7	1.71	1.22	5.87	0.07	0.87	12.3	11.2	0.22	93	35	2350	4.25	12	5	29.8	65.4	-3	243	10.7	82.1	-1	0.7	-5	340	13.6	-10	-2	-3
Lac McVittie	LM94-8 DXR5648	core/pulp	326.0	40.0	4t, cal	35	0.8	2.29	0.82	7.97	0.09	1.23	8.55	10.4	0.21	106	45	1800	4.46	12	8	32.7	74.8	-3	269	11.7	112	-1	0.7	-5	322	16	-10	-2	-3
Lac McVittie	LM94-8 DXR5649	core/pulp	376.0	50.0	5c, cal	35	0.7	2.12	0.92	8	0.08	1.28	6.64	11	0.21	94	133	1530	4.72	20	19	53.5	86.1	34	257	11.7	117	-1	0.5	-5	309	16.2	-10	-2	-3
Lac McVittie	LM94-8 DXR5650	core/pulp	445.2	69.2	5c, cal	105	0.6	1.71	1.6	8	0.09	1.24	5.45	13.8	0.19	111	159	1300	5.86	20	17	41.4	110	15	241	12.1	104	-1	0.6	-5	250	18.4	-10	-2	-3
Lac McVittie	LM94-8 DXR5652	core/pulp	451.0	5.8	4agg, cal	105	0.6	2.12	1.04	7.7	0.08	1.03	5.33	13.8	0.24	111	102	1350	4.8	14	10	39.1	102	41	279	11.8	116	-1	0.2	-5	302	17.1	-10	-2	-3
Lac McVittie	LM94-8 DXR5653	core/pulp	456.0	5.0	4agg	310	0.6	1.78	1.31	6.51	0.07	0.86	8.39	12.1	0.17	97	254	1520	4.55	15	11	40	86.1	149	380	13.9	98.8	-1	0.6	-5	240	16.1	-10	-2	-3
Lac McVittie	LM94-8 DXR5654	core/pulp	459.3	3.3	4agg	70	0.6	1.87	1.89	7.19	0.08	0.71	4.96	13.6	0.14	110	371	1210	6.58	19	18	57.2	162	204	228	12.5	103	-1	0.9	-5	202	19.8	-10	-2	4
Lac McVittie	LM94-8 DXR5655	core/pulp	464.4	5.1	4agg, hem?	35	0.8	1.9	1.62	7.1	0.08	1.09	5.28	12.6	0.18	96	185	1570	5.84	20	16	35.5	71.2	432	288	12.4	109	3	0.9	-5	323	13.2	-10	3	-3
Lac McVittie	LM94-8 DXR5656	core/pulp	469.0	4.6	4agg	35	0.8	1.82	1.8	8.71	0.08	1.27	4.89	11.2	0.19	98	306	1770	8.1	17	15	58.2	89.3	775	288	12.9	113	3	1.1	-5	420	14.6	-10	13	5
Lac McVittie	LM94-8 DXR5657	core/pulp	473.1	4.1	5c	35	0.9	1.52	1.03	6.98	0.08	1.92	2.5	11.6	0.21	100	448	1110	6.63	31	46	71.1	43.7	181	249	11.4	113	4	2.2	10	674	15.2	-10	37	-3
Lac McVittie	LM94-8 DXR5658	core/pulp	476.0	2.9	5a, gr	135	1.2	1.28	0.53	7.65	0.08	2.33	1.03	17.2	0.22	105	372	249	5.89	68	212	257	102	514	301	11.8	117	9	3	19	631	29.5	-10	82	5
Lac McVittie	LM94-8 DXR5659	core/pulp	481.0	5.0	5a, gr	135	1.2	1.09	0.88	7.17	0.05	2.25	1.71	21.5	0.15	130	217	473	4.71	56	166	369	96	355	302	11.1	96.1	5	2.1	15	816	25.7	-10	66	-3
Lac McVittie	LM94-8 DXR5660	core/pulp	486.5	5.5	5a, gr	70	1.6	1.25	0.68	4.7	0.06	2.1	1.12	17.8	0.18	109	348	238	5.27	76	244	515	228	499	232	12.6	103	10	3.4	24	697	35.1	-10	99	-3
Lac McVittie	LM94-8 DXR5661	core/pulp	491.0	4.5	4	35	1.6	2.96	2.04	8.07	0.16	1.79	4.86	9.8	0.21	131	484	918	3.7	18	24	65.3	101	82	441	11.4	121	2	0.4	-5	773	41.8	-10	-2	-3
Lac McVittie	LM94-8 DXR5662	core/pulp	496.0	5.0	4	35	1.7	2.74	2.1	8.1	0.16	1.64	4.56	10	0.18	124	211	821	3.63	17	21	63	98	39	372	11	118	-1	0.9	-5	790	33.3	-10	3	-3
Lac McVittie	LM94-8 DXR5663	core/pulp	501.9	5.9	4	135	1.6	2.21	2.08	7.1	0.15	1.56	4.95	8.8	0.17	116	234	892	3.22	18	21	57.2	111	97	383	10.4	104	3	0.3	-5	707	28.8	-10	-2	-3
Lac McVittie	LM94-8 DXR5664	core/pulp	506.7	4.8	5a, gr	70	1.9	0.85	1.89	7.32	0.12	2.23	3.83	14.1	0.17	126	762	749	5.76	45	122	195	174	398	385	11.8	114	6	1.5	14	945	33.2	-10	33	-3
Lac McVittie	LM94-8 DXR5665	core/pulp	511.0	4.3	4	35	1.7	1.9	1.82	7.81	0.16	2.16	4.32	9.4	0.2	124	263	765	3.4	18	20	86.3	93	152	358	10.3	112	2	0.3	-5	936	30.9	-10	-2	-3
Lac McVittie	LM94-8 DXR5666	core/pulp	516.0	5.0	4	35	1.7	1.92	1.93	7.92	0.17	2.23	4.95	9.6	0.18	125	150	791	3.29	19	27	58.8	80.7	986	396	11.2	115	-1	0.6	-5	965	30.4	-10	-2	-3
Lac McVittie	LM94-8 DXR5667	core/pulp	521.0	5.0	4	35	1.5	2.17	2.2	7.53	0.15	1.94	5.79	9.2	0.2	119	176	928	3.54	16	23	47.7	91.7	786	404	11.5	110	2	0.5	10	801	27.8	-10	-2	4
Lac McVittie	LM94-8 DXR5668	core/pulp	526.0	5.0	4	35	1.4	2.2	1.76	7.77	0.16	2.06	4.29	9.8	0.2	128	435	766	4.15	21	31	67.3	111	207	372	11.5	114	13	0.6	-5	814	28.7	-10	5	-3
Lac McVittie	LM94-8 DXR5669	core/pulp	527.6	1.6	4	35	1.1	2.18	2.07	7.17	0.16	1.98	4.76	9.3	0.16	117	168	988	4.73	18	30	71.8	600	244	369	10.7	108	34	0.7	-5	730	25	-10	5	9
Lac McVittie	LM94-8 DXR5670	core/pulp	529.6	2.0	5a, gr	105	1.7	1.08	1.43	6.94	0.08	2.41	2.41	17.1	0.21	122	355	519	6.19	54	193	333	227	539	254	12	119	13	1.8	13	569	37	-10	46	-3
Lac McVittie	LM94-8 DXR5671	core/pulp	536.0	6.4	4	35	1	2.55	1.72	6.5	0.14	0.99	3.57	7.4	0.18	119	324	661	3.3	19	30	45.8	111	87	272	8.4	102	3	0.8	-5	409	27.5	-10	-2	6
Lac McVittie	LM94-8 DXR5672	core/pulp	541.0	5.0	4	35	1.4	3.82	2.18	8.59	0.19	1.13	4.56	10.2	0.25	140	208	826	3.98	17	22	53.8	118	115	435	10.8	128	-1	0.8	-5	527	37.6	-10	-2	3
Lac McVittie	LM94-8 DXR5673	core/pulp	548.0	5.0	4	35	1.4	3.23	1.93	7.12	0.15	0.87	4.02	8.6	0.2	114	205	808	3.25	16	17	43.9	84.1	21	412	9.6	105	-1	0.4	-5	438	29.5	-10	-2	-3
Lac McVittie	LM94-8 DXR5674	core/pulp	548.2	2.2	4	35	1.5	2.87	1.87	7.26	0.16	1.5	3.73	9.4	0.2	122	152	852	3.57	20	35	59.6	138	61	368	10.6	116	2	0.7	-5	625	36.9	-10	-2	-3
Lac McVittie	LM94-8 DXR5675	core/pulp	553.3	5.1	5a, gr	35	1.7	1.02	0.67	7.52	0.07	2.72	2.56	15.1	0.21	119	894	453	3.54	33	94	169	438	246	305	10.9	125	5	1.1	14	989	30.7	-10	22	-3
Lac McVittie	LM94-8 DXR5676	core/pulp	558.0	4.7	5a, gr	35	1.4	1.1	0.94	7.4	0.08	2.95	1.84	15.6	0.22	128	890	483	3.97	32	113	95.9	523	279	231	11.6	124	4	0.6	11	937	37.4	-10	18	-3
Lac McVittie	LM94-8 DXR5677	core/pulp	562.6	4.8	5c, hem?	35	-0.5	1.52	1	6.37	0.06	1.57	1.54	7.9	0.16	105	770	565	15.1	32	58	78.8	128	249	195	8.2	86.4	-1	4	25	448	20.7	-10	54	13
Lac McVittie	LM94-8 DXR5678	core/pulp	566.0	3.2	4t	35	0.8	2.11	1.19	7.51	0.08	1.48	3.12	11.4	0.31	116	137	1120	4.92	17	19	24.8	100	-3	227	9.3	98.2	-1	1	-5	398	23.5	-10	-2	4
Lac McVittie	LM94-8 DXR5679	core/pulp	571.0	5.0	4t	35	0.8	1.87	1.04	7.52	0.08	1.37	3.78	12.3	0.25	110	152	1160	4.39	16	13	32	101	-3	234	8.9	92.8	-1	0.7	-5	361	14.8	-10	-2	-3
Lac McVittie	LM94-8 DXR5680	core/pulp	576.0	5.0	4t	135	0.8	2.27	1.18	8.45	0.1	1.47	3.41	13.2	0.4	107	29	1070	5.08	11	8	28	101	5	243	11.3	126	-1	0.5	-5	370	18.1	-10	-2	4
Lac McVittie	LM94-8 DXR5681	core/pulp	581.0	5.0	4t	35	0.8	2.4	1.21	8.58	0.11	1.29	3.3	12.6	0.4	110	74	1100	5.44	12	9	33.4	117	8	234	11.4	123	-1	0.5	-5	310	15.5	-10	-2	-3
Lac McVittie	LM94-8 DXR5682	core/pulp	586.0	5.0	4t	70	0.7	2.28	1.3	7.88	0.1	0.91	4.03	11.2	0.36	96	52	1250	6.07	11	8	32.3	122	-3	215	11.6	115	-1	0.9	-5	211	15.8	-10	-2	-3
Lac McVittie	LM94-8 DXR5683	core/pulp	636.0	50.0	4t	70	0.7	1.95	1.25	7.47	0.08	1.24	4.2	15.1	0.36	124	45	1040	4.61	18	17	36.6	110	-3	209	10.5	96.3	-1	0.7	-5	313	13.4	-10	-2	-3
Lac McVittie	LM94-8 DXR5684	core/pulp	685.3	49.3	4t	70	0.6	1.84	1.42	7.14	0.08	0.9	6.54	13.5	0.28	107	90	1660	5.31	19	21	50.7	124	-3	273	9.5	100	11	1	-5	209	13.6	-10	-2	-3
Lac McVittie	LM94-8 DXR5686	core/pulp	691.0	5.7	4t, chl	70	-0.5	1.89	1.77	7.22	0.09	0.51	4.17	15.1	0.28	112	69	1650	7.48	20	26	27.9	187	-3	179	9.7	104	-1	0.9	-5	112	15.2	-10	-2	-3
Lac McVittie	LM94-8 DXR5687	core/pulp	696.0	5.0	4t, chl	35	0.6	2.03	1.28	7.1	0.08	0.74	3.38	12.9	0.26	105	92	1180	6.12	20	25	30.7	123	-3	192	9.1	101	3	0.8	-5	165	13.3	-10	-2	-3
Lac McVittie	LM94-8 DXR5688	core/pulp	701.0	5.0	4t, chl	70	0.7	1.54	0.67	5.72	0.06	0.94	3	8.1	0.19	93	319	640	2.57	14	20	20.3	57.2	-3	224	8.3	91.3	4	0.4	-5	203	10.2	-10	-2	-3
Lac McVittie	LM94-8 DXR5689	core/pulp	706.0	5.0	4t, chl	205	0.6	0.66	0.46	4.06	0.04	0.75	2.82	5.7	0.13	85	309	584	1.72	8	25	15.6	38.4	-3	201	6.2	63.4	2	0.3	-5	162	7.5	-10	-2	-3
Lac McVittie	LM94-8 DXR5690	core/pulp	711.0	5.0	4t, chl	35	0.7	3.03	1.15	8.09	0.1	1.11	2.46	11.6	0.28	114	144	637	3.55	14	18	4.9	89.3	-3	221	9.8	127	-1	0.7	-5	228	17.4	-10	-2	-3
Lac McVittie	LM94-8 DXR5691	core/pulp	716.0	5.0	4t, chl	135	0.7	2.43	1.31	7.45	0.11	1.09	3.17	12.7	0.18	114	191	683	3.78	16	39	13.5	87.3	31	195	10.9	104	1	0.8	-5	261	16.2	-10	-2	-3
Lac McVittie	LM94-8 DXR5692	core/pulp	721.0	5.0	4t, chl	480	0.8	2.2	1.1	7.24	0.08	1.1	2.82	12	0.17	121	194	629	3.82	15	22	15.7	78.5	-3	177	9.5	104	-1	0.4	-5	278	13.4	-10	-2	-3
Lac McVittie	LM94-8 DXR5693	core/pulp	726.0	5.0	4t, chl	35	0.8	2.21	1.21	7.44	0.09	1.27	3.55	12.2	0.18	125	101	854	3.44	14	19	42.9	70.8	-3	200	9.9	101	-1	0.4	-5	300	13.7	-10	-2	-3
Lac McVittie	LM94-8 DXR5694	core/pulp	775.0	49.0	4t, chl	35	0.7	1.96	0.86	6.94	0.09	1	4.34	10.5	0.22	94	47	1320	4.16	10	6	36.6	78.9	-3	227	8.8	92.1	-1	-0.1	-5	236	14	-10	-2	-3
Lac McVittie	LM94-8 DXR5696	core/pulp	806.0	31.0	4t, chl	35	0.7	1.84	0.9	6.87	0.09	1.16	6.16	9.6	0.23	91	185	1770	4.8	11	4	40.2	90.4	-3	264	10	94.4	-1	0.8	-5	261	13.7	-10	-2	-3

Project	Hole no.	SAMPLE UNITS	Sample Type	Distance (ft)	Length (ft)	GEOLOGY	Au (ppb)	BE PPM	NA %	MG %	AL %	P %	K %	CA %	SC PPM	TI %	V PPM	CR PPM	MN PPM	FE %	CO PPM	NI PPM	CU PPM	ZN PPM	AS PPM	SR PPM	Y PPM	ZR PPM	MO PPM	AG PPM	SB PPM	BA PPM	LA PPM	W PPM	PB PPM	BI PPM
Lac McVittie	LM94-9	84401	core/pulp	118.1-159		2t		0.7	1.94	1.08	7.63	0.09	0.76	3.56	12.1	0.26	95	32	987	3.95	15	14	28.4	112	-3	299	8.8	113	-1	0.8	-5	248	7.9	-10	-2	6
Lac McVittie	LM94-9	84408	core/pulp	239-313		2t		-0.5	2.01	1.27	8.99	0.08	0.77	3.76	12.4	0.3	96	27	1400	4.84	13	13	35.6	95.7	-3	186	9.4	110	-1	0.8	-5	206	8.8	-10	-2	-3
Lac McVittie	LM94-9	84409	core/pulp	338-371		2t		0.6	1.92	1.04	7.58	0.08	0.69	5.27	12.5	0.32	102	29	1430	4.41	10	11	24.5	86.9	-3	257	10.9	117	-1	0.8	-5	232	9.3	-10	-2	-3
Lac McVittie	LM94-9	84410	core/pulp	371-447		2t		0.6	2.45	0.89	7.92	0.08	0.88	5.14	12.1	0.34	102	66	1260	4.25	11	16	16.8	116	-3	243	11.1	127	-1	1.1	-5	247	12.1	-10	-2	-3
Lac McVittie	LM94-9	84411	core/pulp	447-456		2t		0.5	2.24	1.37	7.42	0.05	1.16	7.05	27.7	0.23	162	116	1180	3.07	16	41	3.7	97.4	-3	244	8.5	80.9	-1	0.8	-5	327	8.9	-10	-2	-3
Lac McVittie	LM94-9	84412	core/pulp	456-522		2t		0.7	3.1	1.24	8.85	0.11	0.88	3.43	13.6	0.33	125	17	1010	4.98	13	11	7.8	113	-3	218	10.9	128	-1	0.3	-5	240	14.7	-10	-2	6
Lac McVittie	LM94-9	84413	core/pulp	527-616		2t		0.6	2.29	1.02	7.94	0.09	0.7	5.74	12.5	0.34	100	34	1430	4.1	12	8	7.5	83.2	-3	300	8.9	111	-1	0.7	-5	193	12.2	-10	-2	-3
Lac McVittie	LM94-9	84414	core/pulp	616-700		2t		0.7	2.66	0.94	8.92	0.1	0.82	4.71	13.3	0.38	116	20	1250	4.24	11	9	22.1	98.1	-3	286	10	130	-1	0.9	-5	216	13.4	-10	-2	-3

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-5

DATE: Nov 7/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5000	.002	70					
2	01	.002	70					
3	02	.002	70					
4	03	.001	35					
5	5005	.002	70					
6	06	.001	35					
7	07	.001	35					
8	08	.001	35					
9	09	.002	70					
10	10	.001	35					
11	11	.001	35					
12	12	.001	35					
13	13	.001	35					
14	5015	.001	35					
15	16	.001	35					
16	17	.001	35					
17	18	.002	70					
18	19	<.001	<35					
19	20	.002	70					
20	21	.001	35					
21	22	.001	35					
22	23	.001	35					
	24	.001	35					
24	DXR 5025	.001	35					

Lab16 R. Pressacco

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

EXPLORATION 5600-1513

LM-94-5

DATE: Oct 31/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5026	.001	35					
2	27	.001	35					
3	28	.001	35					
4	29	.002	70					
5	30	.001	35					
6	31	.001	35					
7	32	.001	35					
8	5034	.002	70					
9	35	.002	70					
10	36	.001	35					
11	37	.001	35					
12	38	.002	70					
13	39	.002	70					
14	40	.001	35					
15	41	.002	70					
16	42	.002	70					
17	43	.002	70					
18	44	.001	35					
19	45	.001	35					
20	46	.002	70					
21	47	.002	70					
22	48	.001	35					
	49	.001	35					
24	DXR 5050	.001	35					

Lab16 R. PRESCO

Chief Chemist: [signature]

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

EXPLORATION 5600-1513

LM-94-5

DATE: Oct 31/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5051	<.001	<35					
2	52	.001	35					
3	53	.001	35					
4	54	.001	35					
5	55	.001	35					
6	56	.001	35					
7	57	.001	35					
8	5059	.001	35					
9	60	<.001	<35					
10	61	.001	35					
11	62	<.001	<35					
12	63	<.001	<35					
13	64	.001	35					
14	65	.001	35					
15	66	.001	35					
16	5068	.001	35					
17	69	<.001	<35					
18	70	.001	35					
19	71	.001	35					
20	72	.013	445					
21	73	.001	35					
22	74	.001	35					
3	75	.036	1230					
24	DXR 5076	.001	35					

Lab16 R. Pearce

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

GM-94-5

DATE: Nov 1/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5077	.001	35					
2	78	.001	35					
3	79	.001	35					
4	80	.001	35					
5	81	.001	35					
6	82	<.001	<35					
7	83	.003	105					
8	84	.003	105					
9	85	.001	35					
10	86	<.001	<35					
11	87	<.001	<35					
12	88	<.001	<35					
13	89	<.001	<35					
14	90	<.001	<35					
15	91	<.001	<35					
16	92	.001	35					
17	93	<.001	<35					
18	5095	.001	35					
19	96	<.001	<35					
20	97	.001	35					
21	98	.001	35					
22	99	<.001	<35					
23	5100	.002	70					
24	DXR 5101	.006	205					

Lab16 R. Pranco

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-5

DATE: Nov 1/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5102	<.001	<35					
2	03	<.001	<35					
3	DXR 5104	<.001	<35					
4								
5								
6								
7								
8								
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10								
11								
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Lab16 R. Prasacco

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-05

DATE: Oct 26/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5105	.002	70					
2	06	.001	35					
3	07	<.001	<35					
4	08	<.001	<35					
5	09	.002	70					
6	10	.002	70					
7	11	.001	35					
8	12	.002	70					
9	DXR 5113	<.001	<35					
10								
11								
12								
13								
14								
15								
16								
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19								
20								
21								
22								
23								
24								

Lab16 R. Pressacco

Chief Chemist: [signature]

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-5

DATE: Nov 10/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5114	.001						
2	15	.001						
3	16	.001						
4	17	.001						
5	18	.001						
6	19	.001						
7	20	.001						
8	21	.002	70					
9	22	.005	170					
10	23	.001						
11	24	.001						
12	DXR 5125	.001						
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
3								
24								

Lab16 R. Pressacco

Chief Chemist: _____

ROYAL OAK ANALYTICAL LABORATORY

LM-94-5
LM-94-6

CERTIFICATE OF ANALYSIS

EXPLORATION 5600-1513

RE Assays Pulp Rejects

DATE: Nov 17/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5051	.001	35					
2	5052	.001	35					
3	5072	.014	480					
4	5075	.009	310					
5	5085	.001	35					
6	5086	.001	35					
7	5193	.002	70					
8	5194	.002	70					
9	5198	.002	70					
10	5208	.002	70					
11	5209	.004	135					
12	5210	.004	135					
13	5212	.002	70					
14	5217	.021	720					
15	5518	.002	70					
16	DXR 5526	.087	2980					
17								
18								
19								
20								
21								
22								
23								
24								

Lab16 R. Prezzacco

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-6

DATE: Nov 11/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5127	.002	70					
2	28	.002	70					
3	29	.001	35					
4	30	.001	35					
5	31	.001	35					
6	32	.001	35					
7	5134	.001	35					
8	35	.001	35					
9	36	.001	35					
10	37	.001	35					
11	38	.001	35					
12	39	.002	70					
13	40	.002	70					
14	41	.003	105					
15	42	.001	35					
16	43	.001	35					
17	44	.001	35					
18	5146	.001	35					
19	47	.001	35					
20	48	.004	135					
21	49	.001	35					
22	50	.001	35					
23	51	.001	35					
24	DXR 5152	.001	35					

Lab16 R. Prassacc

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

EXPLORATION 5600-1513

LM-94-6

DATE: Nov 8/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5153	.001	35					
2	54	.010	340					
3	55	.001	35					
4	56	.002	70					
5	57	.001	35					
6	58	.001	35					
7	59	.002	70					
8	60	<.001	<35					
9	61	.002	70					
10	62	.001	35					
11	63	.001	35					
12	5165	.004	135					
13	66	.003	105					
14	67	.001	35					
15	68	.002	70					
16	69	.002	70					
17	70	.001	35					
18	71	.002	70					
19	72	.001	35					
20	73	.002	70					
21	74	.008	275					
22	75	.002	70					
23	DXR 5176	.002	70					
24								

Lab16 R. Pezzutto

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-6

DATE: Nov 10/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5177	.002	70					
2	78	.007	240					
3	79	.001	35					
4	80	.005	170					
5	81	.012	410					
6	82	.004	135					
7	83	.001	35					
8	84	.002	70					
9	85	.001	35					
10	86	.001	35					
11	5188	.003	105					
12	89	.001	35					
13	90	.002	70					
14	91	.001	35					
15	92	.001	35					
16	93	.001	35					
17	94	.002	70					
18	95	.001	35					
19	DXR 5196	.001	35					
20								
21								
22								
3								
24								

Lab16 R. Pressacco

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-6

DATE: Nov 8/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5197	.002	70					
2	98	.004	135					
3	99	.003	105					
4	5200	.003	105					
5	01	.003	105					
6	02	.005	170					
7	03	.005	170					
8	04	.003	105					
9	05	.005	170					
10	06	.004	135					
11	07	.003	105					
12	08	.003	105					
13	09	.004	135					
14	10	.005	170					
15	11	.002	70					
16	12	.001	35					
17	13	.004	135					
18	14	.002	70					
19	15	.001	35					
20	16	.002	70					
21	DXR 5217	.004	135					
22								
23								
24								

Lab16 R. PRESSACCO

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

EXPLORATION 5600-1513

LM-94-6

DATE: Nov 7/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5218	.002	70					
2	19	.004	135					
3	20	.001	35					
4	5222	.001	35					
5	23	.001	35					
6	24	.001	35					
7	25	.001	35					
8	26	.001	35					
9	27	<.001	<35					
10	28	<.001	<35					
11	29	<.001	<35					
12	30	.002	70					
13	31	<.001	<35					
14	32	.001	35					
15	33	.001	35					
16	34	.001	35					
17	35	.001	35					
18	36	<.001	<35					
19	37	.001	35					
20	38	<.001	<35					
21	DXR 5239	.002	70					
22								
23								
24								

Lab16 R. PRESSACCO

Chief Chemist: [signature]

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-6

DATE: Nov 10/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5240	.001	35					
2	41	.008	275					
3	42	.001	35					
4	43	.002	70					
5	44	.007	240					
6	45	.001	35					
7	46	.002	70					
8	5248	.001	35					
9	49	.001	35					
10	5250	.003	105					
11	5501	.003	105					
12	02	.005	170					
13	03	.001	35					
14	04	.001	35					
15	05	.002	70					
16	5507	.007	240					
17	08	.002	70					
18	09	.002	70					
19	10	.002	70					
20	5512	.013	445					
21	DXR 5513	.001	35					
22								
23								
24								

Lab16 R. Prassaco

Chief Chemist: _____

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-6

DATE: Nov 7/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					RA oz/Ton
1	DXR 5515	.001	35					
2	16	.002	70					
3	17	.004	135					
4	18	.004	135					
5	19	.003	105					
6	20	<.001	<35					
7	21	.002	70					
8	22	<.001	<35					
9	23	.001	35					
10	24	<.001	<35					
11	25	<.001	<35					
12	26	.098	3360					.094
13	27	<.001	<35					
14	28	<.001	<35					
15	29	<.001	<35					
16	30	<.001	<35					
17	31	<.001	<35					
18	5532	<.001	<35					
19								
20								
21								
22								
23								
24								

Lab16 R. Pressacco

Chief Chemist: [signature]

ROYAL OAK ANALYTICAL LABORATORY

LM-94-5
LM-94-6

CERTIFICATE OF ANALYSIS

EXPLORATION 5600-1513

RE-ASSAYS FILM REJECTS

DATE: Nov 17/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5051	.001	35					
2	5052	.001	35					
3	5072	.014	480					
4	5075	.009	310					
5	5085	.001	35					
6	5086	.001	35					
7	5193	.002	70					
8	5194	.002	70					
9	5198	.002	70					
10	5208	.002	70					
11	5209	.004	135					
12	5210	.004	135					
13	5212	.002	70					
14	5217	.021	720					
15	5518	.002	70					
16	DXR 5526	.087	2980					
17								
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23								
24								

Lab16 R. Pearce

Chief Chemist: [signature]

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-6

DATE: Nov 11/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5533	.002	70					
2	34	.001	35					
3	35	.001	35					
4	36	.009	310					
5	37	<.001	<35					
6	LM94-6 38	.001	35					
7	39	<.001	<35					
8	40	.001	35					
9	41	.003	105					
10	42	.002	70					
11	LM94-7 43	.002	70					
12	44	.001	35					
13	45	.001	35					
14	46	.001	35					
15	47	.001	35					
16	48	.001	35					
17	49	.001	35					
18	DXR 5550	.001	35					
19								
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21								
22								
23								
24								

Lab16 R. Rossmee

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

EXPLORATION 5600-1513

LM-94-7

DATE: Nov 11/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5551	.002	70					
2	52	.042	1440					
3	53	.008	275					
4	54	.007	240					
5	55	.011	375					
6	56	.001	35					
7	57	.006	205					
8	58	.004	135					
9	59	.001	35					
10	60	.004	135					
11	61	.002	70					
12	62	.004	135					
13	63	.006	205					
14	64	.003	105					
15	65	.001	35					
16	66	.003	105					
17	67	.004	135					
18	DXR 5568	.002	70					
19								
20								
21								
22								
23								
24								

Lab16 R. Pressacco

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-7

DATE: Nov 17/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DxR 5564	.002	70					
2	70	.001	35					
3	71	.002	70					
4	72	.006	205					
5	73	.001	35					
6	74	.001	35					
7	75	.003	105					
8	76	.003	105					
9	77	.004	135					
10	78	.002	70					
11	79	.004	135					
12	80	.014	480					
13	81	.005	170					
14	82	.006	205					
15	83	.004	135					
16	84	.003	105					
17	85	.002	70					
18	DxR 5586	.006	205					
19								
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22								
23								
24								

Lab16 R. Prezzato

Chief Chemist: [signature]

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-7

DATE: Nov 17/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5587	.003	105					
2	88	.003	105					
3	89	.006	205					
4	90	.006	205					
5	91	.014	480					
6	92	.003	105					
7	5594	.002	70					
8	95	.001	35					
9	96	.001	35					
10	97	.001	35					
11	98	.001	35					
12	99	.003	105					
13	5600	.002	70					
14	01	.002	70					
15	02	.002	70					
16	03	.004	135					
17	04	.003	105					
18	DXR 5605	.003	105					
19								
20								
21								
22								
23								
24								

Lab16 R. Pressacco

Chief Chemist:

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-7

DATE: Nov 17/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5606	.003	105					
2	5608	.005	175					
3	09	.001	35					
4	10	.001	35					
5	11	.003	105					
6	12	.001	35					
7	13	.002	70					
8	5615	.003	105					
9	16	.002	70					
10	17	.001	35					
11	18	.001	35					
12	19	.001	35					
13	20	.004	135					
14	21	.001	35					
15	22	.001	35					
16	23	.001	35					
17	24	.002	70					
18	DXR 5625	.001	35					
19								
20								
21								
22								
23								
24								

Lab16 R. Pressacco

Chief Chemist: _____

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-7

DATE: Nov 11/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5626	.001	35					
2	5628	.001	35					
3	29	.002	70					
4	30	.001	35					
5	31	.002	70					
6	32	.001	35					
7	5635	.008	275					
8	36	.020	685					
9	37	.003	105	Supplemental				
10	38	.016	550	samples.				
11	39	.004	135					
12	40	.005	170					
13	DXR 5641	.001	35					
14								
15								
16								
17								
18								
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22								
23								
24								

Lab16 R. Pressacco

Chief Chemist: _____

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-8

DATE: Nov 17/94

	SAMPLE NUMBER	Au oz/ton	Au ppb					
1	DXR 5642	.001	35					
2	43	.001	35					
3	44	.001	35					
4	45	.001	35					
5	5647	.001	35					
6	48	.001	35					
7	49	.001	35					
8	50	.003	105					
9	5652	.003	105					
10	53	.009	310					
11	54	.002	70					
12	55	.001	35					
13	56	.001	35					
14	57	.001	35					
15	58	.004	135					
16	59	.004	135					
17	60	.002	70					
18	DXR 5661	.001	35					
19								
20								
21								
22								
23								
24								

Lab16 R. Pressacco

Chief Chemist: [signature]

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

LM-94-8

DATE: Nov 17/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DxR 5662	.001	35					
2	63	.004	135					
3	64	.002	70					
4	65	.001	35					
5	66	.001	35					
6	67	.001	35					
7	68	.001	35					
8	69	.001	35					
9	70	.003	105					
10	71	.001	35					
11	72	.001	35					
12	73	.001	35					
13	74	.001	35					
14	75	.001	35					
15	76	.001	35					
16	77	.001	35					
17	78	.001	35					
18	DxR 5679	.001	35					
19								
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21								
22								
23								
24								

Lab16 R. Pressacco

Chief Chemist: _____

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

EXPLORATION 5600-1513

LM-94-8 ?

DATE: Nov 17/94

	SAMPLE NUMBER	Au oz/Ton	Au ppb					
1	DXR 5680	.004	135					
2	81	.001	35					
3	82	.002	70					
4	83	.002	70					
5	84	.002	70					
6	5686	.002	70					
7	87	.001	35					
8	88	.002	70					
9	89	.006	205					
10	90	.001	35					
11	91	.004	135					
12	92	.014	480					
13	93	.001	35					
14	94	.001	35					
15	DXR 5696	.001	35					
16								
17								
18								
19								
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23								
24								

Lab16 R. Pressacco

Chief Chemist: [signature]

ROYAL OAK ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Exploration 5600-1513

Hole Number: LM-94-9
Date Assayed: 12/21/94

	SAMPLE NUMBER	COMMENT	Au-Oz/Ton	Au-PPB
1	C84402		0.001	35
2	C84403		0.001	35
3	C84404		0.001	35
4	C84405		0.001	35
5	C84406		0.001	35
6	C84407		0.003	105
7	BLANK	Blank	0.001	35
8	CONTROL	Control	0.106	3630
9				
10				
11				
12				
13				
14				
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16				
17				
18				
19				
20				
21				
22				
23				
24				

Geologist: R.PRESSACCO

Chief Chemist:

Exploration Copy

XRAL

LES LABORATOIRES XRAL LABORATORIES
UNE DIVISION DE / DIVSION OF SGS INC.
150, 13e RUE • ROUYN-NORANDA • QUÉBEC J9X 2H6
TÉL.: (819) 764-9108 FAX: (819) 764-4673

your ref: our ref: 1891/3625

CERTIFICAT D'ANALYSE/ASSAY CERTIFICATE 07-Dec-94

ROYAL OAK MINES INC.
P.O. BAG 2010
TIMMINS, ONTARIO
P4N 7X7

ATTENTION: RENO PRESSACCO

Date soumis/ Submitted: November 10, 1994

No. of samples: 22 No. of pages: 2

ELEMENTS	METHOD	DETECTION LIMIT
WRMAJ %	XRF/WR	0.01
WRMIN PPM	XRF/WR	10.
BA PPM	XRF/WR	50.

Certifie par/Certified by:

J.J. Landers Gerant/Manager

	SAMPLE	NA2O % XRF-F 0.01	MGO % XRF-F 0.01	AL2O3 % XRF-F 0.01	SIO2 % XRF-F 0.01	P2O5 % XRF-F 0.01	K2O % XRF-F 0.01	CAO % XRF-F 0.01	TIO2 % XRF-F 0.001	CR2O3 % XRF-F 0.01
	5014	3.87	4.12	17.2	55.2	0.23	1.63	4.67	0.850	<.01
	5033	3.52	3.76	17.5	56.3	0.21	2.51	3.38	0.910	0.01
	5058	3.87	4.28	15.2	52.0	0.36	1.83	6.39	1.05	0.01
	5067	4.00	5.04	15.5	51.6	0.29	0.81	7.48	1.12	<.01
	5094	3.81	3.75	16.0	56.4	0.61	2.34	5.90	1.31	0.01
	5133	1.70	3.14	14.7	48.0	0.46	5.28	7.57	0.690	<.01
	5145	0.19	19.3	13.2	37.6	0.04	0.20	4.13	0.230	0.03
	5164	5.60	2.08	16.8	61.8	0.25	1.31	4.45	0.670	<.01
	5187	2.41	2.61	17.5	57.5	0.26	2.92	4.73	0.720	<.01
	5221	4.43	3.15	17.9	52.9	0.26	0.92	6.76	0.730	<.01
	5247	4.38	1.73	17.6	59.7	0.19	1.00	5.93	0.770	<.01
	5506	2.29	1.78	16.7	60.8	0.25	2.74	5.33	0.670	<.01
	5511	4.66	2.46	15.8	56.5	0.23	2.18	5.30	0.680	<.01
	5514	3.54	2.67	16.7	56.7	0.25	1.32	6.53	0.780	<.01
	5533	2.72	2.15	16.7	56.9	0.25	2.69	5.43	0.740	<.01
	5593	2.92	2.27	17.7	59.0	0.27	1.54	6.52	0.760	<.01
	5607	3.43	1.90	18.1	58.6	0.27	2.10	6.10	0.770	<.01
	5614	3.82	2.12	17.3	60.2	0.26	1.01	6.64	0.730	<.01
	5646	3.22	6.63	12.0	45.2	0.34	0.46	9.37	0.740	0.02
	5651	2.48	2.62	14.1	50.3	0.19	0.74	9.20	0.700	<.01
	5685	3.25	1.60	15.9	58.2	0.23	1.43	6.97	0.790	<.01
	5695	3.93	1.01	16.8	59.2	0.24	1.81	6.14	0.930	<.01
D	5014	3.90	4.12	17.3	55.4	0.22	1.67	4.69	0.850	<.01
D	5514	3.54	2.64	16.7	56.7	0.24	1.30	6.56	0.790	<.01

	SAMPLE	MNO % XRF-F 0.01	FE2O3 % XRF-F 0.01	RB PPM XRF-F 10	SR PPM XRF-F 10	Y PPM XRF-F 10	ZR PPM XRF-F 10	NB PPM XRF-F 10	BA PPM XRF-F 50	LOI % XRF-F 0.01
	5014	0.08	7.54	87	253	19	138	<10	274	4.85
	5033	0.06	7.31	119	139	15	160	<10	436	4.50
	5058	0.11	8.51	115	214	18	148	<10	281	6.65
	5067	0.20	11.8	24	373	21	140	<10	233	2.10
	5094	0.14	8.34	104	431	24	158	<10	467	1.50
	5133	0.13	7.55	176	179	16	123	<10	466	10.7
	5145	0.13	12.2	<10	136	<10	24	<10	87	12.8
	5164	0.04	4.10	59	294	19	157	<10	184	2.95
	5187	0.04	6.06	151	154	17	166	<10	315	5.50
	5221	0.12	9.49	48	397	20	170	<10	155	3.35
	5247	0.11	7.36	42	323	15	126	<10	177	1.65
	5506	0.08	7.12	121	426	17	160	<10	476	2.00
	5511	0.13	7.99	96	144	16	147	<10	222	4.15
	5514	0.17	9.44	58	424	18	160	<10	182	2.20
	5533	0.08	6.81	116	184	19	157	<10	292	5.75
	5593	0.06	6.72	89	498	20	166	<10	203	2.25
	5607	0.05	6.18	118	371	16	169	10	283	2.10
	5614	0.09	6.30	56	480	14	163	<10	235	1.25
	5646	0.19	9.11	13	282	15	96	<10	370	12.7
	5651	0.23	10.8	13	236	10	118	<10	204	9.00
	5685	0.17	5.33	39	296	20	133	<10	304	6.25
	5695	0.14	4.00	54	286	22	161	<10	405	6.05
D	5014	0.08	7.50	81	250	16	139	<10	289	4.60
D	5514	0.17	9.45	59	435	15	161	<10	172	2.10

SAMPLE	SUM % XRF-F 0.1
5014	100.3
5033	100.1
5058	100.4
5067	100.0
5094	100.2
5133	100.0
5145	100.1
5164	100.1
5187	100.3
5221	100.1
5247	100.5
5506	99.9
5511	100.2
5514	100.4
5533	100.3

	SAMPLE	SUM % XRF-F 0.1
	5593	100.1
	5607	99.7
	5614	99.8
	5646	100.1
	5651	100.4
	5685	100.2
	5695	100.4
D	5014	100.4
D	5514	100.3

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ont.
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS
REPORT 30599

TO: ROYAL OAK MINES INC.
ATTN: PAUL COAD
P.O. BAG 2010
TIMMINS, ONTARIO
P4N 7X7

CUSTOMER No. 2226

DATE SUBMITTED
22-Nov-94

WORKORDER 1996-FL

TOTAL PAGES 32

274 PULPS

	METHOD	DETECTION LIMIT	METHOD CODE		METHOD	DETECTION LIMIT	METHOD CODE
BE PPM	ICP	.5	80-1	ZN PPM	ICP	.5	80-1
NA %	ICP	.01	80-1	AS PPM	ICP	3.	80-1
MG %	ICP	.01	80-1	SR PPM	ICP	.5	80-1
AL %	ICP	.01	80-1	Y PPM	ICP	.1	80-1
P %	ICP	.01	80-1	ZR PPM	ICP	.5	80-1
K %	ICP	.01	80-1	MO PPM	ICP	1.	80-1
CA %	ICP	.01	80-1	AG PPM	ICP	.1	80-1
SC PPM	ICP	.5	80-1	CD PPM	ICP	1.	80-1
TI %	ICP	.01	80-1	SN PPM	ICP	10.	80-1
V PPM	ICP	2.	80-1	SB PPM	ICP	5.	80-1
CR PPM	ICP	1.	80-1	BA PPM	ICP	1.	80-1
MN PPM	ICP	2.	80-1	LA PPM	ICP	.5	80-1
FE %	ICP	.01	80-1	W PPM	ICP	10.	80-1
CO PPM	ICP	1.	80-1	PB PPM	ICP	2.	80-1
NI PPM	ICP	1.	80-1	BI PPM	ICP	3.	80-1
CU PPM	ICP	.5	80-1				

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS IN 90 DAYS ***
AND REJECTS IN 30 DAYS FROM THE DATE OF THIS REPORT

DATE 12-DEC-94

CERTIFIED BY

Jean H. Opdebeeck, General Manager

XRAL

12-DEC-94 REPORT 30599 WORKORDER 1996-FL

SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
DXR5000	1.1	.59	1.27	7.73	.09	3.71	4.46	17.0
DXR5001	.8	2.10	1.06	7.57	.07	2.87	3.96	16.0
DXR5002	.9	1.30	1.00	7.22	.07	2.77	4.08	15.6
DXR5003	.9	1.65	1.18	7.49	.07	2.66	4.23	18.0
DXR5005	1.2	2.76	1.83	7.49	.13	1.62	4.53	18.3
DXR5006	1.4	1.98	2.56	6.36	.17	1.62	4.90	18.4
DXR5007	1.0	.52	1.68	5.93	.08	2.30	4.73	12.9
DXR5008	.8	2.44	.86	7.36	.07	1.89	3.73	15.4
DXR5009	1.1	2.86	.85	7.69	.07	2.09	3.68	18.0
DXR5010	1.4	3.06	2.58	6.61	.18	.36	4.41	18.6
DXR5011	1.6	3.16	2.52	6.50	.17	.26	4.59	18.2
DXR5012	1.0	3.35	.79	7.00	.07	1.58	3.32	15.7
DXR5013	.9	2.24	1.87	7.62	.08	1.68	3.70	14.6
DXR5015	.9	3.01	1.61	7.69	.09	1.27	3.05	15.9
DXR5016	.9	3.26	2.05	8.01	.10	.81	3.15	16.8
DXR5017	.7	2.89	1.88	7.34	.09	.91	3.07	15.6
DXR5018	.8	1.99	2.12	7.45	.09	1.57	3.45	15.8
DXR5019	.9	1.31	1.88	7.03	.08	2.22	3.74	14.6
DXR5020	.9	1.06	1.63	6.89	.07	2.65	3.92	11.8
DXR5021	.9	1.03	1.56	6.35	.06	2.43	3.09	10.9
DXR5022	1.0	.95	1.62	7.80	.07	3.08	3.76	12.8
DXR5023	2.2	.68	1.24	7.13	.06	2.02	4.02	10.4
DXR5024	.8	1.36	1.71	7.50	.08	2.30	3.90	15.7
DXR5025	.8	2.64	1.65	7.80	.09	.96	4.41	16.0
DXR5026	.9	1.77	1.75	7.36	.09	1.78	4.33	17.1
DXR5027	1.0	1.20	1.61	7.43	.10	2.90	3.98	17.8
DXR5028	.9	1.33	1.57	7.50	.09	2.46	3.73	15.6
DXR5029	.9	1.66	1.68	7.28	.09	1.91	3.93	14.7
DXR5030	.7	1.43	1.56	6.38	.07	1.58	4.80	17.4
DXR5031	.9	2.09	1.73	7.87	.09	2.39	2.95	15.4
DXR5032	.9	1.92	1.59	7.64	.08	2.25	3.58	14.8
DXR5034	.9	2.79	1.39	7.10	.09	1.23	3.11	17.8
DXR5035	1.0	3.20	1.05	7.53	.10	1.62	3.18	16.2
DXR5036	1.0	3.32	1.41	7.66	.15	.99	3.31	18.8
DXR5037	1.1	2.72	1.67	7.12	.17	1.20	3.42	16.8
DXR5038	1.0	3.21	1.51	6.67	.16	.67	3.95	17.3
DXR5039	1.0	1.99	1.77	7.27	.12	1.24	5.12	16.6
DXR5040	1.0	1.86	1.66	7.01	.13	1.96	4.37	19.4
DXR5041	1.1	1.74	1.76	7.32	.13	2.46	4.14	20.7
DXR5042	1.1	1.51	1.87	5.82	.11	2.32	4.08	17.2

XRAL

12-DEC-94 REPORT 30599 WORKORDER 1996-FL

SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
DXR5043	1.2	1.53	2.12	5.49	.13	1.89	4.10	16.9
DXR5044	2.0	2.31	2.82	6.69	.17	1.94	4.81	20.6
DXR5045	1.0	2.96	1.75	6.45	.12	.99	3.49	18.6
DXR5046	1.1	1.31	1.72	6.49	.14	2.15	4.68	17.0
DXR5047	.9	2.80	1.82	6.82	.16	1.09	3.95	15.7
DXR5048	1.2	2.72	2.07	7.68	.17	1.11	5.15	21.1
DXR5049	1.9	2.25	2.28	7.08	.17	2.43	4.08	14.2
DXR5050	1.8	1.12	2.04	6.21	.16	2.99	4.78	11.2
DXR5051	.6	.14	.55	1.30	.05	.40	1.07	3.4
DXR5052	.5	.13	1.41	1.18	.06	.30	3.53	5.1
DXR5053	2.1	.42	2.61	6.90	.20	3.63	5.88	13.8
DXR5054	1.7	2.22	2.93	6.98	.18	2.28	5.04	17.9
DXR5055	1.3	3.43	2.64	7.78	.18	1.07	4.62	20.8
DXR5056	1.7	2.67	3.16	7.18	.20	2.23	4.98	21.8
DXR5057	1.1	3.08	2.49	7.31	.20	1.40	5.36	18.3
DXR5059	1.1	1.97	1.97	6.97	.17	1.86	5.22	18.7
DXR5060	1.0	2.71	2.01	6.91	.16	1.17	4.62	17.3
DXR5061	1.0	1.94	1.94	7.67	.19	2.41	4.23	19.8
DXR5062	1.1	2.07	1.66	7.12	.16	1.49	5.50	16.8
DXR5063	.8	3.61	1.81	7.29	.18	.86	4.90	17.2
DXR5064	.6	1.75	1.11	4.07	.09	.69	2.22	11.3
DXR5065	1.5	2.50	3.01	7.13	.17	1.26	7.03	22.0
DXR5066	.8	2.41	2.22	7.31	.15	1.12	5.75	19.9
DXR5068	.9	2.45	2.32	7.62	.14	1.04	4.84	22.8
DXR5069	.8	2.61	2.27	7.53	.14	1.04	4.58	24.4
DXR5070	1.1	2.96	2.51	8.36	.15	1.13	4.75	24.1
DXR5071	1.7	2.64	2.10	7.74	.13	1.02	4.66	19.2
DXR5072	.7	1.53	2.39	6.43	.12	.26	8.35	26.9
DXR5073	.8	3.42	2.56	7.69	.14	.48	5.10	25.7
DXR5074	.9	2.85	2.63	7.70	.14	.83	4.87	25.8
DXR5075	1.0	2.87	2.51	7.47	.14	1.08	4.09	24.2
DXR5076	.7	2.99	2.64	8.11	.15	.93	4.52	26.4
DXR5077	1.1	.82	1.28	8.07	.14	3.62	5.62	20.6
DXR5078	1.1	.58	1.19	8.03	.14	3.92	5.83	17.4
DXR5079	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
DXR5080	.8	.55	1.87	7.51	.14	2.67	6.33	23.8
DXR5081	.5	2.22	1.38	6.04	.10	1.72	6.39	17.7
DXR5082	.6	2.55	1.75	6.69	.09	1.92	6.92	18.2
DXR5083	.8	1.74	2.23	6.73	.13	2.31	6.88	23.3
DXR5084	1.0	2.45	1.66	8.33	.15	3.04	5.46	22.0

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

XRAL

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SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
DXR5085	<.5	.38	2.61	1.02	.06	.17	10.6	12.7
DXR5086	.8	1.20	1.65	4.53	.08	1.08	6.31	13.1
DXR5087	1.0	1.70	1.86	7.58	.16	2.85	5.50	20.6
DXR5088	.9	.49	1.34	4.76	.12	2.01	3.27	14.0
DXR5089	.8	2.45	1.95	7.50	.15	1.60	4.38	21.7
DXR5090	.7	1.98	1.80	6.79	.14	2.18	4.24	18.6
DXR5091	.9	.34	2.18	6.50	.13	2.90	7.07	18.7
DXR5092	1.0	.53	2.02	7.61	.16	3.30	6.43	23.4
DXR5093	.8	2.84	2.15	7.87	.15	.95	4.11	22.1
DXR5095	.7	3.63	2.13	7.87	.16	.89	4.27	21.6
DXR5096	.6	2.98	2.52	7.61	.12	.51	4.69	20.8
DXR5097	1.3	3.66	2.14	7.94	.13	.84	3.83	18.6
DXR5098	<.5	3.65	2.73	8.04	.12	.74	4.17	21.3
DXR5099	1.0	3.00	1.65	8.08	.12	.85	6.57	20.6
DXR5100	1.1	3.35	2.40	7.82	.12	.49	4.69	22.4
DXR5101	.7	2.62	2.52	7.35	.11	.61	4.68	20.1
DXR5102	1.3	3.35	1.96	7.78	.12	.85	4.32	16.8
DXR5103	1.3	3.29	2.18	7.41	.11	.95	4.68	19.0
DXR5104	1.2	3.17	2.04	8.10	.12	1.06	4.61	21.9
DXR5105	1.0	2.39	3.81	6.59	.17	.52	6.40	25.7
DXR5106	1.2	2.08	2.82	6.15	.19	.87	6.06	21.8
DXR5107	1.2	1.95	3.27	6.52	.17	.93	6.29	22.6
DXR5108	.7	2.25	3.62	6.54	.18	.47	5.88	25.8
DXR5109	.6	1.25	2.64	5.04	.14	.65	7.34	24.1
DXR5110	.8	2.46	1.65	7.87	.12	.46	5.49	22.3
DXR5111	.9	2.48	1.92	8.04	.13	.65	5.67	22.5
DXR5112	.8	2.22	1.72	7.48	.15	.76	5.51	22.8
DXR5113	.9	2.80	1.40	8.19	.18	.51	5.61	22.7
DXR5114	1.4	3.39	1.73	7.98	.15	.72	5.51	17.3
DXR5115	1.0	2.95	1.84	8.36	.20	1.19	4.36	20.8
DXR5116	1.0	2.93	2.04	8.12	.19	1.00	3.95	21.0
DXR5117	.9	3.62	1.76	7.51	.19	.79	4.60	19.6
DXR5118	1.0	3.28	1.97	8.22	.19	1.14	4.40	21.9
DXR5119	1.0	3.06	2.43	7.23	.18	.96	4.96	20.2
DXR5120	1.1	2.67	2.81	7.41	.19	1.04	5.76	21.7
DXR5121	1.0	2.18	2.47	7.31	.17	1.49	5.24	19.6
DXR5122	1.4	1.82	2.61	7.22	.14	2.21	5.18	17.9
DXR5123	1.8	2.79	2.08	7.01	.16	1.76	4.40	12.8
DXR5124	2.0	2.35	2.35	7.49	.18	2.74	4.19	13.4
DXR5125	1.5	1.94	2.10	6.68	.16	2.56	4.16	12.0

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SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
DXR5127	2.1	.28	3.29	6.15	.02	3.57	7.90	16.3
DXR5128	2.2	.99	1.93	6.36	.18	3.38	4.50	15.8
DXR5129	2.2	1.50	1.71	6.79	.19	3.87	4.10	18.0
DXR5130	1.7	.81	1.51	6.54	.19	2.72	4.15	15.5
DXR5131	2.0	.61	1.87	6.72	.19	2.93	4.92	16.2
DXR5132	1.6	.43	1.36	6.50	.19	3.65	4.13	15.7
DXR5134	1.4	.49	1.32	6.78	.20	5.44	4.20	15.9
DXR5135	2.0	1.35	2.10	6.64	.19	4.53	4.51	15.5
DXR5136	1.9	1.07	2.01	6.56	.19	4.83	4.10	15.1
DXR5137	1.7	1.38	1.79	6.16	.18	4.59	4.38	15.2
DXR5138	1.9	1.47	2.29	6.21	.16	3.50	4.69	16.4
DXR5139	2.2	.05	3.58	4.96	.10	3.39	7.12	12.2
DXR5140	1.4	.24	4.23	3.90	.11	2.45	9.17	9.3
DXR5141	1.5	.05	6.28	3.12	.01	1.55	9.16	5.8
DXR5142	1.3	1.65	4.03	4.68	.13	2.14	8.14	13.9
DXR5143	.9	.15	9.10	5.39	.01	.67	4.93	6.8
DXR5144	<.5	.09	10.7	5.95	.01	.13	3.71	7.9
DXR5146	.5	.30	9.66	5.76	.03	.20	3.65	8.6
DXR5147	1.2	2.94	3.27	7.40	.13	2.48	3.97	18.6
DXR5148	.7	.66	7.82	7.42	.01	1.87	3.66	7.9
DXR5149	.8	1.33	2.23	7.06	.04	3.74	5.39	31.5
DXR5150	.8	.81	2.36	7.69	.04	3.22	4.89	36.0
DXR5151	.5	.96	1.55	5.04	.03	1.44	12.1	20.6
DXR5152	<.5	3.20	2.05	7.23	.04	.65	4.30	33.4
DXR5153	.6	2.77	2.01	7.14	.04	.47	7.12	32.6
DXR5154	.7	1.20	1.46	6.00	.05	1.54	1.89	16.9
DXR5155	1.0	4.06	1.02	9.17	.12	2.06	3.75	9.9
DXR5156	1.0	2.89	.41	8.03	.10	2.76	3.04	8.4
DXR5157	1.0	2.88	.50	8.37	.10	2.78	3.23	9.7
DXR5158	.9	2.28	.47	7.63	.10	2.98	3.28	13.1
DXR5159	1.0	2.75	.45	8.11	.10	2.85	3.10	8.6
DXR5160	.9	2.98	.77	7.76	.10	2.20	2.63	7.4
DXR5161	1.0	3.50	.92	8.09	.11	1.86	3.26	8.1
DXR5162	1.0	3.40	.87	8.10	.10	1.65	3.15	8.1
DXR5163	1.0	3.39	.81	7.77	.10	1.47	2.98	7.6
DXR5165	1.0	3.40	.94	7.95	.10	1.50	3.63	7.9
DXR5166	1.3	3.85	.95	8.53	.12	1.60	3.33	8.3
DXR5167	.9	2.42	.75	7.26	.09	2.16	3.47	7.5
DXR5168	1.1	2.37	1.08	8.24	.11	2.66	5.23	8.4
DXR5169	1.1	2.77	.73	8.76	.12	3.21	2.81	7.0

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SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
DXR5170	.7	4.45	.24	8.66	.11	2.11	2.83	5.1
DXR5171	.8	3.99	.25	8.31	.11	2.21	2.88	5.3
DXR5172	.9	3.02	.31	8.08	.10	2.61	3.14	5.4
DXR5173	1.0	3.12	.33	8.35	.11	2.78	2.59	6.9
DXR5174	.8	3.36	.44	7.29	.10	1.70	2.97	8.3
DXR5175	.9	2.13	1.05	7.47	.10	1.80	4.69	11.2
DXR5176	1.3	.26	1.28	7.74	.10	3.53	4.61	9.7
DXR5177	1.1	.58	1.15	7.48	.10	3.40	3.77	7.3
DXR5178	1.0	.49	.60	8.08	.11	3.77	2.99	8.3
DXR5179	1.1	.73	1.10	7.92	.10	3.68	4.18	8.2
DXR5180	1.3	.78	1.20	8.09	.10	3.60	4.17	9.0
DXR5181	1.1	1.22	.94	7.43	.10	2.75	4.06	8.3
DXR5182	1.0	3.64	1.29	8.42	.11	1.74	3.23	9.5
DXR5183	1.0	2.43	1.37	7.70	.10	1.63	3.56	10.3
DXR5184	1.1	.27	1.07	7.57	.10	3.02	5.30	9.8
DXR5185	.9	2.02	1.20	8.13	.10	2.24	3.63	9.3
DXR5186	1.0	2.87	1.32	8.46	.11	1.56	3.42	10.6
DXR5188	1.0	2.66	1.22	8.09	.10	1.61	3.71	8.8
DXR5189	1.1	2.39	1.06	8.36	.11	2.07	3.69	8.9
DXR5190	1.0	1.89	1.13	7.77	.10	1.96	4.16	9.0
DXR5191	1.0	2.03	1.36	7.82	.10	1.70	3.53	9.0
DXR5192	.9	2.58	1.01	7.48	.10	1.65	4.19	8.1
DXR5193	1.0	2.44	1.01	7.67	.11	2.14	3.92	8.1
DXR5194	1.1	1.64	.95	7.82	.11	2.53	2.88	9.1
DXR5195	.9	2.54	.90	8.01	.11	2.18	3.19	9.0
DXR5196	1.1	2.02	1.08	7.28	.10	2.34	3.50	8.4
DXR5197	1.3	1.64	.98	7.81	.11	2.73	3.38	9.6
DXR5198	.8	4.14	.81	7.30	.09	.76	3.74	10.0
DXR5199	1.1	3.28	1.11	7.49	.12	1.40	3.89	11.5
DXR5200	1.1	2.89	1.17	8.23	.11	1.92	3.19	9.8
DXR5201	1.1	2.28	1.26	7.34	.10	1.94	2.83	9.1
DXR5202	1.0	2.27	1.24	7.88	.10	1.94	2.69	9.4
DXR5203	1.0	2.51	1.20	7.55	.11	1.64	4.71	9.6
DXR5204	1.0	2.59	1.10	7.37	.10	1.75	4.00	9.9
DXR5205	1.2	1.90	1.04	8.53	.11	2.83	4.18	8.9
DXR5206	1.2	2.44	1.03	8.44	.11	2.46	3.58	9.2
DXR5207	1.6	.91	.85	8.38	.11	3.53	3.47	8.5
DXR5208	1.5	1.72	1.21	8.28	.11	3.05	4.09	8.3
DXR5209	1.6	.91	1.55	7.70	.13	3.13	4.95	10.6
DXR5210	1.7	.12	1.56	7.47	.10	3.53	4.90	9.0

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SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
DXR5211	1.5	.16	1.17	7.40	.10	3.32	3.15	7.7
DXR5212	1.4	.56	1.10	8.09	.10	3.13	4.32	9.7
DXR5213	1.2	1.79	1.10	8.35	.10	2.77	4.88	10.1
DXR5214	1.1	1.45	1.03	7.86	.10	2.70	4.14	9.4
DXR5215	1.0	2.43	.94	7.63	.10	2.14	4.79	8.8
DXR5216	1.0	2.59	1.17	7.80	.10	2.05	3.32	8.7
DXR5217	1.0	3.40	1.22	8.01	.11	1.51	3.24	9.6
DXR5218	1.1	2.88	1.31	8.35	.11	1.37	3.74	10.5
DXR5219	1.1	2.88	1.25	8.05	.10	1.44	3.74	9.8
DXR5220	1.1	2.86	1.06	7.64	.12	1.46	4.33	8.1
DXR5222	1.1	2.69	.95	7.76	.11	1.52	3.95	8.2
DXR5223	1.0	2.14	.94	7.30	.10	1.64	5.23	7.7
DXR5224	1.0	2.90	1.19	7.97	.11	1.16	3.97	8.5
DXR5225	1.1	2.35	.81	7.86	.10	1.75	4.14	10.6
DXR5226	.9	3.28	.99	8.50	.08	.90	3.61	15.6
DXR5227	.8	3.01	.91	7.88	.07	1.18	5.83	15.1
DXR5228	.9	2.31	1.01	8.06	.07	1.71	4.90	14.9
DXR5229	.8	2.27	1.00	6.76	.07	1.54	4.14	13.2
DXR5230	.9	.76	.84	7.38	.07	2.12	3.89	13.6
DXR5231	1.0	1.67	.99	8.11	.08	2.00	3.69	15.2
DXR5232	1.1	.94	1.39	7.59	.07	2.17	4.58	14.2
DXR5233	.8	2.58	1.04	8.14	.07	1.27	5.25	14.9
DXR5234	.9	3.35	1.09	7.72	.07	.93	4.21	13.4
DXR5235	.9	2.97	1.14	8.21	.07	.81	4.47	15.3
DXR5236	.9	2.59	1.02	8.04	.08	1.45	3.44	14.4
DXR5237	.9	2.96	1.11	8.38	.07	1.08	3.42	15.5
DXR5238	.8	2.72	1.13	7.96	.07	1.23	4.11	14.9
DXR5239	1.0	2.95	1.07	8.54	.08	1.50	3.47	15.4
DXR5240	.9	2.42	1.19	7.78	.07	1.08	3.80	14.2
DXR5241	.9	1.56	1.17	8.19	.08	1.52	4.90	15.1
DXR5242	1.2	.81	.96	9.29	.09	3.08	4.93	15.4
DXR5243	1.0	1.10	1.41	8.89	.08	2.32	5.78	16.9
DXR5244	.9	3.00	1.26	8.59	.08	1.20	4.64	15.6
DXR5245	.8	2.52	1.19	7.70	.07	1.27	4.23	14.1
DXR5246	.8	3.02	1.18	8.36	.08	1.12	4.72	15.9
DXR5248	1.2	2.36	3.19	7.15	.16	.46	6.96	25.1
DXR5249	1.4	3.63	1.79	8.41	.11	1.33	5.64	18.4
DXR5250	1.0	3.36	.65	8.27	.07	1.59	3.50	14.8
DXR5501	.9	2.95	.72	8.80	.08	1.86	4.10	15.4
DXR5502	1.0	2.65	.85	8.94	.08	1.69	4.30	15.8

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SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
DXR5503	.8	2.92	.66	8.66	.08	1.90	4.30	14.6
DXR5504	.8	2.48	.54	8.06	.07	1.82	4.02	13.9
DXR5505	1.0	1.52	2.03	6.91	.10	1.52	7.23	13.9
DXR5507	1.3	2.70	1.11	7.75	.10	1.70	4.13	9.1
DXR5508	1.1	2.51	1.38	7.40	.11	1.75	3.95	9.4
DXR5509	1.1	2.64	1.22	7.40	.09	1.19	5.05	9.2
DXR5510	1.0	3.17	1.38	8.10	.10	1.36	4.68	11.4
DXR5512	1.3	2.78	1.26	7.85	.10	2.35	4.99	10.7
DXR5513	1.3	2.48	1.32	8.07	.11	2.07	4.15	10.5
DXR5515	1.0	3.08	1.22	7.96	.11	1.70	3.86	10.3
DXR5516	1.0	3.14	1.23	7.29	.11	.90	4.26	10.3
DXR5517	1.4	1.22	1.13	8.08	.10	.43	9.23	9.4
DXR5518	1.2	1.11	1.04	6.61	.09	.37	7.71	7.4
DXR5519	.9	2.77	1.23	8.03	.10	.71	5.68	9.3
DXR5520	1.0	2.40	1.22	7.29	.10	.72	6.31	9.0
DXR5521	1.0	2.93	1.34	7.18	.11	1.26	5.05	10.6
DXR5522	1.0	3.07	1.34	7.96	.11	1.14	5.07	10.1
DXR5523	.9	2.77	1.39	7.29	.10	.79	5.81	9.4
DXR5524	1.1	2.48	1.37	7.36	.11	2.32	3.67	10.8
DXR5525	1.0	3.70	1.10	8.15	.11	1.15	4.77	10.2
DXR5526	.8	1.87	1.00	7.56	.09	.45	9.50	9.6
DXR5527	.8	2.38	2.35	8.43	.11	.98	4.79	11.7
DXR5528	.9	2.00	2.09	7.77	.09	1.26	4.53	15.1
DXR5529	1.6	2.45	3.70	7.31	.20	2.05	4.91	13.9
DXR5530	1.7	2.29	3.79	7.03	.19	1.96	4.65	13.7
DXR5531	1.3	2.66	1.86	8.41	.12	.53	5.70	18.1
DXR5532	1.0	3.14	1.28	8.08	.07	1.68	3.34	16.4
DXR5533	.9	3.94	1.44	8.75	.08	1.44	3.49	18.0
DXR5534	1.3	2.93	1.69	8.30	.11	2.16	3.19	20.7
DXR5535	1.3	3.46	1.57	7.88	.12	2.13	2.82	19.9
DXR5536	1.4	2.98	1.53	7.93	.08	2.37	3.08	16.0
DXR5537	1.3	2.73	1.81	7.45	.09	2.03	5.87	18.8
DXR5538	1.3	2.62	1.52	7.19	.09	2.18	5.04	17.0
DXR5539	1.8	1.96	1.73	7.78	.13	3.26	3.83	18.3
DXR5540	1.6	3.11	2.00	7.25	.11	2.42	3.93	11.9
D DXR5000	1.1	.56	1.19	7.30	.09	3.53	4.30	15.4
D DXR5013	.9	2.39	2.11	8.18	.09	1.80	4.17	16.1
D DXR5026	1.0	1.73	1.73	7.51	.08	1.79	4.29	16.8
D DXR5039	1.1	2.29	2.00	7.74	.14	1.46	5.77	18.7
D DXR5049	1.6	2.07	2.07	6.77	.15	2.25	3.69	12.8

D - QUALITY CONTROL DUPLICATE

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SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
D DXR5062	1.2	2.29	1.83	7.48	.18	1.70	6.07	17.8
D DXR5075	1.2	2.92	2.54	7.88	.15	1.13	4.17	25.1
D DXR5087	1.2	1.80	1.96	8.28	.17	3.28	5.78	21.8
D DXR5098	.5	3.95	2.91	8.58	.13	.82	4.44	23.2
D DXR5110	.9	2.75	1.78	8.32	.13	.52	5.88	24.9
D DXR5122	1.6	1.92	2.65	7.58	.14	2.29	5.24	18.8
D DXR5136	2.2	1.19	2.18	6.92	.20	5.35	4.39	17.1
D DXR5147	1.2	2.97	3.34	7.48	.14	2.54	4.07	19.1
D DXR5159	1.1	2.84	.46	8.12	.11	2.93	3.18	8.5
D DXR5172	1.0	3.24	.34	8.73	.12	2.82	3.38	5.9
D DXR5184	1.2	.28	1.13	7.95	.10	3.14	5.72	10.1
D DXR5195	1.0	2.58	.91	8.06	.11	2.24	3.21	9.1
D DXR5207	1.5	.89	.83	7.45	.11	3.48	3.23	8.4
D DXR5219	1.1	3.01	1.29	8.14	.11	1.51	3.84	10.3
D DXR5232	1.2	.95	1.41	7.64	.07	2.20	4.68	14.1
D DXR5242	1.2	.79	.94	8.89	.08	3.07	4.87	15.2
D DXR5505	1.1	1.55	2.08	7.01	.11	1.56	7.43	14.2
D DXR5520	.9	2.44	1.23	7.36	.10	.73	6.35	9.2
D DXR5532	.9	3.27	1.32	8.06	.08	1.73	3.39	16.9

D - QUALITY CONTROL DUPLICATE

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
DXR5000	.33	160	158	769	4.61	13	16	61.4
DXR5001	.43	161	175	697	4.07	14	12	12.5
DXR5002	.38	149	133	757	4.61	15	14	65.3
DXR5003	.37	160	86	799	4.50	12	14	29.0
DXR5005	.36	169	81	823	5.13	14	19	125
DXR5006	.32	167	89	982	4.75	17	27	7.4
DXR5007	.30	137	228	748	4.35	15	17	12.3
DXR5008	.35	139	77	509	4.12	15	10	65.6
DXR5009	.39	160	129	460	3.97	12	12	41.2
DXR5010	.30	170	78	669	5.37	25	28	3.7
DXR5011	.29	166	60	655	4.91	22	28	3.6
DXR5012	.38	153	191	400	3.63	10	14	8.7
DXR5013	.40	136	122	510	4.10	16	32	139
DXR5015	.46	154	189	406	3.85	16	34	130
DXR5016	.51	162	227	482	4.80	21	37	35.0
DXR5017	.44	148	251	455	4.42	21	33	117
DXR5018	.34	147	163	578	4.43	18	30	62.3
DXR5019	.33	126	176	648	3.89	17	34	40.2
DXR5020	.36	112	173	599	3.67	24	42	21.5
DXR5021	.28	97	117	582	3.38	15	33	6.5
DXR5022	.34	121	162	628	3.64	14	33	5.4
DXR5023	.30	140	350	521	3.56	17	37	41.0
DXR5024	.39	133	170	565	4.21	15	32	37.7
DXR5025	.43	159	305	622	4.76	17	27	11.2
DXR5026	.38	151	181	647	5.37	34	38	110
DXR5027	.44	154	127	601	4.61	23	39	89.3
DXR5028	.40	147	201	576	6.11	28	38	110
DXR5029	.35	140	217	612	6.52	29	38	119
DXR5030	.33	131	148	724	4.51	21	30	122
DXR5031	.41	154	148	497	3.96	18	34	57.5
DXR5032	.41	145	124	550	3.78	15	39	12.1
DXR5034	.43	142	162	518	4.85	22	53	474
DXR5035	.51	157	328	476	5.09	27	55	535
DXR5036	.71	170	283	567	5.38	29	68	242
DXR5037	.70	173	343	652	5.48	29	77	123
DXR5038	.67	158	237	725	4.81	21	65	27.5
DXR5039	.62	160	120	1230	6.83	30	55	91.6
DXR5040	.57	170	134	964	5.69	38	66	119
DXR5041	.54	185	122	820	5.76	29	60	257
DXR5042	.43	153	197	819	4.80	25	44	249

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
DXR5043	.20	142	195	727	4.10	28	32	223
DXR5044	.34	182	116	776	5.14	25	33	48.0
DXR5045	.64	172	275	701	5.50	28	85	49.1
DXR5046	.45	162	124	695	4.43	22	39	109
DXR5047	.64	175	186	769	5.33	22	37	38.8
DXR5048	.69	194	175	841	5.77	26	44	163
DXR5049	.25	151	59	757	4.26	20	18	65.4
DXR5050	.22	147	194	713	3.67	18	17	9.5
DXR5051	.08	69	386	237	1.34	11	30	34.6
DXR5052	.04	69	461	681	2.28	14	31	19.7
DXR5053	.29	167	302	1100	4.59	32	30	13.2
DXR5054	.35	164	131	859	4.59	23	53	74.7
DXR5055	.68	192	136	954	6.80	22	44	96.3
DXR5056	.50	207	270	887	5.57	25	35	75.2
DXR5057	.55	186	116	851	5.03	23	32	66.9
DXR5059	.54	168	195	805	5.00	21	36	69.9
DXR5060	.43	162	63	827	5.91	22	37	19.8
DXR5061	.49	183	166	705	4.42	20	28	4.5
DXR5062	.48	160	141	755	4.69	25	33	57.3
DXR5063	.51	165	68	792	5.29	19	32	26.1
DXR5064	.38	103	98	447	2.56	11	20	25.0
DXR5065	.59	206	254	1280	6.37	34	49	130
DXR5066	.64	193	211	1070	6.11	27	44	420
DXR5068	.74	226	300	1110	6.28	27	41	16.5
DXR5069	.76	220	233	916	5.81	24	33	15.1
DXR5070	.82	246	335	1080	6.27	29	37	5.8
DXR5071	.72	218	457	1760	5.48	28	33	2.9
DXR5072	.67	201	270	1290	10.4	27	41	769
DXR5073	.77	215	167	1210	6.90	25	42	57.3
DXR5074	.75	224	250	1420	6.75	26	41	2.8
DXR5075	.76	229	231	1140	5.85	24	36	5.7
DXR5076	.74	228	232	947	6.59	26	39	8.1
DXR5077	.60	209	106	660	3.73	16	28	62.3
DXR5078	.41	189	85	520	3.47	16	21	16.3
DXR5079	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
DXR5080	.50	200	101	795	6.05	22	30	9.2
DXR5081	.36	126	311	1090	3.98	16	24	2.7
DXR5082	.31	135	79	1220	4.58	16	22	8.8
DXR5083	.35	182	73	1200	5.48	20	30	4.4
DXR5084	.35	191	145	1010	4.27	15	25	7.7

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
DXR5085	.03	59	691	2230	6.47	28	31	7.3
DXR5086	.11	192	655	1210	4.67	23	37	5.9
DXR5087	.44	218	166	1160	5.35	18	30	14.4
DXR5088	.30	193	551	697	5.13	121	37	11.1
DXR5089	.46	183	95	871	4.76	14	30	2.3
DXR5090	.46	181	89	734	4.69	15	26	47.3
DXR5091	.40	186	121	1070	5.01	20	28	141
DXR5092	.47	245	352	1010	6.26	38	34	9.3
DXR5093	.74	211	450	845	5.60	22	41	41.7
DXR5095	.77	212	193	868	5.09	18	35	4.8
DXR5096	.69	201	301	1070	6.77	22	51	8.8
DXR5097	.72	191	272	1470	4.52	18	34	5.6
DXR5098	.73	191	218	935	5.90	22	38	9.9
DXR5099	.70	209	575	1060	5.37	19	53	717
DXR5100	.70	197	417	1490	6.59	26	48	30.0
DXR5101	.66	190	341	1140	6.86	24	51	168
DXR5102	.68	183	267	1080	4.47	16	35	6.1
DXR5103	.65	178	152	1110	5.20	20	37	6.9
DXR5104	.71	204	230	895	5.16	18	40	3.7
DXR5105	.48	200	165	1200	6.30	26	57	15.8
DXR5106	.56	181	115	1050	5.80	25	25	62.1
DXR5107	.51	192	105	1230	5.79	25	35	4.1
DXR5108	.48	202	162	1220	6.40	30	48	4.6
DXR5109	.40	179	375	992	5.62	41	53	18.5
DXR5110	.69	210	337	868	6.71	61	94	18.4
DXR5111	.73	199	305	1120	7.87	42	108	141
DXR5112	.73	201	378	1020	6.78	40	71	91.2
DXR5113	.78	217	458	912	6.01	24	66	42.7
DXR5114	.65	186	247	1310	5.73	24	43	11.4
DXR5115	.75	196	315	624	4.98	18	32	53.3
DXR5116	.73	204	279	660	5.54	24	35	52.1
DXR5117	.71	188	197	664	4.69	18	33	46.3
DXR5118	.77	198	187	668	5.10	18	37	116
DXR5119	.66	179	90	849	5.53	21	36	149
DXR5120	.67	195	175	998	6.57	32	38	125
DXR5121	.64	182	148	962	6.55	23	39	68.1
DXR5122	.30	169	84	830	4.80	26	23	58.7
DXR5123	.24	135	121	820	4.04	20	18	49.0
DXR5124	.27	151	63	782	4.30	22	14	156
DXR5125	.21	133	70	680	3.82	19	14	100

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
DXR5127	.12	179	163	2130	4.35	16	61	243
DXR5128	.19	170	79	693	4.47	24	25	434
DXR5129	.17	175	208	676	4.10	21	37	429
DXR5130	.17	165	153	725	3.89	24	28	374
DXR5131	.20	164	146	765	4.65	29	28	352
DXR5132	.22	168	364	714	3.67	24	43	452
DXR5134	.18	162	182	801	3.75	20	32	377
DXR5135	.26	160	106	733	4.80	25	26	803
DXR5136	.26	159	102	662	4.98	37	32	534
DXR5137	.24	155	122	690	4.73	29	27	424
DXR5138	.21	158	81	727	5.20	24	41	543
DXR5139	.12	168	246	977	4.58	26	240	225
DXR5140	.08	130	171	1510	4.69	25	95	245
DXR5141	.04	125	454	1220	5.37	57	512	69.2
DXR5142	.10	134	129	698	4.55	23	57	163
DXR5143	.04	61	275	781	6.21	76	585	4.5
DXR5144	.03	58	339	861	6.99	85	715	2.8
DXR5146	.05	68	202	880	6.86	75	604	11.3
DXR5147	.20	175	89	695	4.40	19	36	21.0
DXR5148	.08	70	125	590	6.35	46	450	28.6
DXR5149	.31	251	129	940	6.59	43	114	639
DXR5150	.48	281	139	605	6.62	53	91	143
DXR5151	.39	186	171	779	4.57	32	68	1760
DXR5152	.62	209	162	660	5.89	39	98	270
DXR5153	.62	257	190	822	6.96	55	92	385
DXR5154	.37	160	421	473	17.3	171	336	1270
DXR5155	.50	94	88	301	3.62	25	123	56.4
DXR5156	.41	86	174	153	2.10	21	59	53.8
DXR5157	.50	114	223	187	3.41	33	64	159
DXR5158	.44	105	222	192	2.41	17	44	93.3
DXR5159	.41	99	122	179	2.09	20	59	128
DXR5160	.41	87	161	179	1.96	9	31	39.0
DXR5161	.43	90	214	224	2.17	10	29	21.3
DXR5162	.42	96	437	239	2.48	14	35	283
DXR5163	.41	86	259	247	2.24	11	25	18.0
DXR5165	.42	89	175	294	2.60	11	28	22.4
DXR5166	.46	87	108	292	2.75	11	25	5.9
DXR5167	.37	80	123	276	2.28	11	25	94.2
DXR5168	.37	86	98	385	3.26	12	30	44.9
DXR5169	.40	91	102	232	2.98	15	27	279

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
DXR5170	.37	84	126	175	1.75	13	19	113
DXR5171	.32	94	160	204	2.15	18	19	235
DXR5172	.33	85	216	239	2.16	12	21	177
DXR5173	.34	84	110	213	2.38	16	24	88.5
DXR5174	.28	78	139	289	3.11	15	14	149
DXR5175	.34	84	132	438	4.94	26	19	143
DXR5176	.37	81	99	568	4.17	25	19	388
DXR5177	.31	99	138	455	3.18	13	21	137
DXR5178	.33	87	177	294	3.77	20	24	251
DXR5179	.37	75	121	501	3.32	10	23	43.0
DXR5180	.30	89	139	451	3.18	9	17	87.7
DXR5181	.37	78	88	349	2.82	7	16	33.0
DXR5182	.43	92	212	316	3.50	8	26	8.1
DXR5183	.33	88	169	421	4.41	14	28	77.6
DXR5184	.36	82	121	474	3.24	6	23	14.1
DXR5185	.37	82	114	342	3.27	10	21	17.6
DXR5186	.36	93	191	356	4.41	24	21	168
DXR5188	.35	85	171	326	3.64	10	16	44.1
DXR5189	.34	85	138	333	3.73	8	16	82.6
DXR5190	.34	82	83	448	4.24	12	13	111
DXR5191	.32	83	95	469	4.72	12	17	88.0
DXR5192	.31	83	125	459	4.49	17	19	185
DXR5193	.35	89	198	425	4.36	21	22	151
DXR5194	.39	92	186	287	4.97	17	17	113
DXR5195	.35	88	170	322	4.30	20	19	182
DXR5196	.38	86	94	428	4.30	13	16	90.4
DXR5197	.30	98	270	408	4.64	25	21	128
DXR5198	.27	86	154	395	5.47	25	18	240
DXR5199	.28	105	171	529	5.23	17	18	208
DXR5200	.28	88	109	478	4.98	9	20	78.6
DXR5201	.33	84	161	467	5.09	10	18	111
DXR5202	.31	84	165	530	5.25	11	19	69.2
DXR5203	.32	91	179	593	4.63	19	19	137
DXR5204	.30	81	93	477	3.88	7	14	5.9
DXR5205	.37	87	92	345	3.34	8	10	5.4
DXR5206	.32	86	94	329	3.11	7	11	3.4
DXR5207	.32	84	60	311	3.10	6	10	9.3
DXR5208	.36	79	65	457	3.38	7	13	2.4
DXR5209	.29	110	110	648	4.13	13	15	59.0
DXR5210	.24	113	194	649	3.77	10	14	151

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
DXR5211	.22	105	298	416	4.01	15	16	45.1
DXR5212	.31	83	125	489	6.69	13	15	97.9
DXR5213	.33	88	180	570	5.68	18	15	151
DXR5214	.32	83	259	455	4.47	11	14	103
DXR5215	.30	80	121	441	3.33	10	15	15.1
DXR5216	.31	86	139	419	4.04	11	12	7.4
DXR5217	.38	88	188	456	4.29	11	17	19.2
DXR5218	.44	95	242	526	4.74	12	15	23.0
DXR5219	.42	92	180	485	4.64	14	15	35.4
DXR5220	.44	90	225	492	4.66	11	17	30.0
DXR5222	.43	87	315	523	4.50	11	16	16.7
DXR5223	.38	74	179	632	4.07	11	12	64.7
DXR5224	.41	87	164	623	4.56	13	13	60.1
DXR5225	.42	100	170	743	4.28	9	15	29.0
DXR5226	.45	153	196	799	4.35	16	24	15.9
DXR5227	.34	132	145	1150	3.84	14	17	3.9
DXR5228	.31	132	103	1010	4.03	15	19	23.5
DXR5229	.36	131	67	810	4.54	18	25	22.6
DXR5230	.35	123	85	709	3.87	14	26	512
DXR5231	.38	135	92	833	4.05	14	19	17.0
DXR5232	.36	131	154	1060	4.32	15	20	28.0
DXR5233	.37	138	117	975	4.28	15	19	1.9
DXR5234	.35	134	156	846	3.98	13	22	2.2
DXR5235	.28	133	178	947	4.73	16	16	2.3
DXR5236	.34	134	107	739	4.18	10	17	4.9
DXR5237	.34	142	146	760	4.50	14	22	2.5
DXR5238	.28	134	114	896	4.85	18	19	6.4
DXR5239	.32	141	123	800	4.39	18	19	1.6
DXR5240	.29	134	125	896	5.02	22	21	2.8
DXR5241	.37	132	65	854	5.08	18	23	52.8
DXR5242	.41	152	113	801	4.19	13	19	12.9
DXR5243	.37	157	66	1020	6.12	19	27	22.3
DXR5244	.33	141	176	962	4.73	20	26	3.7
DXR5245	.34	133	128	898	4.48	16	18	1.9
DXR5246	.44	149	243	1050	4.70	8	10	13.1
DXR5248	.49	200	153	1500	6.31	25	32	4.8
DXR5249	.49	158	134	1000	5.15	18	14	354
DXR5250	.47	151	272	617	4.83	20	13	132
DXR5501	.50	153	201	858	4.90	12	12	43.1
DXR5502	.49	157	242	966	5.51	17	11	61.5

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
DXR5503	.46	151	289	923	4.47	11	12	24.9
DXR5504	.44	140	198	808	4.24	13	13	57.2
DXR5505	.40	123	181	1270	5.38	22	22	128
DXR5507	.44	85	166	811	4.53	11	16	44.9
DXR5508	.46	93	226	968	5.18	18	20	53.5
DXR5509	.39	82	167	827	4.19	14	18	28.8
DXR5510	.44	102	189	914	5.39	16	28	11.3
DXR5512	.43	95	143	1030	4.85	16	28	9.2
DXR5513	.51	99	130	963	5.02	14	12	19.3
DXR5515	.51	97	146	956	5.06	12	14	5.7
DXR5516	.49	102	204	1110	5.41	20	11	82.5
DXR5517	.46	127	547	1740	9.85	25	20	3120
DXR5518	.37	110	393	1540	11.3	33	17	2260
DXR5519	.47	97	262	1460	6.91	23	14	10.6
DXR5520	.42	94	284	1390	5.84	23	14	53.8
DXR5521	.51	101	229	1180	5.14	19	18	7.8
DXR5522	.48	94	150	1170	5.07	16	14	16.7
DXR5523	.45	93	148	1260	4.98	22	12	5.5
DXR5524	.51	97	74	937	4.47	16	11	4.2
DXR5525	.49	94	126	968	4.13	16	11	7.4
DXR5526	.42	99	210	1270	7.77	20	13	8.5
DXR5527	.51	102	138	1330	6.60	23	29	8.8
DXR5528	.53	152	342	1140	6.42	31	152	108
DXR5529	.46	111	199	715	4.04	24	172	5.7
DXR5530	.44	109	247	755	4.03	26	179	9.0
DXR5531	.74	181	263	1360	6.99	24	64	435
DXR5532	.46	154	192	966	4.91	16	13	12.2
DXR5533	.51	164	148	811	5.20	12	8	5.4
DXR5534	.74	179	113	747	6.97	20	56	137
DXR5535	.73	177	122	672	6.40	22	72	22.6
DXR5536	.52	141	116	702	5.41	34	81	28.8
DXR5537	.54	159	126	1090	5.44	38	142	52.5
DXR5538	.55	150	88	937	5.03	28	89	152
DXR5539	.63	168	77	831	5.42	23	39	24.6
DXR5540	.25	100	167	594	3.39	17	34	8.7
D DXR5000	.29	152	148	698	4.35	14	10	59.0
D DXR5013	.45	147	117	558	4.70	18	31	164
D DXR5026	.41	146	161	620	5.48	34	35	107
D DXR5039	.67	176	129	1360	7.33	32	59	99.0
D DXR5049	.22	132	53	670	3.94	21	15	63.5

D - QUALITY CONTROL DUPLICATE

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
D DXR5062	.46	167	156	813	5.28	27	31	62.1
D DXR5075	.79	233	218	1160	6.04	26	33	4.9
D DXR5087	.35	229	184	1230	5.75	19	31	10.9
D DXR5098	.79	206	236	997	6.38	23	37	8.3
D DXR5110	.76	228	309	942	7.36	63	99	17.6
D DXR5122	.31	173	70	847	4.95	25	25	67.0
D DXR5136	.27	175	99	724	5.46	37	33	568
D DXR5147	.20	175	80	706	4.50	18	37	24.0
D DXR5159	.40	98	96	183	2.08	19	53	142
D DXR5172	.36	91	184	255	2.33	15	20	184
D DXR5184	.37	86	109	499	3.47	11	22	16.4
D DXR5195	.36	87	146	325	4.39	21	17	171
D DXR5207	.33	80	53	297	2.92	6	10	7.8
D DXR5219	.44	93	182	495	4.74	12	16	30.5
D DXR5232	.33	132	123	1080	4.37	14	19	27.0
D DXR5242	.37	150	116	792	4.10	13	21	12.2
D DXR5505	.40	125	156	1280	5.48	24	21	150
D DXR5520	.42	92	283	1410	5.91	21	14	53.2
D DXR5532	.46	156	186	983	5.00	16	16	11.8

D - QUALITY CONTROL DUPLICATE

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
DXR5000	25.0	<3	105	9.9	95.3	13	1.1	<1
DXR5001	19.4	<3	121	8.2	87.2	8	<.1	<1
DXR5002	16.5	<3	114	9.5	85.9	14	.6	<1
DXR5003	19.6	<3	125	8.6	81.6	4	<.1	<1
DXR5005	35.2	<3	202	11.2	105	12	<.1	<1
DXR5006	30.8	<3	200	12.6	109	9	<.1	<1
DXR5007	27.5	<3	96.6	8.7	76.3	76	<.1	<1
DXR5008	23.5	<3	148	9.0	90.0	6	<.1	<1
DXR5009	18.7	<3	146	7.7	83.0	7	.4	<1
DXR5010	44.4	<3	265	12.3	112	6	<.1	<1
DXR5011	39.6	<3	279	12.2	109	3	.3	<1
DXR5012	20.5	<3	172	10.1	72.2	<1	.7	<1
DXR5013	26.7	<3	134	12.8	108	27	<.1	<1
DXR5015	23.2	<3	193	14.4	116	2	<.1	<1
DXR5016	32.6	<3	214	16.3	124	6	<.1	<1
DXR5017	27.7	<3	167	14.2	115	2	<.1	<1
DXR5018	34.5	<3	167	11.0	115	<1	<.1	<1
DXR5019	24.4	<3	152	9.5	110	1	<.1	<1
DXR5020	19.8	<3	160	9.3	120	4	<.1	<1
DXR5021	17.0	<3	135	8.6	105	5	<.1	<1
DXR5022	19.7	<3	174	11.5	134	6	<.1	<1
DXR5023	30.1	<3	284	9.4	99.1	11	<.1	<1
DXR5024	25.7	<3	170	12.2	124	2	<.1	<1
DXR5025	30.7	<3	379	14.6	121	2	<.1	<1
DXR5026	32.8	<3	151	10.1	108	22	.2	<1
DXR5027	28.7	<3	118	11.1	120	1	<.1	<1
DXR5028	27.9	<3	128	11.3	121	7	<.1	<1
DXR5029	30.1	<3	146	9.6	114	7	<.1	<1
DXR5030	29.0	<3	201	11.1	96.7	3	<.1	<1
DXR5031	31.5	<3	132	11.2	127	3	.5	<1
DXR5032	30.5	<3	131	10.6	108	3	.5	<1
DXR5034	32.2	<3	140	14.5	117	33	<.1	<1
DXR5035	29.0	<3	159	17.1	127	7	1.0	<1
DXR5036	36.7	<3	268	18.9	153	9	1.6	<1
DXR5037	39.9	<3	308	19.1	152	4	1.0	<1
DXR5038	37.1	<3	266	18.1	136	6	.7	<1
DXR5039	44.2	<3	243	18.2	127	3	1.2	<1
DXR5040	39.8	<3	236	16.8	128	1	.8	<1
DXR5041	37.2	<3	192	13.3	127	7	.9	<1
DXR5042	21.9	<3	211	13.8	106	52	1.0	<1

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
DXR5043	30.7	<3	248	8.8	85.5	45	<.1	<1
DXR5044	47.9	<3	526	13.2	101	18	.5	<1
DXR5045	28.8	<3	264	16.2	106	6	.3	<1
DXR5046	20.8	<3	190	14.5	116	5	.8	<1
DXR5047	32.4	<3	318	16.2	126	3	.3	<1
DXR5048	38.4	<3	433	18.5	139	3	.8	<1
DXR5049	36.0	<3	267	9.7	104	<1	<.1	<1
DXR5050	25.5	<3	220	8.5	96.0	2	.9	<1
DXR5051	10.4	<3	108	2.6	27.0	10	1.0	<1
DXR5052	19.8	<3	210	5.5	23.3	9	<.1	<1
DXR5053	32.7	<3	276	9.9	134	3	<.1	<1
DXR5054	49.3	<3	366	12.4	116	2	<.1	<1
DXR5055	46.5	<3	637	19.8	149	5	.3	<1
DXR5056	54.7	<3	734	14.8	112	2	.5	<1
DXR5057	46.1	<3	387	16.4	123	<1	1.5	<1
DXR5059	36.3	<3	383	15.5	126	2	<.1	<1
DXR5060	35.6	<3	285	14.9	119	<1	1.1	<1
DXR5061	36.4	<3	302	14.9	130	<1	27.6	<1
DXR5062	29.0	<3	540	14.5	115	3	.2	<1
DXR5063	34.2	<3	312	17.5	131	2	1.0	<1
DXR5064	24.5	<3	226	9.5	73.7	<1	<.1	<1
DXR5065	60.3	<3	584	17.0	109	5	.8	<1
DXR5066	43.1	<3	558	18.5	125	4	.6	<1
DXR5068	50.6	<3	552	19.8	127	5	1.3	<1
DXR5069	58.5	<3	530	19.4	122	5	.7	<1
DXR5070	53.0	<3	581	20.3	138	4	1.3	<1
DXR5071	56.7	8	460	17.3	122	2	<.1	<1
DXR5072	49.5	<3	1050	21.9	111	2	2.0	<1
DXR5073	62.8	<3	442	20.6	126	2	1.1	<1
DXR5074	64.3	<3	470	19.6	126	<1	.6	<1
DXR5075	58.9	<3	476	18.8	106	2	<.1	<1
DXR5076	60.4	<3	442	19.0	133	2	1.3	<1
DXR5077	27.1	<3	142	14.8	130	<1	.8	<1
DXR5078	23.9	<3	121	15.2	124	<1	.4	<1
DXR5079	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
DXR5080	44.0	<3	155	13.6	126	<1	.4	<1
DXR5081	23.6	<3	290	9.7	80.0	2	.5	<1
DXR5082	33.7	<3	349	11.9	93.9	<1	.8	<1
DXR5083	36.1	<3	349	12.5	101	1	.9	<1
DXR5084	35.2	<3	324	11.8	125	1	.3	<1

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

XRAL 12-DEC-94 REPORT 30599 WORKORDER 1996-FL

SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
DXR5085	44.7	16	661	11.0	9.2	3	<.1	<1
DXR5086	31.3	<3	601	8.8	32.4	4	1.8	<1
DXR5087	26.8	<3	311	12.5	125	<1	1.7	<1
DXR5088	25.0	5	220	8.4	79.1	5	.9	<1
DXR5089	25.9	<3	278	12.3	118	<1	.7	<1
DXR5090	26.9	<3	224	11.8	106	<1	<.1	<1
DXR5091	30.3	<3	150	14.2	98.4	3	.3	<1
DXR5092	35.5	<3	249	15.3	123	3	<.1	<1
DXR5093	49.6	<3	464	18.1	118	2	10.8	<1
DXR5095	44.1	12	386	18.6	121	3	.5	<1
DXR5096	60.4	<3	441	17.4	114	3	.7	<1
DXR5097	53.5	4	269	17.1	122	<1	.7	<1
DXR5098	52.1	<3	355	18.2	121	<1	1.2	<1
DXR5099	32.1	4	747	17.4	120	4	.3	<1
DXR5100	59.5	4	305	17.8	123	3	<.1	<1
DXR5101	58.7	9	421	16.4	109	2	<.1	<1
DXR5102	44.9	<3	371	16.0	128	3	.5	<1
DXR5103	50.2	<3	335	16.3	117	<1	1.3	<1
DXR5104	47.0	<3	539	17.0	128	<1	1.2	<1
DXR5105	90.8	<3	365	14.8	91.0	<1	.3	<1
DXR5106	76.9	<3	165	28.2	140	<1	1.1	<1
DXR5107	85.4	<3	217	19.0	112	<1	.6	<1
DXR5108	88.5	<3	240	14.8	91.8	<1	<.1	<1
DXR5109	74.1	<3	211	13.6	73.2	1	.3	<1
DXR5110	50.3	19	819	19.5	126	2	.7	<1
DXR5111	64.0	19	814	20.2	133	<1	1.4	<1
DXR5112	49.0	9	626	20.2	137	2	.3	<1
DXR5113	38.4	<3	795	21.8	158	2	.6	<1
DXR5114	46.9	<3	516	19.2	138	2	.5	<1
DXR5115	30.0	<3	617	20.4	153	3	1.8	<1
DXR5116	31.4	<3	586	19.9	133	4	.6	<1
DXR5117	28.2	<3	485	19.3	137	6	.4	<1
DXR5118	31.9	<3	371	19.9	137	5	.4	<1
DXR5119	38.9	<3	236	17.1	123	2	<.1	<1
DXR5120	47.9	<3	259	18.2	125	4	1.2	<1
DXR5121	45.5	<3	257	17.1	120	<1	<.1	<1
DXR5122	47.8	<3	204	8.1	85.2	2	<.1	<1
DXR5123	620	<3	279	9.9	107	2	<.1	<1
DXR5124	33.2	<3	254	10.0	109	3	.9	<1
DXR5125	29.3	<3	302	9.0	95.7	2	<.1	<1

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
DXR5127	37.8	<3	183	5.0	21.4	20	3.3	<1
DXR5128	37.8	<3	261	8.8	92.4	13	2.1	<1
DXR5129	36.3	<3	240	9.9	98.2	13	3.6	<1
DXR5130	33.8	<3	220	10.1	96.6	52	2.9	<1
DXR5131	37.7	<3	238	9.6	100	9	1.8	<1
DXR5132	34.3	<3	134	9.0	97.9	19	2.3	<1
DXR5134	34.2	<3	151	9.0	100	12	2.3	<1
DXR5135	37.5	<3	195	10.3	101	13	1.3	<1
DXR5136	34.9	<3	184	9.9	97.7	8	1.2	<1
DXR5137	35.4	<3	209	9.4	96.3	25	<.1	<1
DXR5138	33.4	<3	172	9.9	89.7	16	.3	<1
DXR5139	36.1	4	187	7.5	57.5	140	.5	<1
DXR5140	37.4	<3	172	6.6	48.1	24	1.2	<1
DXR5141	71.2	<3	244	2.5	10.6	467	1.9	<1
DXR5142	27.6	<3	215	8.8	68.1	7	.3	<1
DXR5143	81.6	<3	248	2.4	10.3	<1	<.1	<1
DXR5144	88.2	<3	151	2.0	11.2	<1	<.1	<1
DXR5146	81.1	<3	405	2.4	17.8	<1	<.1	<1
DXR5147	24.7	<3	1240	8.9	84.6	9	<.1	<1
DXR5148	64.0	<3	108	2.8	16.1	9	<.1	<1
DXR5149	20.8	6	134	8.1	54.1	5	<.1	<1
DXR5150	40.8	4	96.5	8.1	57.3	5	<.1	<1
DXR5151	25.5	<3	138	11.3	48.7	9	<.1	<1
DXR5152	41.6	4	95.1	13.7	61.9	10	<.1	<1
DXR5153	56.5	25	190	14.5	64.2	7	<.1	<1
DXR5154	42.4	705	52.8	11.8	76.0	12	.5	<1
DXR5155	22.6	<3	149	18.2	167	9	<.1	<1
DXR5156	9.5	<3	105	14.0	148	14	<.1	<1
DXR5157	8.6	<3	129	17.0	155	25	<.1	<1
DXR5158	8.4	<3	96.3	15.9	143	26	<.1	<1
DXR5159	9.4	<3	120	14.4	145	24	<.1	<1
DXR5160	14.8	<3	172	14.0	141	19	<.1	<1
DXR5161	14.6	<3	259	15.5	140	146	<.1	<1
DXR5162	13.7	<3	297	15.3	148	74	<.1	<1
DXR5163	14.7	<3	271	15.0	140	150	<.1	<1
DXR5165	17.0	<3	262	14.7	143	70	<.1	<1
DXR5166	16.4	<3	239	16.8	155	59	<.1	<1
DXR5167	15.0	<3	130	12.7	133	38	<.1	<1
DXR5168	17.1	<3	170	14.9	147	58	<.1	<1
DXR5169	14.5	<3	133	11.9	154	131	<.1	<1

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
DXR5170	6.2	7	163	12.2	155	8	<.1	<1
DXR5171	6.5	<3	175	12.4	147	18	<.1	<1
DXR5172	7.8	<3	160	12.0	138	13	<.1	<1
DXR5173	6.7	<3	160	11.2	148	5	<.1	<1
DXR5174	10.9	<3	206	11.9	130	5	<.1	<1
DXR5175	23.0	<3	212	12.5	138	4	<.1	<1
DXR5176	15.5	<3	118	13.8	144	8	.3	<1
DXR5177	13.0	<3	120	9.7	132	21	<.1	<1
DXR5178	10.3	3	124	11.8	144	19	<.1	<1
DXR5179	15.0	<3	145	12.7	144	5	<.1	<1
DXR5180	18.0	<3	136	12.7	146	8	<.1	<1
DXR5181	14.1	<3	170	12.4	137	6	<.1	<1
DXR5182	18.7	<3	257	13.5	156	5	<.1	<1
DXR5183	21.2	<3	235	11.6	134	4	<.1	<1
DXR5184	21.7	<3	211	14.8	134	2	<.1	<1
DXR5185	17.5	<3	177	13.7	149	4	<.1	<1
DXR5186	21.9	<3	249	12.3	151	9	<.1	<1
DXR5188	21.2	<3	251	12.7	144	8	<.1	<1
DXR5189	18.1	<3	231	12.8	149	7	<.1	<1
DXR5190	21.7	<3	197	13.2	138	15	.6	<1
DXR5191	27.1	<3	199	12.7	142	5	<.1	<1
DXR5192	23.2	<3	224	9.9	133	9	<.1	<1
DXR5193	20.4	5	214	10.6	141	6	<.1	<1
DXR5194	21.0	4	171	9.7	143	8	<.1	<1
DXR5195	18.0	<3	329	10.3	136	14	<.1	<1
DXR5196	20.4	<3	1390	10.0	136	11	<.1	<1
DXR5197	21.4	<3	177	11.0	138	14	<.1	<1
DXR5198	15.5	<3	313	11.9	128	14	<.1	<1
DXR5199	21.2	<3	236	14.7	148	13	<.1	<1
DXR5200	26.2	<3	174	12.1	140	14	.4	<1
DXR5201	28.1	<3	145	10.2	135	4	.7	<1
DXR5202	25.0	<3	151	11.2	133	2	<.1	<1
DXR5203	24.4	<3	199	14.0	136	11	.7	<1
DXR5204	21.3	<3	197	10.7	128	7	<.1	<1
DXR5205	22.4	<3	180	13.5	149	11	1.3	<1
DXR5206	17.7	<3	188	11.0	134	8	.7	<1
DXR5207	18.9	<3	132	10.7	142	21	1.1	<1
DXR5208	17.4	<3	159	11.4	139	5	.6	<1
DXR5209	26.6	<3	624	16.3	147	6	1.8	<1
DXR5210	21.5	<3	112	12.2	133	9	1.7	<1

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
DXR5211	19.6	<3	76.6	10.6	125	13	1.9	<1
DXR5212	25.0	<3	150	11.5	140	3	1.6	<1
DXR5213	22.0	<3	178	13.0	145	101	1.2	<1
DXR5214	25.1	<3	141	11.8	135	93	.9	<1
DXR5215	19.1	<3	183	12.8	126	10	1.5	<1
DXR5216	19.9	<3	149	12.9	124	7	.8	<1
DXR5217	23.6	<3	199	14.2	137	10	.3	<1
DXR5218	21.8	<3	375	16.2	142	11	<.1	<1
DXR5219	19.9	<3	344	16.0	128	23	1.0	<1
DXR5220	23.3	<3	355	15.0	143	9	.6	<1
DXR5222	23.6	<3	350	15.1	137	50	.3	<1
DXR5223	18.1	<3	267	15.8	135	8	.2	<1
DXR5224	21.8	<3	333	15.3	142	21	.6	<1
DXR5225	28.4	<3	275	14.5	121	2	<.1	<1
DXR5226	34.6	<3	231	16.3	107	5	.6	<1
DXR5227	32.0	<3	215	16.7	102	2	<.1	<1
DXR5228	35.9	<3	158	10.9	103	3	<.1	<1
DXR5229	32.8	<3	149	8.4	103	4	<.1	<1
DXR5230	29.6	<3	177	7.4	97.9	135	.3	<1
DXR5231	24.1	<3	242	9.3	104	5	.3	<1
DXR5232	32.8	<3	195	11.6	98.7	6	<.1	<1
DXR5233	31.1	<3	227	9.5	103	5	<.1	<1
DXR5234	33.3	<3	297	11.1	108	8	<.1	<1
DXR5235	33.6	<3	369	13.2	104	8	.4	<1
DXR5236	29.6	<3	198	8.6	106	3	<.1	<1
DXR5237	32.6	<3	262	11.2	106	6	.2	<1
DXR5238	37.5	<3	178	9.5	103	4	<.1	<1
DXR5239	32.1	<3	185	9.9	112	2	.3	<1
DXR5240	39.2	<3	323	9.4	101	5	.3	<1
DXR5241	39.0	<3	266	8.4	108	6	<.1	<1
DXR5242	28.7	<3	180	9.0	114	6	.7	<1
DXR5243	41.9	<3	185	10.5	112	9	1.5	<1
DXR5244	39.3	<3	221	11.0	109	5	.3	<1
DXR5245	34.5	<3	159	10.7	97.6	3	<.1	<1
DXR5246	38.8	<3	239	18.7	110	2	<.1	<1
DXR5248	73.1	<3	467	15.7	96.7	7	<.1	<1
DXR5249	42.2	<3	278	16.5	106	22	.8	<1
DXR5250	18.6	<3	388	15.3	101	6	<.1	<1
DXR5501	23.5	<3	324	14.2	111	7	<.1	<1
DXR5502	29.2	<3	367	15.6	106	4	.6	<1

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
DXR5503	28.0	<3	302	16.2	99.3	3	<.1	<1
DXR5504	23.6	<3	298	15.6	91.3	2	<.1	<1
DXR5505	49.8	<3	331	13.9	109	14	1.3	<1
DXR5507	23.7	<3	280	15.7	131	9	.1	<1
DXR5508	31.7	<3	302	16.0	143	9	.3	<1
DXR5509	24.9	<3	328	15.4	129	6	<.1	<1
DXR5510	41.3	<3	277	15.9	135	7	.2	<1
DXR5512	38.3	<3	188	15.0	139	3	<.1	<1
DXR5513	38.3	<3	363	16.1	125	5	.5	<1
DXR5515	41.7	<3	258	16.5	131	8	<.1	<1
DXR5516	48.7	<3	402	15.2	122	6	<.1	<1
DXR5517	46.5	<3	707	17.7	131	71	1.1	<1
DXR5518	43.1	<3	692	14.7	110	27	1.6	<1
DXR5519	54.1	<3	464	16.9	137	37	1.1	<1
DXR5520	51.8	<3	458	15.7	125	21	.4	<1
DXR5521	53.2	<3	433	16.0	114	14	<.1	<1
DXR5522	55.4	<3	381	15.8	124	16	<.1	<1
DXR5523	54.6	<3	426	15.1	120	8	.7	<1
DXR5524	48.9	<3	258	15.7	110	6	1.0	<1
DXR5525	41.2	<3	399	16.1	141	18	.3	<1
DXR5526	38.8	<3	584	16.7	123	80	<.1	<1
DXR5527	80.1	<3	525	18.5	148	9	<.1	<1
DXR5528	68.4	<3	727	15.5	103	7	<.1	<1
DXR5529	60.8	11	978	14.2	170	<1	<.1	<1
DXR5530	62.6	<3	914	13.6	168	2	<.1	<1
DXR5531	69.6	<3	1000	18.9	139	6	<.1	<1
DXR5532	41.3	<3	197	14.2	93.9	5	.1	<1
DXR5533	32.8	<3	195	15.5	104	<1	<.1	<1
DXR5534	40.8	<3	171	20.1	118	<1	<.1	<1
DXR5535	35.2	<3	135	19.0	123	1	.3	<1
DXR5536	39.1	<3	94.1	14.8	109	11	<.1	<1
DXR5537	52.9	<3	121	18.3	108	14	<.1	<1
DXR5538	42.2	<3	150	16.6	111	14	<.1	<1
DXR5539	45.7	<3	144	16.1	128	5	<.1	<1
DXR5540	62.8	<3	393	11.6	103	2	<.1	<1
D DXR5000	23.7	<3	97.1	8.7	86.6	13	.7	<1
D DXR5013	26.1	<3	146	14.9	128	31	<.1	<1
D DXR5026	28.9	<3	146	13.8	112	22	<.1	<1
D DXR5039	46.9	<3	266	19.9	139	2	.7	<1
D DXR5049	35.2	<3	252	8.7	98.0	<1	<.1	<1

D - QUALITY CONTROL DUPLICATE

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
D DXR5062	29.5	<3	569	14.7	112	4	<.1	<1
D DXR5075	60.1	<3	487	20.1	110	4	<.1	<1
D DXR5087	25.5	<3	330	13.4	136	1	1.7	<1
D DXR5098	55.2	<3	386	19.7	120	2	.6	<1
D DXR5110	51.0	18	864	21.9	133	2	.4	<1
D DXR5122	47.2	<3	213	8.2	92.6	<1	<.1	<1
D DXR5136	37.8	<3	204	11.0	111	5	2.3	<1
D DXR5147	21.6	<3	1350	8.6	88.0	8	<.1	<1
D DXR5159	7.6	4	121	14.3	141	22	.5	<1
D DXR5172	6.6	<3	171	14.2	151	15	.5	<1
D DXR5184	16.8	<3	222	15.9	136	2	.3	<1
D DXR5195	14.9	<3	323	9.9	139	13	<.1	<1
D DXR5207	17.2	<3	125	9.9	134	16	<.1	<1
D DXR5219	21.2	<3	347	16.1	131	23	<.1	<1
D DXR5232	29.3	<3	196	10.2	96.3	6	.3	<1
D DXR5242	28.0	<3	177	7.8	110	6	.4	<1
D DXR5505	51.1	<3	338	13.9	110	11	.9	<1
D DXR5520	52.3	<3	462	15.6	125	21	.2	<1
D DXR5532	42.6	<3	200	14.1	94.5	3	<.1	<1

D - QUALITY CONTROL DUPLICATE

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SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
DXR5000	<10	<5	410	12.4	<10	<2	48
DXR5001	<10	<5	284	11.1	<10	<2	9
DXR5002	<10	<5	345	10.5	<10	<2	7
DXR5003	<10	<5	367	9.1	<10	<2	<3
DXR5005	<10	<5	353	21.5	<10	<2	14
DXR5006	<10	<5	346	31.9	<10	<2	8
DXR5007	<10	<5	389	12.9	<10	<2	6
DXR5008	<10	<5	378	10.7	<10	<2	3
DXR5009	<10	<5	504	11.6	<10	<2	11
DXR5010	<10	<5	155	28.4	<10	<2	4
DXR5011	<10	<5	165	26.7	<10	<2	7
DXR5012	<10	<5	441	10.7	<10	<2	7
DXR5013	<10	<5	246	10.3	<10	<2	4
DXR5015	<10	<5	196	12.6	<10	<2	4
DXR5016	<10	<5	130	15.2	<10	<2	7
DXR5017	<10	<5	123	13.4	<10	<2	13
DXR5018	<10	<5	272	12.9	<10	<2	<3
DXR5019	<10	<5	328	13.5	<10	<2	<3
DXR5020	<10	<5	388	14.9	<10	<2	10
DXR5021	<10	<5	335	12.9	<10	<2	7
DXR5022	<10	<5	392	15.5	<10	<2	5
DXR5023	<10	8	259	15.7	<10	<2	5
DXR5024	<10	<5	358	15.7	<10	<2	18
DXR5025	<10	6	141	13.6	<10	<2	12
DXR5026	<10	<5	239	14.9	<10	<2	8
DXR5027	<10	<5	400	16.5	<10	<2	5
DXR5028	<10	<5	336	18.1	<10	<2	8
DXR5029	<10	<5	274	13.6	<10	<2	11
DXR5030	<10	<5	253	11.9	<10	<2	7
DXR5031	<10	<5	453	20.5	<10	<2	<3
DXR5032	<10	<5	439	16.3	<10	<2	<3
DXR5034	<10	<5	335	16.9	<10	<2	<3
DXR5035	<10	<5	557	19.8	<10	<2	<3
DXR5036	<10	<5	369	24.7	<10	<2	7
DXR5037	<10	<5	411	31.2	<10	<2	8
DXR5038	<10	<5	273	27.6	<10	<2	8
DXR5039	<10	<5	296	20.1	<10	<2	<3
DXR5040	<10	<5	320	23.5	<10	<2	4
DXR5041	<10	<5	363	22.0	<10	<2	9
DXR5042	<10	<5	324	19.4	14	<2	4

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SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
DXR5043	<10	<5	325	21.7	<10	<2	<3
DXR5044	<10	<5	953	26.9	<10	<2	8
DXR5045	<10	<5	172	22.2	<10	<2	13
DXR5046	<10	<5	190	23.2	<10	<2	<3
DXR5047	<10	<5	209	27.9	<10	<2	12
DXR5048	<10	<5	272	28.4	<10	<2	<3
DXR5049	<10	<5	1030	28.1	<10	<2	6
DXR5050	<10	<5	1050	26.5	<10	<2	6
DXR5051	<10	<5	432	6.3	<10	<2	<3
DXR5052	<10	<5	598	10.4	<10	<2	3
DXR5053	<10	<5	593	34.8	<10	<2	4
DXR5054	<10	<5	1090	33.6	<10	<2	<3
DXR5055	<10	<5	355	28.8	<10	<2	14
DXR5056	<10	<5	948	31.0	<10	7	7
DXR5057	<10	<5	483	42.4	<10	<2	<3
DXR5059	<10	<5	242	27.7	<10	<2	7
DXR5060	<10	<5	153	26.5	<10	<2	10
DXR5061	<10	<5	309	28.5	<10	<2	10
DXR5062	<10	<5	189	28.1	<10	<2	7
DXR5063	<10	<5	143	26.5	<10	<2	4
DXR5064	<10	<5	171	20.8	<10	<2	6
DXR5065	<10	<5	465	26.5	20	<2	3
DXR5066	<10	<5	360	26.2	<10	<2	7
DXR5068	<10	<5	299	24.7	<10	<2	7
DXR5069	<10	<5	326	24.2	<10	<2	11
DXR5070	<10	<5	302	26.8	<10	<2	9
DXR5071	<10	<5	294	24.7	<10	<2	11
DXR5072	<10	8	62	23.2	<10	<2	<3
DXR5073	<10	<5	124	26.4	<10	<2	<3
DXR5074	<10	<5	251	27.6	<10	<2	17
DXR5075	<10	<5	312	26.4	<10	<2	8
DXR5076	<10	<5	194	23.8	<10	<2	8
DXR5077	<10	<5	476	25.4	<10	<2	8
DXR5078	<10	<5	450	22.8	<10	<2	8
DXR5079	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS	SMP MISS
DXR5080	<10	<5	275	25.4	<10	<2	7
DXR5081	<10	<5	190	18.4	<10	<2	4
DXR5082	<10	<5	209	21.5	<10	<2	9
DXR5083	<10	<5	270	23.1	<10	<2	4
DXR5084	<10	5	363	18.6	<10	<2	5

SMP.MISS. - SAMPLE WAS NOT RECEIVED AT XRAL

XRAL

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SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
DXR5085	<10	9	23	3.9	<10	31	6
DXR5086	<10	6	130	5.4	<10	<2	<3
DXR5087	<10	<5	346	24.3	<10	<2	<3
DXR5088	<10	7	263	16.7	<10	<2	5
DXR5089	<10	<5	281	24.5	<10	<2	<3
DXR5090	<10	<5	280	25.7	<10	<2	<3
DXR5091	<10	<5	326	30.4	<10	<2	<3
DXR5092	<10	8	442	29.8	<10	<2	<3
DXR5093	<10	8	195	25.4	<10	46	9
DXR5095	<10	<5	216	25.7	<10	<2	12
DXR5096	<10	5	122	19.8	<10	<2	<3
DXR5097	<10	<5	197	20.9	<10	<2	6
DXR5098	<10	<5	203	20.1	<10	<2	6
DXR5099	<10	8	161	20.1	<10	<2	<3
DXR5100	<10	<5	114	20.0	<10	<2	5
DXR5101	<10	<5	123	18.9	<10	<2	<3
DXR5102	<10	5	157	19.3	<10	<2	<3
DXR5103	<10	<5	196	17.5	<10	<2	11
DXR5104	<10	<5	221	18.9	<10	<2	<3
DXR5105	<10	5	213	27.6	<10	<2	6
DXR5106	<10	<5	184	40.2	<10	<2	<3
DXR5107	<10	<5	170	30.5	<10	<2	6
DXR5108	<10	<5	186	24.2	<10	<2	7
DXR5109	<10	<5	249	14.9	<10	<2	5
DXR5110	<10	<5	123	24.0	<10	<2	11
DXR5111	<10	<5	159	24.0	<10	<2	7
DXR5112	<10	6	174	27.1	<10	<2	8
DXR5113	<10	8	164	32.1	<10	<2	5
DXR5114	<10	<5	213	30.4	<10	<2	11
DXR5115	<10	5	276	31.1	<10	<2	<3
DXR5116	<10	<5	230	32.8	<10	<2	13
DXR5117	<10	<5	217	27.9	<10	<2	<3
DXR5118	<10	5	269	30.1	<10	<2	4
DXR5119	<10	<5	219	25.7	<10	<2	10
DXR5120	<10	<5	262	29.5	<10	<2	3
DXR5121	<10	<5	845	22.3	<10	<2	7
DXR5122	<10	6	444	20.4	<10	<2	9
DXR5123	<10	9	2430	31.8	<10	<2	<3
DXR5124	<10	<5	1160	29.6	<10	<2	7
DXR5125	<10	7	877	24.8	<10	<2	5

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SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
DXR5127	<10	10	1240	6.3	15	<2	<3
DXR5128	<10	13	855	29.6	15	<2	<3
DXR5129	<10	15	1000	31.9	28	<2	<3
DXR5130	<10	14	666	30.3	33	<2	<3
DXR5131	<10	14	476	30.7	18	<2	5
DXR5132	<10	19	739	27.4	44	9	<3
DXR5134	<10	14	920	28.2	38	<2	<3
DXR5135	<10	11	872	31.8	37	<2	<3
DXR5136	<10	16	1100	29.5	44	<2	<3
DXR5137	<10	9	1310	30.3	22	<2	<3
DXR5138	<10	10	712	28.3	22	<2	<3
DXR5139	<10	15	137	20.7	<10	3	8
DXR5140	<10	13	89	21.5	<10	3	7
DXR5141	<10	17	54	2.4	<10	19	10
DXR5142	<10	9	81	19.7	<10	<2	8
DXR5143	<10	10	56	1.8	<10	<2	3
DXR5144	<10	8	14	1.7	<10	<2	<3
DXR5146	<10	8	266	3.8	<10	<2	4
DXR5147	<10	19	729	17.8	<10	<2	<3
DXR5148	<10	11	41	2.4	<10	<2	13
DXR5149	<10	9	110	5.9	<10	<2	<3
DXR5150	<10	7	179	7.0	<10	<2	7
DXR5151	<10	10	98	6.0	17	<2	INF
DXR5152	<10	9	50	5.5	<10	<2	5
DXR5153	<10	<5	50	7.5	<10	<2	7
DXR5154	<10	18	161	10.4	<10	20	INF
DXR5155	<10	8	229	19.0	42	<2	<3
DXR5156	<10	8	288	15.0	29	<2	<3
DXR5157	<10	9	390	16.2	21	<2	14
DXR5158	<10	8	412	17.0	<10	<2	<3
DXR5159	<10	8	422	13.9	10	<2	7
DXR5160	<10	5	276	16.1	20	<2	<3
DXR5161	<10	8	194	17.3	38	<2	6
DXR5162	<10	9	208	17.3	23	38	296
DXR5163	<10	9	185	14.6	21	<2	<3
DXR5165	<10	8	207	15.9	10	<2	5
DXR5166	<10	<5	218	17.1	<10	<2	10
DXR5167	<10	7	316	14.6	14	<2	<3
DXR5168	<10	7	380	17.0	<10	<2	5
DXR5169	<10	7	675	15.1	<10	<2	10

INF - COMPOSITION MAKES DETECTION IMPOSSIBLE BY THIS METHOD

XRAL 12-DEC-94 REPORT 30599 WORKORDER 1996-FL

SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
DXR5170	<10	9	474	16.0	<10	<2	12
DXR5171	<10	11	449	17.3	<10	<2	10
DXR5172	<10	9	586	16.3	<10	<2	<3
DXR5173	<10	9	740	16.8	<10	<2	<3
DXR5174	<10	9	448	16.4	<10	<2	<3
DXR5175	<10	7	304	17.4	<10	<2	<3
DXR5176	<10	11	523	18.7	<10	<2	<3
DXR5177	<10	14	522	17.3	<10	<2	15
DXR5178	<10	13	528	16.0	<10	<2	<3
DXR5179	<10	11	438	16.7	10	<2	<3
DXR5180	<10	15	343	16.6	<10	<2	<3
DXR5181	<10	11	260	15.2	10	<2	5
DXR5182	<10	6	204	23.4	<10	<2	16
DXR5183	<10	8	197	17.4	<10	<2	6
DXR5184	<10	6	271	17.6	<10	<2	<3
DXR5185	<10	7	233	18.8	<10	<2	13
DXR5186	<10	12	199	17.0	<10	<2	<3
DXR5188	<10	<5	196	15.5	<10	<2	<3
DXR5189	<10	7	290	16.5	<10	<2	<3
DXR5190	<10	10	229	15.8	<10	<2	6
DXR5191	<10	6	224	16.1	<10	<2	11
DXR5192	<10	8	218	16.3	<10	<2	<3
DXR5193	<10	6	293	15.4	<10	<2	10
DXR5194	<10	14	323	17.8	<10	<2	8
DXR5195	<10	9	293	17.5	<10	<2	6
DXR5196	<10	9	435	17.0	<10	<2	9
DXR5197	<10	9	340	16.1	<10	<2	12
DXR5198	<10	<5	161	16.3	<10	<2	3
DXR5199	<10	9	328	23.0	10	<2	3
DXR5200	<10	6	343	17.0	17	<2	8
DXR5201	<10	<5	323	16.7	<10	<2	7
DXR5202	<10	<5	298	15.8	<10	<2	10
DXR5203	<10	7	266	18.9	<10	<2	11
DXR5204	<10	6	236	17.5	<10	<2	<3
DXR5205	<10	6	271	18.2	<10	<2	12
DXR5206	<10	7	238	17.6	<10	<2	7
DXR5207	<10	<5	339	17.7	27	<2	6
DXR5208	<10	<5	389	18.7	11	<2	<3
DXR5209	<10	7	522	25.6	13	<2	10
DXR5210	<10	<5	288	16.7	22	<2	7

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SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
DXR5211	<10	10	246	15.7	22	<2	8
DXR5212	<10	6	320	19.1	13	<2	<3
DXR5213	<10	5	299	23.9	21	44	15
DXR5214	<10	5	271	16.9	<10	<2	5
DXR5215	<10	<5	242	18.3	<10	<2	17
DXR5216	<10	7	266	16.3	<10	<2	4
DXR5217	<10	5	208	16.1	<10	<2	5
DXR5218	<10	<5	200	17.8	<10	<2	15
DXR5219	<10	<5	204	17.7	21	<2	4
DXR5220	<10	<5	217	18.9	<10	<2	9
DXR5222	<10	5	221	16.8	<10	<2	4
DXR5223	<10	<5	220	15.1	<10	<2	4
DXR5224	<10	<5	185	16.1	10	<2	<3
DXR5225	<10	<5	609	16.4	<10	<2	8
DXR5226	<10	<5	264	13.1	<10	<2	8
DXR5227	<10	<5	298	13.4	<10	<2	8
DXR5228	<10	<5	366	12.8	<10	<2	4
DXR5229	<10	<5	235	15.9	<10	2	11
DXR5230	<10	<5	270	8.2	<10	3	34
DXR5231	<10	<5	265	13.6	<10	<2	6
DXR5232	<10	6	249	10.3	<10	<2	<3
DXR5233	<10	5	203	12.1	<10	<2	<3
DXR5234	<10	<5	226	17.1	<10	<2	7
DXR5235	<10	<5	190	14.4	<10	<2	9
DXR5236	<10	<5	261	13.3	<10	<2	4
DXR5237	<10	6	238	11.8	<10	<2	5
DXR5238	<10	<5	281	13.6	<10	<2	5
DXR5239	<10	<5	359	13.2	<10	<2	<3
DXR5240	<10	<5	232	12.5	<10	<2	4
DXR5241	<10	<5	248	12.5	<10	<2	<3
DXR5242	<10	<5	479	10.5	<10	<2	15
DXR5243	<10	6	377	14.0	<10	<2	11
DXR5244	<10	<5	245	13.8	<10	<2	8
DXR5245	<10	<5	258	12.3	<10	<2	7
DXR5246	<10	<5	248	13.1	<10	<2	7
DXR5248	<10	<5	255	25.5	<10	<2	<3
DXR5249	<10	<5	370	15.9	62	<2	5
DXR5250	<10	<5	483	12.3	<10	<2	4
DXR5501	<10	<5	579	12.6	<10	<2	<3
DXR5502	<10	<5	504	16.6	<10	<2	4

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SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
DXR5503	<10	<5	515	13.3	<10	<2	11
DXR5504	<10	<5	628	12.1	<10	<2	<3
DXR5505	<10	<5	340	17.7	<10	<2	3
DXR5507	<10	<5	324	17.1	<10	<2	<3
DXR5508	<10	<5	288	17.5	<10	<2	<3
DXR5509	<10	<5	178	16.5	<10	<2	4
DXR5510	<10	<5	186	17.0	<10	<2	5
DXR5512	<10	<5	290	21.5	17	<2	3
DXR5513	<10	<5	262	19.6	<10	<2	10
DXR5515	<10	<5	213	17.1	<10	<2	<3
DXR5516	<10	<5	109	16.1	<10	<2	<3
DXR5517	<10	9	57	18.3	70	<2	INF
DXR5518	<10	<5	44	15.4	78	<2	INF
DXR5519	<10	<5	86	15.4	40	<2	8
DXR5520	<10	6	101	15.0	<10	<2	<3
DXR5521	<10	<5	170	19.1	<10	<2	15
DXR5522	<10	<5	155	17.2	<10	<2	6
DXR5523	<10	<5	122	15.4	<10	<2	4
DXR5524	<10	<5	326	17.1	<10	<2	4
DXR5525	<10	<5	198	16.9	<10	<2	5
DXR5526	<10	<5	89	16.4	926	<2	48
DXR5527	<10	7	217	17.8	<10	<2	7
DXR5528	<10	<5	287	16.6	<10	<2	9
DXR5529	<10	<5	1110	58.3	<10	<2	4
DXR5530	<10	<5	1100	55.4	<10	<2	8
DXR5531	<10	<5	176	22.8	<10	<2	9
DXR5532	<10	<5	232	10.3	<10	<2	<3
DXR5533	<10	<5	226	11.7	<10	<2	10
DXR5534	<10	<5	326	20.1	<10	<2	7
DXR5535	<10	<5	306	16.4	<10	<2	3
DXR5536	<10	6	301	12.3	<10	<2	8
DXR5537	<10	<5	221	12.7	<10	<2	5
DXR5538	<10	<5	226	14.5	<10	<2	<3
DXR5539	<10	<5	323	19.4	<10	<2	9
DXR5540	<10	<5	943	30.7	<10	<2	3
D DXR5000	<10	5	373	11.1	<10	<2	47
D DXR5013	<10	6	268	12.5	<10	<2	4
D DXR5026	<10	<5	228	14.6	<10	<2	11
D DXR5039	<10	<5	327	23.4	<10	<2	5
D DXR5049	<10	<5	911	25.1	<10	<2	6

D - QUALITY CONTROL DUPLICATE
INF - COMPOSITION MAKES DETECTION IMPOSSIBLE BY THIS METHOD

XRAL

12-DEC-94 REPORT 30599 WORKORDER 1996-FL

SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
D DXR5062	<10	<5	204	31.4	<10	<2	4
D DXR5075	<10	<5	319	26.5	<10	<2	4
D DXR5087	<10	7	367	25.4	<10	<2	5
D DXR5098	<10	<5	221	23.0	<10	<2	6
D DXR5110	<10	<5	136	25.7	<10	<2	8
D DXR5122	<10	<5	457	23.2	<10	<2	7
D DXR5136	<10	11	1210	34.2	56	<2	3
D DXR5147	<10	6	786	19.5	<10	<2	<3
D DXR5159	<10	<5	429	13.5	<10	<2	3
D DXR5172	<10	<5	624	18.5	<10	<2	4
D DXR5184	<10	<5	280	15.6	<10	<2	<3
D DXR5195	<10	7	294	16.3	<10	<2	4
D DXR5207	<10	<5	331	18.2	26	<2	10
D DXR5219	<10	<5	211	18.5	25	<2	7
D DXR5232	<10	6	251	8.7	<10	<2	<3
D DXR5242	<10	<5	474	10.1	<10	<2	16
D DXR5505	<10	<5	348	17.4	<10	<2	<3
D DXR5520	<10	<5	103	16.1	25	<2	6
D DXR5532	<10	<5	238	12.1	<10	<2	4

D - QUALITY CONTROL DUPLICATE

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ont.
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS
REPORT 30538

TO: ROYAL OAK MINES INC.
ATTN: R. PRESSACCO
P.O. BAG 2010
TIMMINS, ONTARIO
P4N 7X7

CUSTOMER No. 2226

DATE SUBMITTED
29-Nov-94

TOTAL PAGES 16

WORKORDER 2060-FL

146 PULPS

	METHOD	DETECTION LIMIT	METHOD CODE
BE PPM	ICP	.5	80-1
NA %	ICP	.01	80-1
MG %	ICP	.01	80-1
AL %	ICP	.01	80-1
P %	ICP	.01	80-1
K %	ICP	.01	80-1
CA %	ICP	.01	80-1
SC PPM	ICP	.5	80-1
TI %	ICP	.01	80-1
V PPM	ICP	2.	80-1
CR PPM	ICP	1.	80-1
MN PPM	ICP	2.	80-1
FE %	ICP	.01	80-1
CO PPM	ICP	1.	80-1
NI PPM	ICP	1.	80-1
CU PPM	ICP	.5	80-1
ZN PPM	ICP	.5	80-1
AS PPM	ICP	3.	80-1
SR PPM	ICP	.5	80-1
Y PPM	ICP	.1	80-1
ZR PPM	ICP	.5	80-1
MO PPM	ICP	1.	80-1
AG PPM	ICP	.1	80-1
CD PPM	ICP	1.	80-1
SN PPM	ICP	10.	80-1
SB PPM	ICP	5.	80-1
BA PPM	ICP	1.	80-1
LA PPM	ICP	.5	80-1
W PPM	ICP	10.	80-1
PB PPM	ICP	2.	80-1
BI PPM	ICP	3.	80-1

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD PULPS IN 90 DAYS ***
AND REJECTS IN 30 DAYS FROM THE DATE OF THIS REPORT

CERTIFIED BY

Jean H. Opdebeeck, General Manager

DATE 08-DEC-94

XRAL

08-DEC-94 REPORT 30538 WORKORDER 2060-FL

SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
LM94-7 DXR5581	2.8	2.88	3.00	7.11	.07	1.84	4.51	20.1
LM94-7 DXR5582	2.3	2.86	2.94	6.95	.16	1.35	4.90	17.3
LM94-7 DXR5583	2.6	2.69	3.43	7.67	.18	2.41	5.66	19.3
LM94-7 DXR5584	2.2	2.38	2.89	7.36	.18	3.09	4.48	18.0
LM94-7 DXR5585	2.1	2.70	3.35	7.68	.20	3.06	4.97	21.0
LM94-7 DXR5586	1.7	2.38	3.12	7.36	.17	2.41	5.01	20.8
LM94-7 DXR5587	1.1	2.62	1.95	8.00	.10	1.07	5.87	26.5
LM94-7 DXR5588	1.5	2.99	2.21	7.22	.13	.39	6.23	20.5
LM94-7 DXR5589	1.3	2.09	3.10	8.01	.09	.81	6.33	19.8
LM94-7 DXR5590	.6	1.22	3.01	8.30	.03	.75	7.57	20.2
LM94-7 DXR5591	.7	1.57	1.69	8.21	.07	.88	6.47	35.7
LM94-7 DXR5592	.8	1.78	1.04	7.94	.10	1.71	4.88	9.3
LM94-7 DXR5594	1.0	2.69	1.26	7.54	.10	1.64	5.05	9.1
LM94-7 DXR5595	.9	1.91	1.08	7.22	.09	2.33	4.50	7.0
LM94-7 DXR5596	1.2	2.01	1.07	8.83	.11	2.38	3.86	8.1
LM94-7 DXR5597	1.0	1.49	1.11	7.59	.09	2.71	7.75	9.0
LM94-7 DXR5598	1.1	1.23	1.19	8.32	.11	3.69	4.73	8.4
LM94-7 DXR5599	1.1	1.52	1.19	8.48	.12	3.47	4.09	8.8
LM94-7 DXR5600	1.0	.88	.90	5.89	.11	2.24	3.22	6.8
LM94-7 DXR5601	1.1	.67	1.31	8.10	.10	3.70	4.78	9.6
LM94-7 DXR5602	1.0	1.43	1.28	8.80	.11	3.23	5.35	9.6
LM94-7 DXR5603	.9	3.09	1.31	8.20	.10	2.20	3.84	8.6
LM94-7 DXR5604	1.0	3.20	1.16	6.81	.10	1.85	4.35	6.8
LM94-7 DXR5605	1.1	3.14	1.38	8.94	.12	1.52	4.15	9.7
LM94-7 DXR5606	.9	2.50	1.07	7.99	.10	2.27	4.48	8.4
LM94-7 DXR5608	1.0	2.59	1.36	8.50	.11	1.54	4.25	10.0
LM94-7 DXR5609	2.2	2.41	3.58	7.24	.19	2.23	5.55	20.1
LM94-7 DXR5610	1.9	2.54	3.47	7.73	.19	2.47	5.70	21.1
LM94-7 DXR5611	1.5	3.96	1.80	8.97	.13	3.10	4.02	17.2
LM94-7 DXR5612	1.9	2.89	3.02	7.35	.19	1.51	5.74	19.0
LM94-7 DXR5613	1.2	3.21	1.32	9.32	.12	1.36	4.93	10.6
LM94-7 DXR5615	1.0	3.00	1.41	9.11	.12	1.30	5.35	10.5
LM94-7 DXR5616	.9	2.66	1.11	8.59	.11	1.31	4.40	9.8
LM94-7 DXR5617	.9	1.99	1.24	8.99	.11	2.63	4.37	9.5
LM94-7 DXR5618	1.0	2.18	1.20	9.02	.12	2.49	5.24	9.9
LM94-7 DXR5619	1.1	1.60	1.04	9.35	.12	2.85	4.60	8.7
LM94-7 DXR5620	1.0	1.09	.63	6.98	.07	2.37	2.65	5.9
LM94-7 DXR5621	.5	.19	.91	4.81	.06	1.43	2.35	3.0
LM94-7 DXR5622	1.3	.51	.98	8.73	.11	4.19	4.54	9.3
LM94-7 DXR5623	.8	.82	.93	5.63	.07	2.05	5.28	6.9

XRAL

08-DEC-94 REPORT 30538 WORKORDER 2060-FL

SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
LM94-7 DXR5624	1.3	1.71	.88	10.0	.12	3.87	3.79	9.8
LM94-7 DXR5625	.7	.60	1.48	4.89	.07	1.80	7.80	6.4
LM94-7 DXR5626	.6	.81	1.07	5.17	.07	1.71	5.66	6.4
LM94-7 DXR5628	.9	1.08	.99	8.36	.10	2.71	5.32	8.9
LM94-7 DXR5629	1.0	1.85	1.18	8.96	.11	2.24	3.82	9.5
LM94-7 DXR5630	.9	2.55	1.10	7.44	.10	1.92	3.83	7.7
LM94-7 DXR5631	1.0	2.49	1.13	8.72	.11	2.09	5.21	9.3
LM94-7 DXR5632	.8	2.56	1.11	7.82	.10	1.76	5.10	8.0
LM94-7 DXR5635	.8	2.25	.69	9.05	.11	2.70	3.46	9.8
LM94-7 DXR5636	.8	1.85	1.16	8.27	.10	1.46	5.01	8.9
LM94-7 DXR5637	1.0	1.66	1.12	9.08	.11	2.29	4.81	9.5
LM94-7 DXR5638	1.0	1.77	1.20	9.11	.12	2.08	4.47	10.4
LM94-7 DXR5639	1.2	2.65	1.43	8.23	.11	1.67	3.30	9.2
LM94-7 DXR5640	.9	2.45	1.19	8.04	.11	1.04	4.09	9.1
LM94-7 DXR5641	.9	2.61	.91	7.42	.10	1.07	4.26	7.5
LM94-8 DXR5642	.5	1.63	1.05	5.64	.06	.50	12.9	8.4
LM94-8 DXR5643	.8	2.31	1.06	7.14	.08	.92	7.56	10.4
LM94-8 DXR5644	.7	1.57	1.08	6.63	.07	1.13	7.82	9.9
LM94-8 DXR5645	.8	2.08	2.72	6.26	.11	.44	7.31	19.0
LM94-8 DXR5647	.7	1.71	1.22	5.87	.07	.87	12.3	11.2
LM94-8 DXR5648	.8	2.29	.82	7.97	.09	1.23	8.55	10.4
LM94-8 DXR5649	.7	2.12	.92	8.00	.08	1.28	6.64	11.0
LM94-8 DXR5650	.6	1.71	1.60	8.00	.09	1.24	5.45	13.8
LM94-8 DXR5652	.6	2.12	1.04	7.70	.08	1.03	5.33	13.8
LM94-8 DXR5653	.6	1.78	1.31	6.51	.07	.86	8.39	12.1
LM94-8 DXR5654	.6	1.87	1.89	7.19	.08	.71	4.96	13.6
LM94-8 DXR5655	.8	1.90	1.62	7.10	.08	1.09	5.28	12.6
LM94-8 DXR5656	.8	1.82	1.80	6.71	.08	1.27	4.69	11.2
LM94-8 DXR5657	.9	1.52	1.03	6.98	.08	1.92	2.50	11.6
LM94-8 DXR5658	1.2	1.28	.53	7.65	.08	2.33	1.03	17.2
LM94-8 DXR5659	1.2	1.09	.88	7.17	.05	2.25	1.71	21.5
LM94-8 DXR5660	1.6	1.25	.68	4.70	.06	2.10	1.12	17.8
LM94-8 DXR5661	1.6	2.96	2.04	8.07	.16	1.79	4.86	9.6
LM94-8 DXR5662	1.7	2.74	2.10	8.10	.16	1.64	4.58	10.0
LM94-8 DXR5663	1.6	2.21	2.08	7.10	.15	1.56	4.95	8.8
LM94-8 DXR5664	1.9	.85	1.69	7.32	.12	2.23	3.83	14.1
LM94-8 DXR5665	1.7	1.90	1.82	7.81	.16	2.16	4.32	9.4
LM94-8 DXR5666	1.7	1.92	1.93	7.92	.17	2.23	4.95	9.6
LM94-8 DXR5667	1.5	2.17	2.20	7.53	.15	1.94	5.79	9.2
LM94-8 DXR5668	1.4	2.20	1.76	7.77	.16	2.06	4.29	9.8

XRAL

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SAMPLE	BE PPM ICP 80-1	NA % ICP 80-1	MG % ICP 80-1	AL % ICP 80-1	P % ICP 80-1	K % ICP 80-1	CA % ICP 80-1	SC PPM ICP 80-1
LM94-8 DXR5669	1.1	2.18	2.07	7.17	.16	1.98	4.76	9.3
LM94-8 DXR5670	1.7	1.06	1.43	6.94	.08	2.41	2.41	17.1
LM94-8 DXR5671	1.0	2.55	1.72	6.50	.14	.99	3.57	7.4
LM94-8 DXR5672	1.4	3.82	2.18	8.59	.19	1.13	4.56	10.2
LM94-8 DXR5673	1.4	3.23	1.93	7.12	.15	.87	4.02	8.6
LM94-8 DXR5674	1.5	2.87	1.87	7.26	.16	1.50	3.73	9.4
LM94-8 DXR5675	1.7	1.02	.67	7.52	.07	2.72	2.56	15.1
LM94-8 DXR5676	1.4	1.10	.94	7.40	.08	2.95	1.84	15.6
LM94-8 DXR5677	<.5	1.52	1.00	6.37	.06	1.57	1.54	7.9
LM94-8 DXR5678	.8	2.11	1.19	7.51	.08	1.48	3.12	11.4
LM94-8 DXR5679	.8	1.87	1.04	7.52	.08	1.37	3.78	12.3
LM94-8 DXR5680	.8	2.27	1.18	8.45	.10	1.47	3.41	13.2
LM94-8 DXR5681	.8	2.40	1.21	8.58	.11	1.29	3.30	12.6
LM94-8 DXR5682	.7	2.26	1.30	7.88	.10	.91	4.03	11.2
LM94-8 DXR5683	.7	1.95	1.25	7.47	.08	1.24	4.20	15.1
LM94-8 DXR5684	.6	1.84	1.42	7.14	.08	.90	6.54	13.5
LM94-8 DXR5686	<.5	1.69	1.77	7.22	.09	.51	4.17	15.1
LM94-8 DXR5687	.6	2.03	1.28	7.10	.08	.74	3.38	12.9
LM94-8 DXR5688	.7	1.54	.67	5.72	.06	.94	3.00	8.1
LM94-8 DXR5689	.6	.88	.46	4.08	.04	.75	2.82	5.7
LM94-8 DXR5690	.7	3.03	1.15	8.09	.10	1.11	2.46	11.6
LM94-8 DXR5691	.7	2.43	1.31	7.45	.11	1.09	3.17	12.7
LM94-8 DXR5692	.8	2.20	1.10	7.24	.08	1.10	2.62	12.0
LM94-8 DXR5693	.8	2.21	1.21	7.44	.09	1.27	3.55	12.2
LM94-8 DXR5694	.7	1.96	.86	6.94	.09	1.00	4.34	10.5
LM94-8 DXR5696	.7	1.64	.90	6.87	.09	1.16	6.18	9.6
D LM94-7 DXR5541	<.5	2.21	1.97	7.39	.07	.41	7.19	39.0
D LM94-7 DXR5553	<.5	1.87	2.18	6.60	.06	.52	7.26	34.1
D LM94-7 DXR5565	1.0	2.93	2.45	7.65	.13	1.68	4.45	20.3
D LM94-7 DXR5577	1.1	.09	2.84	4.30	.07	2.36	6.00	11.4
D LM94-7 DXR5587	1.2	2.46	1.95	8.07	.10	1.04	6.14	27.9
D LM94-7 DXR5600	1.0	.83	.87	5.59	.11	2.08	3.11	6.5
D LM94-7 DXR5613	1.1	3.00	1.25	8.67	.11	1.28	4.73	9.5
D LM94-7 DXR5626	.6	.78	1.04	5.07	.07	1.61	5.59	6.4
D LM94-7 DXR5639	1.1	2.47	1.39	8.02	.11	1.58	3.28	9.4
D LM94-8 DXR5653	.6	1.63	1.26	6.20	.07	.81	8.34	11.6
D LM94-8 DXR5665	1.8	1.81	1.83	7.88	.17	2.17	4.46	9.6
D LM94-8 DXR5677	.6	1.27	.94	5.99	.06	1.47	1.45	7.5
D LM94-8 DXR5688	.7	1.59	.71	6.02	.07	.98	3.26	8.3

D - QUALITY CONTROL DUPLICATE

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
LM94-7 DXR5541	1.12	426	389	1350	8.81	49	79	191
LM94-7 DXR5542	1.16	435	390	1610	9.41	79	87	348
LM94-7 DXR5543	1.17	443	439	1500	9.47	59	85	487
LM94-7 DXR5544	1.00	373	309	1390	10.1	33	87	192
LM94-7 DXR5545	1.07	406	288	1560	9.92	64	77	228
LM94-7 DXR5546	1.10	423	401	1610	11.6	54	83	417
LM94-7 DXR5547	.49	199	140	971	5.58	21	22	90.6
LM94-7 DXR5548	.50	213	111	952	5.58	24	20	185
LM94-7 DXR5549	.50	199	112	906	5.70	24	23	612
LM94-7 DXR5550	.47	199	101	929	6.04	21	24	323
LM94-7 DXR5551	1.00	395	384	982	11.9	57	75	314
LM94-7 DXR5552	.93	389	535	1150	15.0	111	82	329
LM94-7 DXR5553	1.06	418	478	1540	12.4	73	82	192
LM94-7 DXR5554	1.09	425	629	1600	11.0	52	75	232
LM94-7 DXR5555	1.15	446	721	1550	11.9	77	109	521
LM94-7 DXR5556	.69	278	315	1480	7.61	27	41	272
LM94-7 DXR5557	.72	302	619	1170	7.72	48	74	190
LM94-7 DXR5558	.94	373	539	1420	9.55	55	82	240
LM94-7 DXR5559	.45	211	199	1230	6.27	25	35	152
LM94-7 DXR5560	.89	364	277	1290	9.11	40	70	192
LM94-7 DXR5561	.97	391	210	1360	8.63	36	74	213
LM94-7 DXR5562	1.10	429	424	1360	10.2	45	85	227
LM94-7 DXR5563	.88	343	298	1310	8.79	40	71	302
LM94-7 DXR5564	.69	241	297	1030	6.30	26	54	176
LM94-7 DXR5565	.53	206	195	913	4.85	19	27	133
LM94-7 DXR5566	.42	190	222	878	5.08	22	27	139
LM94-7 DXR5567	.25	227	243	1510	5.62	31	44	96.9
LM94-7 DXR5568	.68	373	272	1540	8.84	29	72	104
LM94-7 DXR5569	.56	363	121	1350	8.96	40	69	131
LM94-7 DXR5570	.56	371	165	1440	9.08	45	76	301
LM94-7 DXR5571	.29	193	178	809	5.18	28	24	94.8
LM94-7 DXR5572	.51	386	171	1460	9.17	53	73	340
LM94-7 DXR5573	.64	378	229	1760	9.34	44	72	130
LM94-7 DXR5574	.63	353	184	1570	8.73	39	70	160
LM94-7 DXR5575	.45	320	278	1270	7.23	39	60	217
LM94-7 DXR5576	.39	307	277	1210	6.93	42	76	464
LM94-7 DXR5577	.11	185	305	990	4.35	29	101	242
LM94-7 DXR5578	.30	257	234	919	6.33	43	139	777
LM94-7 DXR5579	.05	158	249	862	3.81	17	99	54.2
LM94-7 DXR5580	.06	203	515	435	2.44	18	77	215

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
LM94-7 DXR5581	.41	238	209	886	4.65	24	116	105
LM94-7 DXR5582	.22	167	70	731	4.46	24	26	72.2
LM94-7 DXR5583	.42	204	115	901	5.25	30	45	128
LM94-7 DXR5584	.43	195	148	796	5.12	31	30	238
LM94-7 DXR5585	.46	204	171	878	5.51	25	40	30.7
LM94-7 DXR5586	.45	187	219	974	5.64	28	45	74.8
LM94-7 DXR5587	.79	245	296	770	5.63	20	94	86.6
LM94-7 DXR5588	.55	184	285	846	5.44	20	64	96.1
LM94-7 DXR5589	.44	178	339	1010	7.38	39	110	128
LM94-7 DXR5590	.47	178	330	1140	8.07	36	143	91.3
LM94-7 DXR5591	.84	313	696	724	6.58	43	112	152
LM94-7 DXR5592	.44	98	263	393	3.82	16	25	90.8
LM94-7 DXR5594	.38	94	159	431	3.85	14	23	87.2
LM94-7 DXR5595	.24	72	117	320	3.43	11	13	93.6
LM94-7 DXR5596	.33	87	244	301	3.58	5	16	64.2
LM94-7 DXR5597	.28	85	240	591	4.00	11	20	59.3
LM94-7 DXR5598	.33	92	187	473	3.70	11	17	63.8
LM94-7 DXR5599	.35	90	117	453	3.67	11	17	33.6
LM94-7 DXR5600	.16	108	378	334	4.00	28	37	16.6
LM94-7 DXR5601	.29	92	91	513	3.80	17	16	26.1
LM94-7 DXR5602	.38	95	114	398	4.25	16	16	48.2
LM94-7 DXR5603	.34	87	126	326	3.63	12	18	71.8
LM94-7 DXR5604	.38	92	140	327	3.61	13	16	93.8
LM94-7 DXR5605	.50	111	354	384	4.74	15	21	100
LM94-7 DXR5606	.45	94	176	386	3.58	9	18	46.7
LM94-7 DXR5608	.45	102	292	689	5.52	24	25	181
LM94-7 DXR5609	.43	191	185	1120	5.60	24	36	157
LM94-7 DXR5610	.45	189	191	971	5.64	24	33	8.8
LM94-7 DXR5611	.51	155	140	605	5.26	12	26	17.0
LM94-7 DXR5612	.46	173	81	912	5.41	19	23	57.0
LM94-7 DXR5613	.52	115	258	420	4.46	16	22	312
LM94-7 DXR5615	.50	112	346	623	4.77	14	21	63.4
LM94-7 DXR5616	.45	101	267	476	4.46	16	20	179
LM94-7 DXR5617	.35	93	169	414	4.53	13	14	107
LM94-7 DXR5618	.40	98	146	488	4.67	17	14	181
LM94-7 DXR5619	.33	93	98	463	4.24	19	17	96.5
LM94-7 DXR5620	.27	111	444	313	2.74	12	36	26.8
LM94-7 DXR5621	.21	91	539	290	4.05	17	29	183
LM94-7 DXR5622	.40	116	83	573	3.73	9	11	29.8
LM94-7 DXR5623	.20	85	368	662	3.60	16	20	57.3

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
LM94-7 DXR5624	.36	107	118	542	3.45	15	12	324
LM94-7 DXR5625	.19	76	393	1030	4.88	14	22	55.3
LM94-7 DXR5626	.18	70	300	804	3.74	12	19	31.8
LM94-7 DXR5628	.32	81	54	589	4.05	12	11	8.2
LM94-7 DXR5629	.29	91	88	524	4.54	12	12	28.1
LM94-7 DXR5630	.26	83	111	517	4.07	10	14	22.5
LM94-7 DXR5631	.27	92	149	642	4.50	17	18	173
LM94-7 DXR5632	.26	78	96	633	3.90	16	13	104
LM94-7 DXR5635	.49	116	276	255	3.09	24	43	128
LM94-7 DXR5636	.44	94	334	393	3.73	15	24	63.2
LM94-7 DXR5637	.50	96	157	357	3.62	10	15	38.2
LM94-7 DXR5638	.50	107	371	358	4.21	17	19	88.8
LM94-7 DXR5639	.42	108	276	421	4.61	17	21	119
LM94-7 DXR5640	.43	102	326	417	4.42	19	26	57.9
LM94-7 DXR5641	.41	95	318	361	3.41	16	27	94.2
LM94-8 DXR5642	.18	77	20	2810	5.10	13	3	19.7
LM94-8 DXR5643	.21	92	106	1920	4.94	17	12	33.8
LM94-8 DXR5644	.18	87	83	1730	4.10	12	10	39.1
LM94-8 DXR5645	.28	149	112	1490	5.61	25	29	77.6
LM94-8 DXR5647	.22	93	35	2350	4.25	12	5	29.8
LM94-8 DXR5648	.21	106	45	1800	4.46	12	6	32.7
LM94-8 DXR5649	.21	94	133	1530	4.72	20	19	53.5
LM94-8 DXR5650	.19	111	159	1300	5.66	20	17	41.4
LM94-8 DXR5652	.24	111	102	1350	4.80	14	10	39.1
LM94-8 DXR5653	.17	97	254	1520	4.55	15	11	40.0
LM94-8 DXR5654	.14	110	371	1210	6.58	19	18	57.2
LM94-8 DXR5655	.16	96	165	1570	5.84	20	16	35.5
LM94-8 DXR5656	.19	98	306	1770	6.10	17	15	58.2
LM94-8 DXR5657	.21	100	448	1110	6.63	31	46	71.1
LM94-8 DXR5658	.22	105	372	249	5.89	68	212	257
LM94-8 DXR5659	.15	130	217	473	4.71	56	166	389
LM94-8 DXR5660	.18	109	348	238	5.27	76	244	515
LM94-8 DXR5661	.21	131	484	918	3.70	18	24	65.3
LM94-8 DXR5662	.18	124	211	821	3.63	17	21	63.0
LM94-8 DXR5663	.17	116	234	892	3.22	18	21	57.2
LM94-8 DXR5664	.17	126	762	749	5.76	45	122	195
LM94-8 DXR5665	.20	124	263	765	3.40	18	20	66.3
LM94-8 DXR5666	.18	125	150	791	3.29	19	27	58.6
LM94-8 DXR5667	.20	119	176	928	3.54	16	23	47.7
LM94-8 DXR5668	.20	128	435	766	4.15	21	31	67.3

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SAMPLE	TI % ICP 80-1	V PPM ICP 80-1	CR PPM ICP 80-1	MN PPM ICP 80-1	FE % ICP 80-1	CO PPM ICP 80-1	NI PPM ICP 80-1	CU PPM ICP 80-1
LM94-8 DXR5669	.16	117	168	988	4.73	18	30	71.8
LM94-8 DXR5670	.21	122	355	519	6.19	54	193	333
LM94-8 DXR5671	.16	119	324	661	3.30	19	30	45.6
LM94-8 DXR5672	.25	140	208	826	3.98	17	22	53.8
LM94-8 DXR5673	.20	114	205	808	3.25	16	17	43.9
LM94-8 DXR5674	.20	122	152	852	3.57	20	35	59.6
LM94-8 DXR5675	.21	119	694	453	3.54	33	94	169
LM94-8 DXR5676	.22	128	690	463	3.97	32	113	95.9
LM94-8 DXR5677	.16	105	770	565	15.1	32	56	78.8
LM94-8 DXR5678	.31	116	137	1120	4.92	17	19	24.8
LM94-8 DXR5679	.25	110	152	1160	4.39	16	13	32.0
LM94-8 DXR5680	.40	107	29	1070	5.08	11	8	28.0
LM94-8 DXR5681	.40	110	74	1100	5.44	12	9	33.4
LM94-8 DXR5682	.36	96	52	1250	6.07	11	8	32.3
LM94-8 DXR5683	.36	124	45	1040	4.81	16	17	36.6
LM94-8 DXR5684	.28	107	90	1660	5.31	19	21	50.7
LM94-8 DXR5686	.28	112	69	1650	7.48	20	26	27.9
LM94-8 DXR5687	.28	105	92	1180	6.12	20	25	30.7
LM94-8 DXR5688	.19	93	319	640	2.57	14	20	20.3
LM94-8 DXR5689	.13	85	309	584	1.72	8	25	15.6
LM94-8 DXR5690	.28	114	144	637	3.55	14	18	4.9
LM94-8 DXR5691	.18	114	191	683	3.78	16	39	13.5
LM94-8 DXR5692	.17	121	194	629	3.52	15	22	15.7
LM94-8 DXR5693	.18	125	101	854	3.44	14	19	42.9
LM94-8 DXR5694	.22	94	47	1320	4.16	10	6	36.6
LM94-8 DXR5696	.23	91	185	1770	4.80	11	4	40.2
D LM94-7 DXR5541	1.06	409	417	1300	8.42	48	74	177
D LM94-7 DXR5553	1.00	375	450	1400	11.2	67	74	173
D LM94-7 DXR5565	.48	193	214	866	4.59	21	25	125
D LM94-7 DXR5577	.10	172	324	932	4.10	24	95	229
D LM94-7 DXR5587	.81	253	332	814	5.89	24	97	85.6
D LM94-7 DXR5600	.18	108	343	321	3.86	27	38	13.9
D LM94-7 DXR5613	.46	109	237	386	4.08	16	21	280
D LM94-7 DXR5626	.19	72	320	797	3.69	12	19	31.4
D LM94-7 DXR5639	.39	105	246	423	4.59	17	18	114
D LM94-8 DXR5653	.16	95	240	1490	4.54	14	13	38.2
D LM94-8 DXR5665	.21	128	215	781	3.54	18	20	66.5
D LM94-8 DXR5677	.13	99	654	541	14.6	32	52	70.9
D LM94-8 DXR5688	.13	98	316	679	2.74	14	21	23.9

D - QUALITY CONTROL DUPLICATE

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
LM94-7 DXR5541	51.3	<3	395	20.0	33.0	2	.7	<1
LM94-7 DXR5542	43.7	7	320	21.7	39.3	7	<.1	<1
LM94-7 DXR5543	37.5	9	373	21.8	38.5	8	.1	<1
LM94-7 DXR5544	46.2	<3	306	21.2	29.3	3	.4	<1
LM94-7 DXR5545	45.4	<3	386	20.9	35.3	11	.3	<1
LM94-7 DXR5546	39.2	<3	414	20.9	30.1	6	.7	<1
LM94-7 DXR5547	50.4	<3	885	16.9	142	12	.6	<1
LM94-7 DXR5548	48.4	<3	1080	18.0	141	35	.2	<1
LM94-7 DXR5549	47.4	<3	1050	20.8	182	17	.4	<1
LM94-7 DXR5550	49.1	<3	836	18.5	159	6	.9	<1
LM94-7 DXR5551	27.4	<3	603	20.0	40.6	19	.5	<1
LM94-7 DXR5552	34.7	<3	388	20.1	31.4	22	.6	<1
LM94-7 DXR5553	43.9	9	400	20.9	24.9	8	.4	<1
LM94-7 DXR5554	43.5	<3	324	20.6	28.4	6	.4	<1
LM94-7 DXR5555	54.0	4	391	21.4	28.2	8	1.0	<1
LM94-7 DXR5556	63.2	<3	475	19.8	126	3	.6	<1
LM94-7 DXR5557	51.7	6	415	15.0	57.4	6	.5	<1
LM94-7 DXR5558	55.6	4	408	18.2	31.0	4	.3	<1
LM94-7 DXR5559	64.7	<3	552	15.7	117	4	.5	<1
LM94-7 DXR5560	55.1	<3	269	18.6	25.8	4	.5	<1
LM94-7 DXR5561	55.0	<3	246	18.3	22.6	3	.2	<1
LM94-7 DXR5562	51.4	<3	416	21.0	27.5	8	.4	<1
LM94-7 DXR5563	47.0	<3	416	18.2	26.3	6	<.1	<1
LM94-7 DXR5564	52.4	5	436	16.5	56.3	7	.4	<1
LM94-7 DXR5565	50.9	8	320	15.1	89.1	7	<.1	<1
LM94-7 DXR5566	47.3	<3	285	14.2	103	4	.2	<1
LM94-7 DXR5567	43.0	<3	190	11.2	81.3	47	<.1	<1
LM94-7 DXR5568	37.8	<3	140	8.1	21.6	421	.4	<1
LM94-7 DXR5569	66.5	<3	148	8.4	13.6	6	.3	<1
LM94-7 DXR5570	87.2	<3	165	10.8	18.1	8	.7	<1
LM94-7 DXR5571	62.4	<3	178	11.6	134	5	.7	<1
LM94-7 DXR5572	68.1	<3	163	7.7	17.6	10	.4	<1
LM94-7 DXR5573	40.8	<3	146	8.0	13.1	7	.2	<1
LM94-7 DXR5574	32.7	<3	166	6.9	12.5	17	.5	<1
LM94-7 DXR5575	28.0	<3	192	6.7	25.6	14	.4	<1
LM94-7 DXR5576	50.6	<3	181	6.1	25.8	88	1.2	<1
LM94-7 DXR5577	35.2	<3	179	7.8	51.4	180	1.6	<1
LM94-7 DXR5578	34.1	8	152	8.1	55.8	102	1.6	<1
LM94-7 DXR5579	37.3	<3	177	5.8	29.8	223	1.3	<1
LM94-7 DXR5580	16.1	<3	82.3	3.4	22.1	824	1.4	<1

XRAL

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
LM94-7 DXR5581	45.2	<3	211	11.2	82.9	39	.4	<1
LM94-7 DXR5582	61.1	<3	319	11.3	95.5	9	.3	<1
LM94-7 DXR5583	73.8	<3	480	12.8	106	11	.4	<1
LM94-7 DXR5584	56.3	<3	446	12.5	104	20	.8	<1
LM94-7 DXR5585	58.2	<3	505	13.4	109	21	1.0	<1
LM94-7 DXR5586	58.4	<3	702	16.8	118	28	1.1	<1
LM94-7 DXR5587	35.8	<3	814	21.5	82.3	23	.5	<1
LM94-7 DXR5588	39.3	<3	628	19.7	118	30	.5	<1
LM94-7 DXR5589	46.0	<3	600	11.4	64.7	49	.5	<1
LM94-7 DXR5590	48.1	<3	665	9.9	33.2	27	.5	<1
LM94-7 DXR5591	26.4	<3	627	17.4	42.1	165	.5	<1
LM94-7 DXR5592	16.3	<3	320	16.8	124	41	.6	<1
LM94-7 DXR5594	20.4	<3	240	13.1	117	22	.3	<1
LM94-7 DXR5595	15.5	<3	162	9.4	110	34	.6	<1
LM94-7 DXR5596	16.6	<3	167	9.5	139	7	.5	<1
LM94-7 DXR5597	10.5	<3	270	23.5	119	12	.1	<1
LM94-7 DXR5598	14.2	<3	177	11.3	133	24	.5	<1
LM94-7 DXR5599	38.1	<3	164	10.1	137	7	1.1	<1
LM94-7 DXR5600	19.3	<3	141	9.4	102	13	.3	<1
LM94-7 DXR5601	20.6	<3	146	9.6	129	15	.4	<1
LM94-7 DXR5602	22.0	<3	163	9.4	143	11	.5	<1
LM94-7 DXR5603	17.2	<3	170	8.7	132	14	.4	<1
LM94-7 DXR5604	16.2	<3	201	9.9	126	27	.5	<1
LM94-7 DXR5605	18.4	<3	368	16.4	138	12	.4	<1
LM94-7 DXR5606	14.0	<3	294	13.6	123	15	<.1	<1
LM94-7 DXR5608	26.2	<3	474	16.3	119	10	.6	<1
LM94-7 DXR5609	65.5	<3	734	11.5	98.8	5	.4	<1
LM94-7 DXR5610	55.6	<3	723	12.4	102	10	.1	<1
LM94-7 DXR5611	29.9	<3	281	16.6	130	17	.7	<1
LM94-7 DXR5612	62.4	<3	346	17.7	124	3	.3	<1
LM94-7 DXR5613	18.8	<3	630	17.2	139	29	.8	<1
LM94-7 DXR5615	23.1	7	420	17.4	146	5	.5	<1
LM94-7 DXR5616	19.0	<3	346	15.0	140	6	.6	<1
LM94-7 DXR5617	22.1	<3	200	10.9	143	6	.8	<1
LM94-7 DXR5618	19.8	<3	239	11.6	146	13	.8	<1
LM94-7 DXR5619	16.2	<3	188	9.8	149	11	.3	<1
LM94-7 DXR5620	13.3	<3	130	8.2	120	6	.6	<1
LM94-7 DXR5621	21.7	<3	95.5	5.8	91.0	11	.2	<1
LM94-7 DXR5622	11.7	<3	151	9.3	150	5	.5	<1
LM94-7 DXR5623	13.3	<3	348	12.1	92.9	11	.6	<1

XRAL

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
LM94-7 DXR5624	11.9	6	199	10.0	152	4	.5	<1
LM94-7 DXR5625	19.8	<3	494	12.9	84.7	5	.2	<1
LM94-7 DXR5626	17.5	<3	261	9.5	83.7	10	.5	<1
LM94-7 DXR5628	17.0	<3	197	9.8	135	6	.4	<1
LM94-7 DXR5629	21.5	<3	219	9.9	143	3	.2	<1
LM94-7 DXR5630	18.3	<3	215	8.2	124	5	.7	<1
LM94-7 DXR5631	19.4	<3	201	9.9	140	7	<.1	<1
LM94-7 DXR5632	21.1	<3	216	10.7	124	4	.9	<1
LM94-7 DXR5635	12.7	<3	263	15.0	136	170	.8	<1
LM94-7 DXR5636	17.7	<3	346	14.3	112	39	.3	<1
LM94-7 DXR5637	16.7	<3	271	15.2	133	24	.4	<1
LM94-7 DXR5638	16.4	<3	323	15.7	147	11	.7	<1
LM94-7 DXR5639	22.9	<3	225	13.5	130	14	.6	<1
LM94-7 DXR5640	17.8	<3	363	14.5	117	15	.5	<1
LM94-7 DXR5641	33.4	<3	335	12.5	117	19	.7	<1
LM94-8 DXR5642	83.9	6	215	8.8	76.9	<1	.6	<1
LM94-8 DXR5643	84.2	26	222	10.2	107	<1	.6	<1
LM94-8 DXR5644	92.5	10	217	10.2	89.3	1	.8	<1
LM94-8 DXR5645	92.1	40	232	10.5	82.8	<1	.4	<1
LM94-8 DXR5647	65.4	<3	243	10.7	82.1	<1	.7	<1
LM94-8 DXR5648	74.8	<3	269	11.7	112	<1	.7	<1
LM94-8 DXR5649	88.1	34	257	11.7	117	<1	.5	<1
LM94-8 DXR5650	110	15	241	12.1	104	<1	.6	<1
LM94-8 DXR5652	102	41	279	11.8	116	<1	.2	<1
LM94-8 DXR5653	86.1	149	360	13.9	98.6	<1	.6	<1
LM94-8 DXR5654	162	204	228	12.5	103	<1	.9	<1
LM94-8 DXR5655	71.2	432	288	12.4	109	3	.9	<1
LM94-8 DXR5656	69.3	775	288	12.9	113	3	1.1	<1
LM94-8 DXR5657	43.7	181	249	11.4	113	4	2.2	<1
LM94-8 DXR5658	102	514	301	11.8	117	9	3.0	<1
LM94-8 DXR5659	96.0	355	302	11.1	98.1	5	2.1	<1
LM94-8 DXR5660	228	499	232	12.6	103	10	3.4	<1
LM94-8 DXR5661	101	82	441	11.4	121	2	.4	<1
LM94-8 DXR5662	98.0	39	372	11.0	118	<1	.9	<1
LM94-8 DXR5663	111	97	383	10.4	104	3	.3	<1
LM94-8 DXR5664	174	398	385	11.8	114	6	1.5	<1
LM94-8 DXR5665	93.0	152	358	10.3	112	2	.3	<1
LM94-8 DXR5666	60.7	986	396	11.2	115	<1	.6	<1
LM94-8 DXR5667	91.7	766	404	11.5	110	2	.5	<1
LM94-8 DXR5668	111	207	372	11.5	114	13	.6	<1

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SAMPLE	ZN PPM ICP 80-1	AS PPM ICP 80-1	SR PPM ICP 80-1	Y PPM ICP 80-1	ZR PPM ICP 80-1	MO PPM ICP 80-1	AG PPM ICP 80-1	CD PPM ICP 80-1
LM94-8 DXR5669	600	244	369	10.7	108	34	.7	<1
LM94-8 DXR5670	227	539	254	12.0	119	13	1.8	<1
LM94-8 DXR5671	111	67	272	8.4	102	3	.6	<1
LM94-8 DXR5672	118	115	435	10.8	128	<1	.8	<1
LM94-8 DXR5673	64.1	21	412	9.6	105	<1	.4	<1
LM94-8 DXR5674	138	61	368	10.6	116	2	.7	<1
LM94-8 DXR5675	438	246	305	10.9	125	5	1.1	<1
LM94-8 DXR5676	523	279	231	11.6	124	4	.6	<1
LM94-8 DXR5677	128	249	195	8.2	86.4	<1	4.0	<1
LM94-8 DXR5678	100	<3	227	9.3	98.2	<1	1.0	<1
LM94-8 DXR5679	101	<3	234	8.9	92.6	<1	.7	<1
LM94-8 DXR5680	101	5	243	11.3	126	<1	.5	<1
LM94-8 DXR5681	117	8	234	11.4	123	<1	.5	<1
LM94-8 DXR5682	122	<3	215	11.6	115	<1	.9	<1
LM94-8 DXR5683	110	<3	209	10.5	98.3	<1	.7	<1
LM94-8 DXR5684	124	<3	273	9.5	100	11	1.0	<1
LM94-8 DXR5686	167	<3	179	9.7	104	<1	.9	<1
LM94-8 DXR5687	123	<3	192	9.1	101	3	.8	<1
LM94-8 DXR5688	57.2	<3	224	8.3	91.3	4	.4	<1
LM94-8 DXR5689	38.4	<3	201	6.2	63.4	2	.3	<1
LM94-8 DXR5690	89.3	<3	221	9.8	127	<1	.7	<1
LM94-8 DXR5691	87.3	31	195	10.9	104	1	.8	<1
LM94-8 DXR5692	78.5	<3	177	9.5	104	<1	.4	<1
LM94-8 DXR5693	70.6	<3	200	9.9	101	<1	.4	<1
LM94-8 DXR5694	76.9	<3	227	8.8	92.1	<1	<.1	<1
LM94-8 DXR5696	90.4	<3	264	10.0	94.4	<1	.8	<1
D LM94-7 DXR5541	47.1	<3	380	19.4	29.4	2	.4	<1
D LM94-7 DXR5553	41.4	5	381	18.7	23.4	6	.3	<1
D LM94-7 DXR5565	46.5	4	299	14.1	82.4	7	.4	<1
D LM94-7 DXR5577	31.6	<3	168	6.9	47.0	167	1.5	<1
D LM94-7 DXR5587	35.5	<3	837	23.1	96.2	21	.6	<1
D LM94-7 DXR5600	18.6	7	137	8.5	98.7	13	.1	<1
D LM94-7 DXR5613	16.9	<3	570	15.3	122	25	.5	<1
D LM94-7 DXR5626	16.5	<3	260	9.1	85.6	10	.3	<1
D LM94-7 DXR5639	18.5	<3	217	13.5	118	15	.7	<1
D LM94-8 DXR5653	86.5	163	347	13.3	95.3	<1	.9	<1
D LM94-8 DXR5665	95.8	152	363	10.6	114	1	.6	<1
D LM94-8 DXR5677	122	230	178	7.5	80.0	1	3.6	<1
D LM94-8 DXR5688	62.1	<3	238	8.5	89.5	2	.6	<1

D - QUALITY CONTROL DUPLICATE

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SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
LM94-7 DXR5541	<10	<5	131	7.9	<10	<2	<3
LM94-7 DXR5542	<10	<5	57	8.5	<10	<2	<3
LM94-7 DXR5543	<10	<5	53	11.2	<10	<2	<3
LM94-7 DXR5544	<10	<5	79	6.3	<10	<2	3
LM94-7 DXR5545	<10	<5	149	8.4	<10	44	<3
LM94-7 DXR5546	<10	<5	158	8.1	<10	<2	<3
LM94-7 DXR5547	<10	<5	1340	49.3	12	<2	6
LM94-7 DXR5548	<10	<5	1180	52.0	32	<2	<3
LM94-7 DXR5549	<10	<5	1210	69.9	14	<2	<3
LM94-7 DXR5550	<10	<5	957	47.6	<10	<2	<3
LM94-7 DXR5551	<10	<5	353	8.1	52	<2	<3
LM94-7 DXR5552	<10	<5	248	5.3	<10	<2	11
LM94-7 DXR5553	<10	<5	152	4.8	<10	<2	<3
LM94-7 DXR5554	<10	<5	221	5.2	<10	<2	<3
LM94-7 DXR5555	<10	<5	210	5.1	<10	<2	<3
LM94-7 DXR5556	<10	<5	573	34.1	<10	<2	<3
LM94-7 DXR5557	<10	<5	224	14.3	<10	<2	5
LM94-7 DXR5558	<10	<5	186	7.4	18	<2	<3
LM94-7 DXR5559	<10	<5	876	37.5	<10	<2	<3
LM94-7 DXR5560	<10	<5	278	6.5	34	<2	<3
LM94-7 DXR5561	<10	<5	235	5.3	75	<2	<3
LM94-7 DXR5562	<10	<5	302	4.6	17	<2	<3
LM94-7 DXR5563	<10	<5	230	7.0	<10	<2	<3
LM94-7 DXR5564	<10	<5	266	13.8	<10	<2	<3
LM94-7 DXR5565	<10	<5	717	19.6	30	<2	<3
LM94-7 DXR5566	<10	<5	586	25.0	<10	<2	<3
LM94-7 DXR5567	<10	<5	201	24.6	44	<2	<3
LM94-7 DXR5568	<10	8	370	5.6	54	<2	<3
LM94-7 DXR5569	<10	<5	224	4.2	<10	<2	<3
LM94-7 DXR5570	<10	<5	277	3.6	25	5	8
LM94-7 DXR5571	<10	<5	790	42.4	20	<2	4
LM94-7 DXR5572	<10	<5	184	5.4	<10	4	<3
LM94-7 DXR5573	<10	7	282	4.1	24	<2	9
LM94-7 DXR5574	<10	<5	214	3.3	14	<2	4
LM94-7 DXR5575	<10	9	381	8.6	21	<2	<3
LM94-7 DXR5576	<10	14	266	5.9	28	<2	6
LM94-7 DXR5577	<10	10	149	11.4	22	<2	26
LM94-7 DXR5578	<10	22	147	6.9	37	<2	<3
LM94-7 DXR5579	<10	10	88	7.4	12	4	5
LM94-7 DXR5580	<10	7	116	4.4	20	9	24

XRAL

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SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
LM94-7 DXR5581	<10	11	750	11.7	37	<2	5
LM94-7 DXR5582	<10	<5	1340	25.3	<10	<2	<3
LM94-7 DXR5583	<10	<5	1420	31.7	25	<2	<3
LM94-7 DXR5584	<10	6	1180	29.4	12	<2	<3
LM94-7 DXR5585	<10	<5	1250	28.6	20	<2	<3
LM94-7 DXR5586	<10	<5	1130	31.6	16	<2	<3
LM94-7 DXR5587	<10	<5	305	24.1	<10	<2	<3
LM94-7 DXR5588	<10	<5	130	32.1	<10	<2	<3
LM94-7 DXR5589	<10	<5	259	15.2	38	<2	<3
LM94-7 DXR5590	<10	<5	171	4.8	<10	<2	10
LM94-7 DXR5591	<10	<5	202	14.0	<10	<2	<3
LM94-7 DXR5592	<10	<5	389	19.0	<10	<2	<3
LM94-7 DXR5594	<10	<5	212	20.7	19	<2	<3
LM94-7 DXR5595	<10	<5	287	32.7	14	<2	4
LM94-7 DXR5596	<10	<5	332	22.9	15	<2	<3
LM94-7 DXR5597	<10	<5	446	16.4	<10	<2	<3
LM94-7 DXR5598	<10	<5	518	19.5	<10	<2	3
LM94-7 DXR5599	<10	<5	376	18.5	11	<2	<3
LM94-7 DXR5600	<10	<5	243	18.4	<10	<2	4
LM94-7 DXR5601	<10	<5	360	16.5	<10	<2	6
LM94-7 DXR5602	<10	<5	287	26.5	21	<2	5
LM94-7 DXR5603	<10	<5	240	33.2	13	<2	<3
LM94-7 DXR5604	<10	<5	223	22.9	16	<2	<3
LM94-7 DXR5605	<10	<5	223	19.7	<10	<2	7
LM94-7 DXR5606	<10	<5	481	26.1	17	<2	<3
LM94-7 DXR5608	<10	<5	321	21.8	12	<2	6
LM94-7 DXR5609	<10	<5	944	30.8	20	<2	<3
LM94-7 DXR5610	<10	<5	1000	28.0	<10	<2	5
LM94-7 DXR5611	<10	<5	779	18.9	22	<2	<3
LM94-7 DXR5612	<10	<5	532	32.5	12	<2	<3
LM94-7 DXR5613	<10	<5	280	19.6	20	<2	<3
LM94-7 DXR5615	<10	<5	231	20.2	<10	<2	<3
LM94-7 DXR5616	<10	<5	226	16.5	20	<2	<3
LM94-7 DXR5617	<10	<5	314	22.4	<10	<2	<3
LM94-7 DXR5618	<10	<5	324	20.9	<10	<2	<3
LM94-7 DXR5619	<10	<5	404	17.3	<10	<2	5
LM94-7 DXR5620	<10	<5	302	9.4	<10	<2	4
LM94-7 DXR5621	<10	<5	212	5.8	14	3	<3
LM94-7 DXR5622	<10	<5	507	18.8	<10	<2	5
LM94-7 DXR5623	<10	<5	272	11.5	<10	<2	<3

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SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
LM94-7 DXR5624	<10	<5	473	21.1	11	<2	<3
LM94-7 DXR5625	<10	<5	243	11.4	<10	<2	12
LM94-7 DXR5626	<10	6	203	11.9	<10	<2	5
LM94-7 DXR5628	<10	6	295	16.3	<10	<2	8
LM94-7 DXR5629	<10	<5	316	18.7	<10	<2	7
LM94-7 DXR5630	<10	6	275	26.5	<10	<2	11
LM94-7 DXR5631	<10	6	307	19.5	<10	<2	<3
LM94-7 DXR5632	<10	<5	243	22.4	<10	<2	5
LM94-7 DXR5635	<10	<5	746	17.8	17	<2	<3
LM94-7 DXR5636	<10	5	257	19.5	14	<2	<3
LM94-7 DXR5637	<10	<5	315	18.2	17	<2	7
LM94-7 DXR5638	<10	5	257	17.8	<10	<2	<3
LM94-7 DXR5639	<10	<5	237	20.5	13	<2	5
LM94-7 DXR5640	<10	<5	182	16.4	<10	<2	<3
LM94-7 DXR5641	<10	<5	201	17.5	19	<2	<3
LM94-8 DXR5642	<10	<5	145	10.6	<10	<2	<3
LM94-8 DXR5643	<10	<5	256	19.6	<10	<2	<3
LM94-8 DXR5644	<10	<5	327	16.2	<10	<2	<3
LM94-8 DXR5645	<10	<5	253	17.5	<10	<2	<3
LM94-8 DXR5647	<10	<5	340	13.6	<10	<2	<3
LM94-8 DXR5648	<10	<5	322	16.0	<10	<2	<3
LM94-8 DXR5649	<10	<5	309	16.2	<10	<2	<3
LM94-8 DXR5650	<10	<5	250	18.4	<10	<2	<3
LM94-8 DXR5652	<10	<5	302	17.1	<10	<2	<3
LM94-8 DXR5653	<10	<5	240	16.1	<10	<2	<3
LM94-8 DXR5654	<10	<5	202	19.8	<10	<2	4
LM94-8 DXR5655	<10	<5	323	13.2	<10	3	<3
LM94-8 DXR5656	<10	<5	420	14.6	<10	13	5
LM94-8 DXR5657	<10	10	674	15.2	<10	37	<3
LM94-8 DXR5658	<10	19	831	29.5	<10	82	5
LM94-8 DXR5659	<10	15	816	25.7	<10	68	<3
LM94-8 DXR5660	<10	24	697	35.1	<10	99	<3
LM94-8 DXR5661	<10	<5	773	41.8	<10	<2	<3
LM94-8 DXR5662	<10	<5	790	33.3	<10	3	<3
LM94-8 DXR5663	<10	<5	707	26.8	<10	<2	<3
LM94-8 DXR5664	<10	14	945	33.2	<10	33	<3
LM94-8 DXR5665	<10	<5	936	30.9	<10	<2	<3
LM94-8 DXR5666	<10	<5	965	30.4	<10	<2	<3
LM94-8 DXR5667	<10	10	801	27.8	<10	<2	4
LM94-8 DXR5668	<10	<5	814	28.7	<10	5	<3

XRAL

08-DEC-94 REPORT 30538 WORKORDER 2060-FL

SAMPLE	SN PPM ICP 80-1	SB PPM ICP 80-1	BA PPM ICP 80-1	LA PPM ICP 80-1	W PPM ICP 80-1	PB PPM ICP 80-1	BI PPM ICP 80-1
LM94-8 DXR5669	<10	<5	730	25.0	<10	5	9
LM94-8 DXR5670	<10	13	569	37.0	<10	46	<3
LM94-8 DXR5671	<10	<5	409	27.5	<10	<2	6
LM94-8 DXR5672	<10	<5	527	37.8	<10	<2	3
LM94-8 DXR5673	<10	<5	438	29.5	<10	<2	<3
LM94-8 DXR5674	<10	<5	625	36.9	<10	<2	<3
LM94-8 DXR5675	<10	14	969	30.7	<10	22	<3
LM94-8 DXR5676	<10	11	937	37.4	<10	16	<3
LM94-8 DXR5677	<10	25	446	20.7	<10	54	13
LM94-8 DXR5678	<10	<5	398	23.5	<10	<2	4
LM94-8 DXR5679	<10	<5	361	14.8	<10	<2	<3
LM94-8 DXR5680	<10	<5	370	18.1	<10	<2	4
LM94-8 DXR5681	<10	<5	310	15.5	<10	<2	<3
LM94-8 DXR5682	<10	<5	211	15.8	<10	<2	<3
LM94-8 DXR5683	<10	<5	313	13.4	<10	<2	<3
LM94-8 DXR5684	<10	<5	209	13.6	<10	<2	<3
LM94-8 DXR5686	<10	<5	112	15.2	<10	<2	<3
LM94-8 DXR5687	<10	<5	165	13.3	<10	<2	<3
LM94-8 DXR5688	<10	<5	203	10.2	<10	<2	<3
LM94-8 DXR5689	<10	<5	162	7.5	<10	<2	<3
LM94-8 DXR5690	<10	<5	228	17.4	<10	<2	<3
LM94-8 DXR5691	<10	<5	261	16.2	<10	<2	<3
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LM94-8 DXR5693	<10	<5	300	13.7	<10	<2	<3
LM94-8 DXR5694	<10	<5	236	14.0	<10	<2	<3
LM94-8 DXR5696	<10	<5	261	13.7	<10	<2	<3
D LM94-7 DXR5541	<10	<5	126	8.6	<10	<2	3
D LM94-7 DXR5553	<10	<5	138	5.5	<10	<2	<3
D LM94-7 DXR5565	<10	<5	667	20.7	25	<2	5
D LM94-7 DXR5577	<10	8	130	10.5	16	3	23
D LM94-7 DXR5587	<10	<5	311	23.3	12	<2	3
D LM94-7 DXR5600	<10	<5	236	19.2	<10	<2	<3
D LM94-7 DXR5613	<10	<5	256	19.3	14	<2	<3
D LM94-7 DXR5626	<10	<5	201	13.0	<10	<2	<3
D LM94-7 DXR5639	<10	<5	220	13.1	12	<2	<3
D LM94-8 DXR5653	<10	<5	230	15.0	<10	3	<3
D LM94-8 DXR5665	<10	<5	948	29.4	<10	<2	<3
D LM94-8 DXR5677	<10	18	399	15.4	<10	58	7
D LM94-8 DXR5688	<10	<5	215	10.7	<10	<2	<3

D - QUALITY CONTROL DUPLICATE

APPENDIX V

Maps and Sections

ALPHA-NUMERIC GEOLOGY LEGEND

FOR

LYNX COMPUTER SYSTEM

EXPLORATION PROPERTIES

TIMMINS - KIRKLAND LAKE

AND

PAMOUR NO. 1/HOYLE PROPERTY LEGEND

Revised April 1994

lgd0494

Lynx Legend

GENERAL PROCEDURES

Orient core and list footage intervals for each box. This list should be given to Al Lacroix for tagging purposes.

MAJOR CATEGORIES ON LYNX COMPUTER LOG

DIST (Distance at bottom of interval)

Sample intervals should not exceed 5 feet (1.5m). Other intervals may be longer. When resampling is required, add the sample distance, description, etc., to the bottom of the log. New sample intervals can be inserted in the appropriate spot on the log in the computer.

ID (Identification)

These two spaces can be used to put numbers/codes corresponding to rock name/possible faults/structure, etc., which can be referred to at a glance.

RQ-RQD

RQD is an estimated percentage of pieces of core in a sample length which are as long or longer than:

AQ 3"/7.5 cm **BQ** 4"/10 cm **NQ** 5"/12.5 cm

This should represent only natural breaks.

ROCK DESCRIPTION

COM (Competency)

M	Massive, will not break without considerable effort
S	Breaks roughly on shear planes
SS	Breaks easily
SSS	Breaks in hands without effort
B	Broken/blocky
F	Fractured
G	Gouge/fault

Lynx Legend

GRS (Grain Size)

VFG	Very fine grained	
FG	Fine grained	aphanitic
FMG	Fine medium grained	aphanitic
MG	Medium grained	aphanitic
MCG	Medium coarse grained	aphanitic
CG	Coarse grained	phaneritic
VCG	Very coarse grained	phaneritic

TEXT (Texture)

VAR	Variolitic - globular structures of devitrified glass (basic)
SPH	Spherulitic - globular structures of devitrified glass (acid)
POIK	Poikilitic - small grains floating in one large grain
OPH	Ophitic - euhedral/subhedral feldspar embedded in pyroxene xtal
DIA	Diabasic/doleritic - lath-like feldspar with pyroxene between
POR	Porphyritic - large phenocrysts in fine-grained matrix
GLOM	Glomeroporphyritic - phenocrysts occur in clusters
SERI	Seriate - complete grain range from matrix to phenocryst
AMYG	Amygdaloidal - vesicle filled with minerals

ALIG	Alligator	**MOTL**	Mottled
BLOT	Blotchy	**NED**	Needled
BND	Banded	**SHD**	Sheared
BRX	Brecciated	**SPT**	Spotted
CLAS	Clastic	**SPX**	Spinifex
COT	Contorted	**SUG**	Sugary
CRA	Crackled	**VUG**	Vuggy
CHLZ	Chill zone	**MUD**	Muddy
FRAG	Fragmental	**QFP**	Quartz feldspar phyric
GRAN	Granitic	**BED**	Bedded
GRT	Gritty	**fp**	feldspar phyric
RUB	Rubbly	**qp**	quartz phyric
HOM	Homogeneous	**pf**	primary fragments
LAM	Laminated	**tf**	tectonic fragments
MBX	Mild brecciated		

Lynx Legend

CO (Colour)

AQ	Aqua	**LM**	Lime
BK	Black	**OR**	Orange
BL	Blue	**PL**	Purple
BR	Brown	**RB**	Red brown
CR	Cream	**RD**	Red
GBR	Grey brown	**RG**	Red green
GG	Green grey	**TN**	Tan
GR	Green	**VI**	Violet
GTN	Grey tan	**WH**	White
GY	Grey	**YL**	Yellow

ALT (Alteration)

ALB	Albitized	**OXD**	Oxidized
BAF	Buff Altn Flecks	**QCB**	Quartz-Carbonate
BLD	Bleached	**QCV**	Quartz-Carbonate Veining
CAR	Carbonaceous	**SCL**	Sericitic-Chloritic
CRB	Carbonatization	**SER**	Sericitic
CCL	Calcite-Chlorite	**SIL**	Silicification
CHL	Chloritic	**SNF**	Snowflake
CC	Calcitic	**SRP**	Serpentinization
EPD	Epidotization	**SUL**	Sulphidization
FEL	Felsic	**TAN**	Tan Alteration
HEM	Hematized (red altn)	**TCL**	Talc Chlorite
HMS	Hematitic Spotted	**LEU**	Leucoxene
LCH	Leached		

NAM/NAME/NAME1 (Rock Name)

OVB	Overburden	**CAS**	Casing
L/C or LC	Lost Core	**MC**	Missing Core

Lynx Legend

1 KOMATIITIC VOLCANICS

1	Unsubdivided
1s	Serpentinized, massive, polysutured, peridotitic komatiite
1ox	Olivine-spinifex textured peridotitic komatiitic flows
1px	Pyroxene-spinifex textured basaltic komatiitic flows
1mb	Massive basaltic komatiite
1m	Massive
1p	Pillowed
1cb	Carbonatized peridotitic komatiite or carbonate rock
1t	Talcose
1b	Basaltic komatiite
1bcb	Carbonatized basaltic komatiite
1tcb	Talc carbonated komatiite
1fu	Fuchsitic carbonate rock

2 THOLEIITIC VOLCANICS

2	Unsubdivided
2m	Massive
2p	Pillowed
2a	Amygdaloidal
2apl	Amygdaloidal pillow lava
2v	Variolitic
2t	Tuff, lapilli-tuff
2b	Breccia
2cb	Carbonatized
2pb	Pillow Breccia
2h	Hyaloclastite
2ag	Agglomerate
2am	Amphibolitized
2scf	Spherulitic, chicken-feed
2sch	Schistose
2sh	Shear
2F	Dominantly Fe-tholeiite, leucoxene, massive, 2m = 2F
2M	Dominantly Mg-tholeiite, pillowed, 2M = 2p
2AL	Dominantly AL-tholeiite
2I	Dominantly Icelandite

Lynx Legend

3 CALC-ALKALIC MAFIC VOLCANICS (MAFIC-INTERMEDIATE VOLCANICS)

3	Unsubdivided
3a	Andesite
3m	Massive
3p	Pillowed
3t, 3lt	Tuff, lapilli-tuff
3b	Breccia
3cb	Carbonatized
3am	Amphibolitized
3pb	Pillow brx
3sh	Shear

4 INTERMEDIATE-FELSIC VOLCANICS

4d	Dacite
4rd	Rhyodacite flows
4dt	Dacite tuffs
4dp	Dacite pyroclastics
4da	Agglomerate-breccia, conglomerate
4dlt	Dacite lapilli-tuff
4dm	Dacite massive flow
4p	Intermediate-felsic pyroclastics
4r	Rhyolite-undifferentiated
4sch	Intermediate-felsic schist
4sh	Shear
4rm	Massive rhyolite
4rt	Rhyolite tuff
4rlt	Rhyolite lapilli-tuff
4ra	Rhyolite agglomerate
qp	(quartz-eye porphyritic)
pp	(plagioclase-porphyritic)
4phyl	Phyllite

P	denotes Primitive
E	denotes Evolved

Lynx Legend

5 SEDIMENTS

5	Unsubdivided
5a	Argillite
5c	Conglomerate
5g	Greywacke
5sl	Slate
5p	Porphyritic, qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
5d	Debris flow
5q	Quartzite
5qw	Quartz wacke
5gr	Graphite
5ch	Chert
5ag	Agglomerate
5t	Tuffaceous-sediment
5s	Siltstone
5ss	Sandstone
5sch	Schist
5sh	Shear
5ex	Exhalite
5tqp	Quartz porphyritic tuff
5phyl	Phyllite
GFZ	Graphitic Fault Zone

K	denotes Keewatin
T	denotes Timiskaming

6 ULTRAMAFIC INTRUSIVE ROCKS

6	Unsubdivided
6s	Serpentinized diorite-peridotite
6ph	Pyroxene-hornblende
6c	Carbonatized
6tm	Talc-magnesite

7 MAFIC INTRUSIVE ROCKS

7	Unsubdivided
7a	Anorthosite
7d	Diorite
7g	Gabbro
7qg	Quartz gabbro
7pg	Pegmatoidal gabbro
7l	Lamprophyre
7ib	Intrusive breccia
7n	Nipissing Diabase-type sills

8 FELSIC INTRUSIVE ROCKS

8	Unsubdivided
8qp	Quartz porphyry
8fp	Feldspar porphyry
8qfp	Quartz feldspar porphyry
8f	Felsite, p (porphyritic), qp (quartz-eye porphyritic), pp (plagioclase-porphyritic)
8hbt	Hornblende-biotite trondhjemite
8pm	Porphyritic monzonite
8gd	Granodiorite
8pg	Porphyritic granodiorite
8lg	Leucocratic granodiorite
8hd	Hornblende diorite
8qd	Quartz diorite
8p	Porphyry
8a	Aplite
8s	Syenite
8g	Granite or quartz-rich syenite
8t	Trachyte

9 MATACHEWAN DIABASE

10 HURONIAN SEDIMENTS

10a	Arkose	**10arg**	Argillite
10w	Wacke	**10c**	Conglomerate

11 QUARTZ DIABASE

12 OLIVINE DIABASE

13 IRON FORMATION

IFo	Oxide	**BIF**	Banded Iron Formation
IFs	Sulphide (py-po)	**IFchl**	Chlorite-rich
IFc	Carbonate	**IFgr**	Graphitic
IFj	Jasper		

These abbreviations are used after a lithology name, if desired ("Nam/Name/Name1" column must be limited to 5 characters). Allows alteration to be shown with name when drill hole is plotted.

3m,s	Would denote a massive calc-alkalic mafic volcanic which is sericitized	**mt**	Magnetite
		sh	Sheared
chl	Chloritic	**tcb**	Talc carbonate schist
chty	Cherty	**tcs**	Talc chlorite schist
s or ser*	Sericitic	**gr**	Graphitic
sil	Silicified	**arg**	Argillaceous
ank	Ankerite	**sch**	Schist
cc	Calcite	**gt**	Garnet
c	Carbon	**oxd**	Oxidized
cb	Carbonate	**bl**	Bleached
h	Hematite	**epd**	Epidote
alb	Albitized	**serp**	Serpentinized
fu	Fuchsitic		

* where computer space permits, use ser

Note: In addition to the percentage of quartz veins being indicated, one should indicate in the Comments column whether the veining is tensional (i.e. cutting foliation) or of the strike variety (i.e. parallel to foliation) or both. For example, "10% qtz (t)" or "15% qtz (t + s)".

SULPHIDES

DS	Disseminated sulphides
SS	Stringer sulphides
MS	Massive sulphides
SMS	Semi-massive sulphides

Lynx Legend

OXIDES

Mt	Magnetite (80-100%)
QAV	Quartz ankerite veining

NAM2/NAME2

This column has been added to accommodate future changes in geology names.

FORM

A formation column has been added to accommodate extensive geological naming practices. FORM will be used to plot geology, and must be limited to a maximum of 8 names or numbers (for the 8 plotter pens).

STRUCTURE

B/S	**S**	Schistosity	**C**	Contact
	F	Foliation	**V**	Vein (primary if more than 1 occurs)
	B	Bedding		

J/F	**J**	Joint Plane
	V	Vein (secondary if more than 1 occurs)
	F	Fault Plane/Fracture

A1/A2

Measurement of above with respect to core axis (C.A.)

MINERALS

GANGUE

ACT	Actinolite	**GAR**	Garnet
ANH	Anhydrite	**HBL**	Hornblende
ANK	Ankerite	**LEU**	Leucoxene
BIO	Biotite	**MUS**	Muscovite
CC	Calcite	**PYR**	Pyroxene
CAR	Carbonate	**QC**	Qtz Carbonate
CHL	Chlorite	**QTZ**	Quartz
DOL	Dolomite	**SER**	Sericite
EPD	Epidote	**SPR**	Serpentine
FSP	Feldspar	**TOU**	Tourmaline
FUC	Fuchsite		

METALLIC

ASP	Arsenopyrite	**PO**	Pyrrhotite
CPY	Chalcopyrite	**PY**	Pyrite
GN/GA	Galena	**SID**	Siderite
GRA	Graphite	**SPH**	Sphalerite
HEM	Hematite	**STB**	Stibnite
		VG	Visible Gold

MINERAL %

0.01	Trace
0.05	Minor Occurrence
2.0	2%

SPL # (Sample number)

WDTH/WIDTH (Width)

T (Sample Type)

C	Core	**L**	Channel
G	Grab	**S**	Sludge
H	Chip		

COMMENTS

Standard abbreviations should be used where possible so that anyone can refer to this "dictionary" and clearly read the logs. If abbreviations are being used that are not included on this list, please add them.

ANH	Anhedral	**NOD**	Nodules
BLB	Blebs	**OCC**	Occasional
BL-QTZ	Blue quartz	**OC**	Out Contact
CA	Core Axis	**OVC**	Out Vein Contact
CV	Carbonate vein	**PLL**	Parallel
DEFMD	Deformed	**QCV**	Qtz-Carb Vein
DIS	Disseminated	**QV**	Quartz Vein
EUH	Euhedral	**RXN**	Reaction
EXT	Extensive	**STR**	Strong
FOL	Foliation	**STK**	Stockwork
FUCH	Fuchsite	**SUB**	Subhedral
GRND	Ground (core)	**TR**	Trace
>	Greater Than	**TW**	True Width
IC	In Contact	**VNS/VN/V**	Veins
IVC	In Vein Contact	**VLETS**	Veinlets
IRR	Irregular	**W**	With
<	Less Than	**WO**	Without
MAG	Magnetic	**WK(LY)**	Weak(ly)
MNR	Minor		
MOD	Moderate(ly)		

ASSAY

Suggested usage for assay columns:

AU1	PPB
AU2	Fire Assay (use FA1 column if available)
ASSAY3, etc.	To be used if there is a need to show a relationship with gold, otherwise geochemical analysis is available on other systems

Ministry of Natural Resources
Ontario

Ministry of Northern Development and Mines

INDEX TO LAND DISPOSITION

PLAN
G-3719

TOWNSHIP
TECK

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE

MINING DIVISION
LARDER LAKE

LAND TITLES/REGISTRY DIVISION
TIMISKAMING

Scale 1:20 000

1000 Metres 0 1000 2000 Metres

1000 Feet 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Feet

Contour Interval 10 Metres

SYMBOLS

Boundary
- Township, Meridian, Baseline
- Road allowance; surveyed
- shoreline
- Lot/Concession; surveyed
- unsurveyed
- Parcel; surveyed
- unsurveyed
- Right-of-way; road
- railway
- utility
- Reservation
- Cliff, Pit, Pile
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway; single track
- double track
- abandoned
- Road; highway, county, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

DISPOSITION OF CROWN LANDS

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
Cancelled
Reservation — R
Sand & Gravel — G
PENDING APPLICATION TO STAKE WITHIN TOWNSITE — A

AREAS WITHDRAWN FROM DISPOSITION

MRO - Mining Rights Only
SRO - Surface Rights Only
M + S - Mining and Surface Rights

	Description	Order No.	Date	Disposition	File
R	SEC. 36/80	W 108/82		M & S	
R	SEC. 36/80	W-22/88		M RO	
R	SEC.43/70	UNDER NO. O-L-28/92 NER W76/80	OPENS W-22/88NR	SRO	
R	SEC.36/80	W9/86		M & S	

DATE OF ISSUE
JAN 6 1994
LARDER LAKE MINING RECORDER'S OFFICE

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

CIRCULATED SEPT. 23/93 D. McKEAN

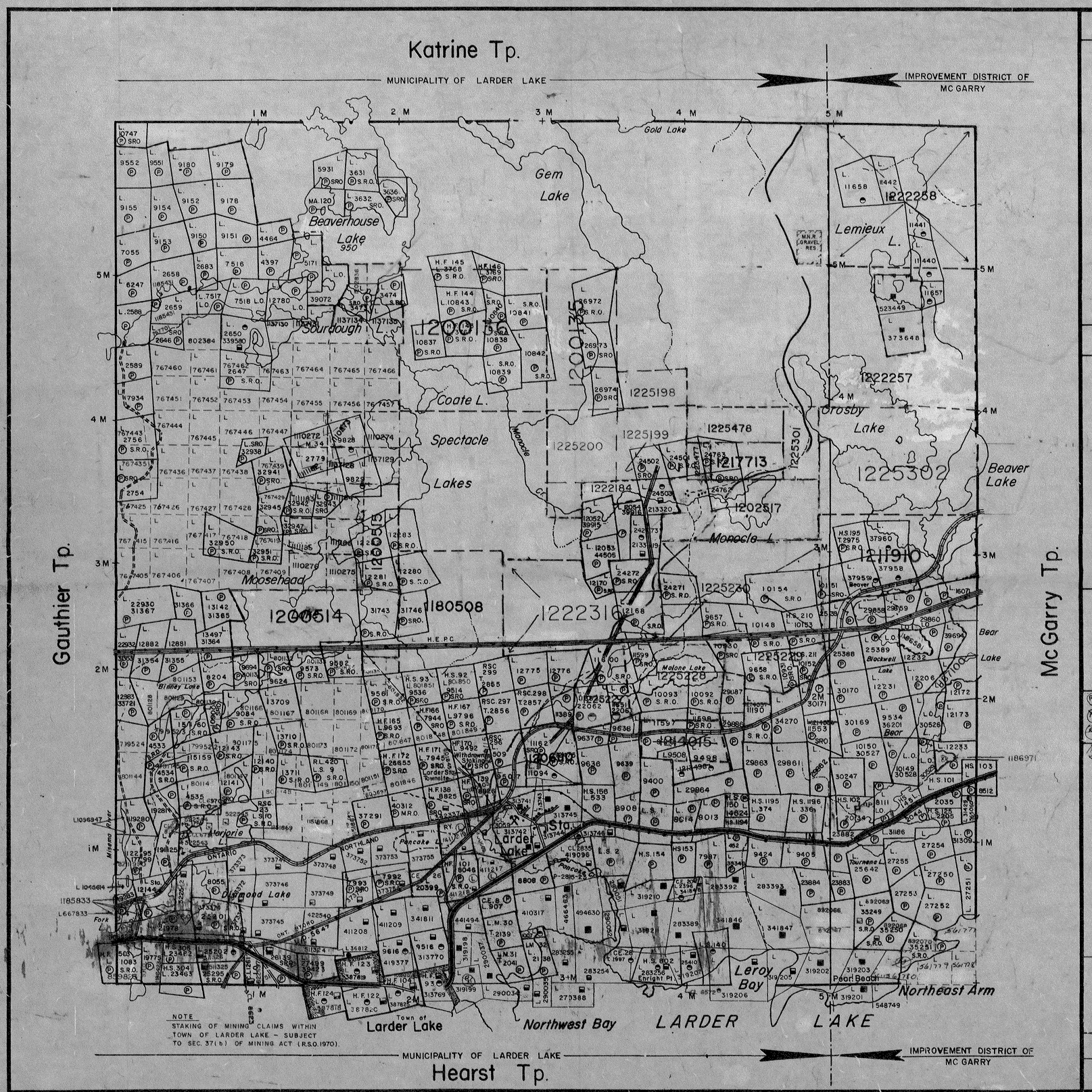
Map base and land disposition drafting by Surveys and Mapping Branch, Ministry of Natural Resources.

The disposition of land, location of lot fabric and parcel boundaries on this index was compiled for administrative purposes only.

32D04NE2079 om94-037 MCVITTIE 200

TRIM LINE

G-3163



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	P or
" , SURFACE RIGHTS ONLY	P S.R.O. or
" , MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	L or
" , SURFACE RIGHTS ONLY	
" , MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	L O or
ORDER-IN-COUNCIL	OC
RESERVATION	R
CANCELLED	C
SAND & GRAVEL	S

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

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 2000 (1 KM) (2 KM)

SEC 36/80 NRW65/84 01/03/84 mr4SR
01-3/80 OPENS NRW 65/84
SEC 36/80 NRW 27/85 11/27/85 mr4SR
O-L2/89NR OPENS NRW 23/85
Sec 36(W) W. 9/80 2/10/80 mr3
Sec 36(W) O. 11/86 1/10/86 mr3
W-22/86 6/3/86 Sec 36/80 mr3
TOWNSHIP O-02/88L OPENS 2/88

McVITTIE

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE

MINING DIVISION
LARDER LAKE

LAND TITLES / REGISTRY DIVISION
TIMISKAMING

Ontario Ministry of Natural Resources — Land Management Branch

Date SEPTEMBER 1984

Number G-3163

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DATE OF ISSUE
JUN 17 1998
PROVINCIAL RECORDING OFFICE - SUDBURY

COPY OF THIS MYLAR ARCHIVED OCT. 31, 1991
ARCHIVED APR. 18, 1994
ARCHIVED JAN 29/96

32D04NE2079 om94-037 MCVITTIE 210

TRIM LINE

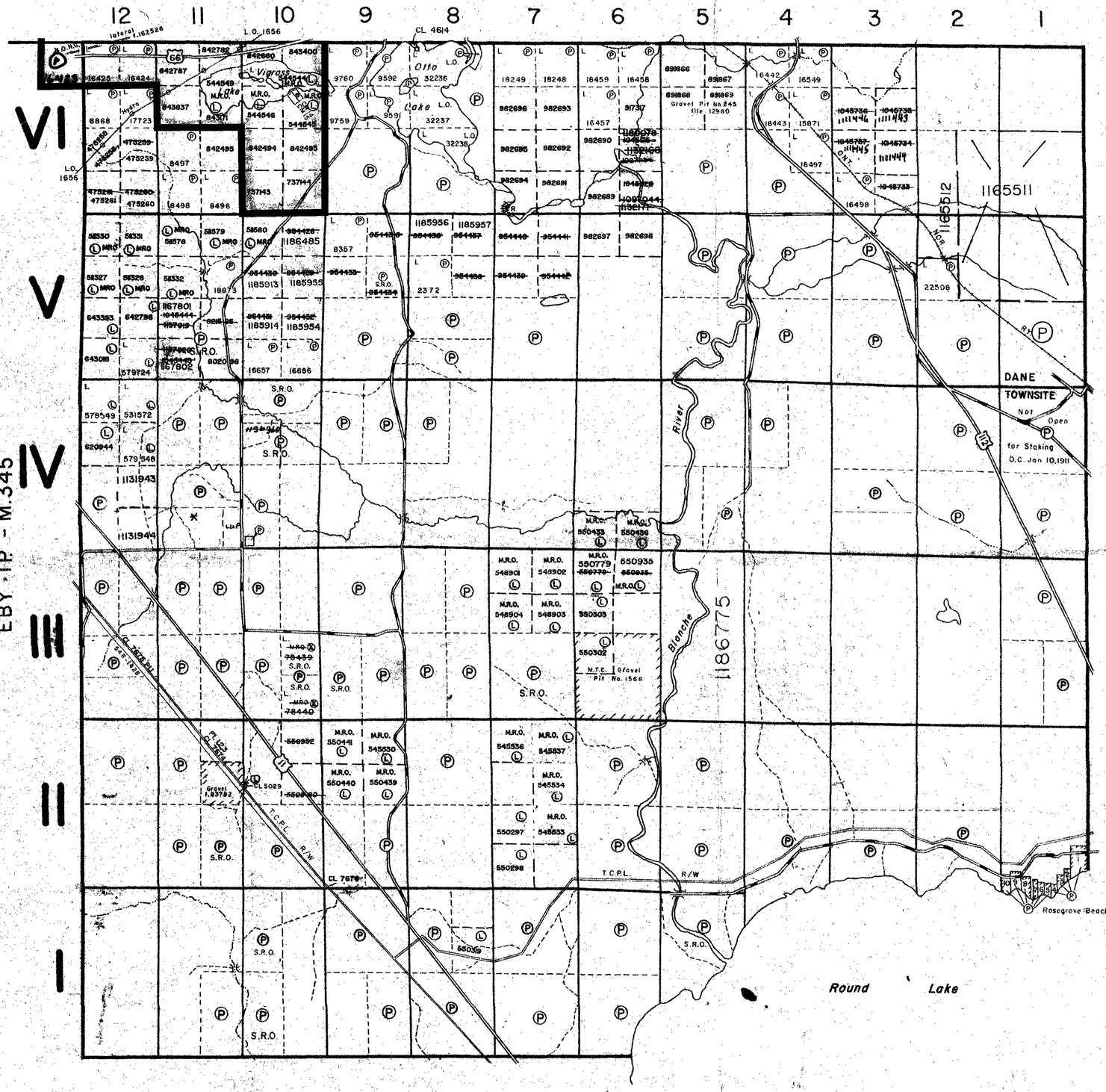
G-3163

TECK TP. - M.392

EBY TP. - M.345

BOSTON TP. - M.332

MARQUIS TP. - M.362



THE TOWNSHIP
OF

OTTO

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

PATENTED LAND	● or (P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	
PATENTED S.R.O.	

NOTES

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

(R) SURFACE AND MINING RIGHTS WITHDRAWN FROM STAKING SEC. 36/80, W.9/86, JAN. 24, 1986, O-L26-90 NR OPENS W9/86 DEC. 14, 1990

✱ APPLICATION UNDER THE PUBLIC LANDS ACT SEC. 31 (b) OF THE MINING ACT

CL.5029 DISPOSITION OF CROWN LAND
Surface Rights Withdrawn under Sec. 36, The Mining Act R.S.O. 1980, ORDER NO. W-01/91/ONT (Trans Canada Pipeline Right of Way and Buffer Zone particularly 40.25 meters or 132 ft. on either side of centre line of right of way)

NOTICE OF FORESTRY ACTIVITY

THIS TOWNSHIP / AREA FALLS WITHIN THE TIMISKAMING MANAGEMENT UNIT

AND MAY BE SUBJECT TO FORESTRY OPERATIONS. THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O. BOX 129
SWASTIKA, ONT.
P0K 1T0.
705-642-3222

DATE OF ISSUE
JAN 6 1994
LARDER LAKE

PLAN NO. M-379

MINISTRY OF NORTHERN
DEVELOPMENT AND MINES

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.

CIRCULATED NOV.3/88

32D04NE2079 om94-037 MCVITTIE 220

M.379 OTTO TWP

S (Az 180)

N (Az 360)

CLAIM 767437

IP Anomalies

Resistivity

Chargeability

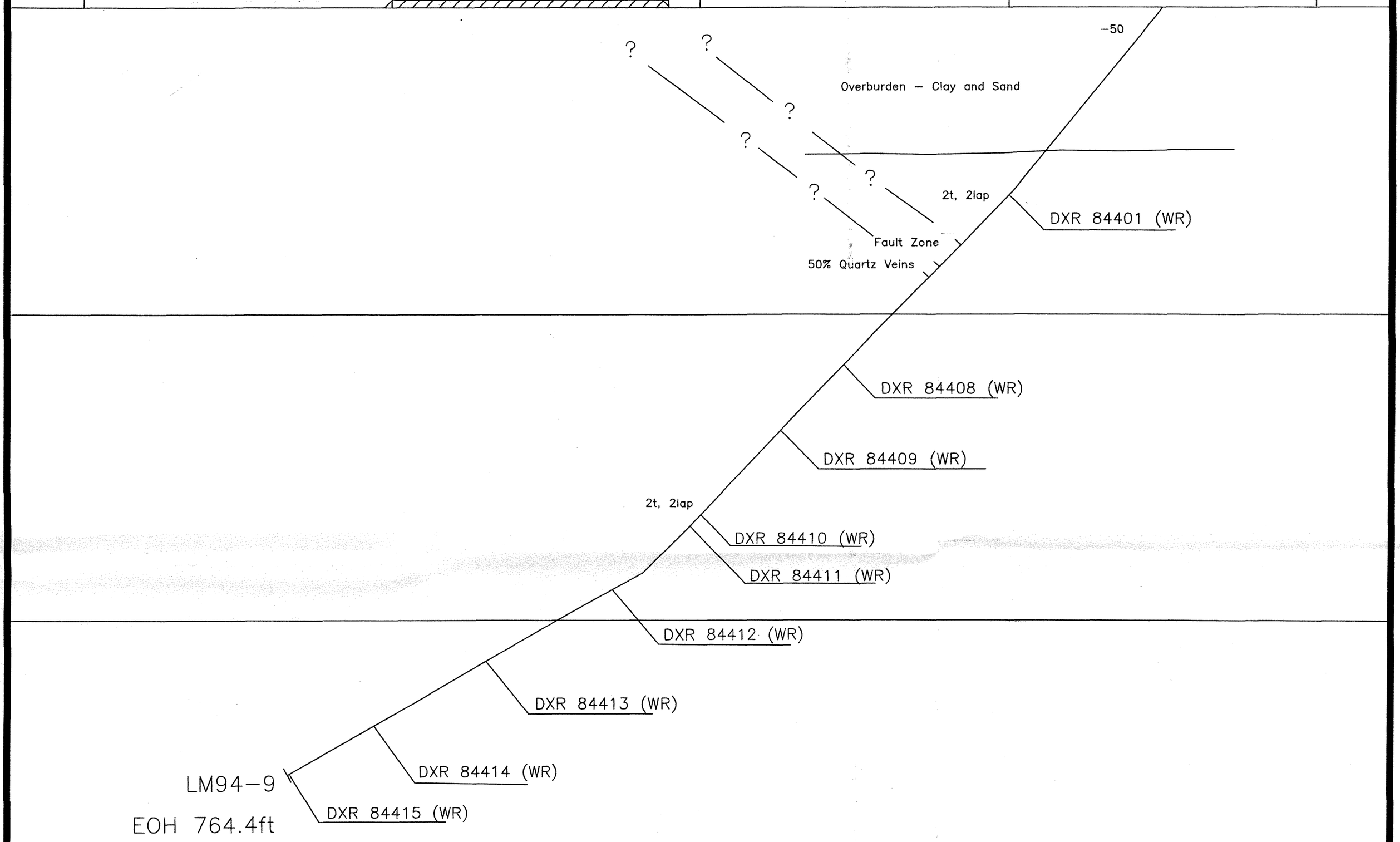
13 + 00 S

11 + 00 S

9 + 00 S

7 + 00 S

5 + 00 S



0 50 100 200

feet

Royal Oak Mines Inc. TIMMINS DIVISION

Lac McVittie Joint Venture

Section 32+00W

DDH LM94-9

TRACED:	DATE:	NTS: 32 D/4	PROJECT: 1513
DRAWN: R. Presococo	DATE: Jan., 1995	MAP No:	FILE: sec3200w
SUPERVISED:	DATE:		
REVISED:	DATE:		

32D04NE2079 om94-037 MCVITTIE

S (Az 180)

N (Az 360)

HEM Anomaly

6 + 00 S | 4 + 00 S | 2 + 00 S | BL 0 + 00

Clay Overburden

DXR 5646 (WR)

4t, 4agg, (5c)

0.004 opt Au/80.0 ft (116ppb)

DXR 5651 (WR)

0.004 opt Au/7.9 ft (137ppb)

5arg-gph, 4

Fault gouge

4l

DXR 5685 (WR)

0.006 opt Au/20.0 ft (214ppb)

DXR 5695 (WR)

EOH
806 ft

0 50 100 200

feet

32D04NE2079 om94-037 MCVITTIE

240

Royal Oak Mines Inc. TIMMINS DIVISION

Lac McVittie Joint Venture
Section 12+00W

DDH LM94-8

TRACED:	DATE:	NTS:	PROJECT: 1513
DRAWN: R. Pressacco	DATE: Nov. 1994	MAP No:	FILE: sec1200w
SUPERVISED:	DATE:		
REVISED:	DATE:		

S (Az 180)

N (Az 360)

Magnetic Anomaly

HEM Anomaly

Magnetic anomaly (north edge not defined)

26 + 00 N

28 + 00 N

30 + 00 N

32 + 00 N

34 + 00 N

-45

Overburden – mixed clay and boulders

5–7% epidote stingers and patches containing diss + stinger pyrite

25–30% pyrite breccia

2m

Including

0.017 opt Au/20 ft (583ppb)

Mixed hem–ser–talc alt'n containing 1–3% qtz–ank veining + diss py

7–10% qtz–ank veinlets

Ser–(hem)–(talc) Alteration Zone 1% py–(cpy)

strong hem alt'n

2, por–m

0.005 opt Au/280 ft (178 ppb)

strong epidote alt'n

4, 4l

strong ser–(hem) alt'n with 3% diss pyrite

4, 4l

0.004 opt Au/129.1 ft (126ppb)

2, por–m

8d

4

Zone of Qtz veining and Ser–(hem) Alt'n

2m

EOH
1136 ft

0 50 100 200

feet

Royal Oak Mines Inc.

TIMMINS DIVISION

Lac McVittie Joint Venture
Section 36+00W

DDH LM94–7

TRACED:	DATE:	NTS:	PROJECT: 1513
DRAWN: R. Pressacco	DATE: Nov. 1994	MAP No:	FILE: sec3600
SUPERVISED:	DATE:		
REVISED:	DATE:		

32D04NE2079 om94-037 MCVITTIE 250

S (Az 180)

N (Az 360)

18 + 00 N | HEM Anomaly | 20 + 00 N | 22 + 00 N | 24 + 00 N | Magnetic Anomalies 26 + 00 N | 28 + 00 N | 30 + 00 N

clay overburden

−45

Qtz−tour veining + fuchsite alt'n

4l(?)

2s

1m

DXR 5133 (WR)

0.002 opt Au/7.3 ft (69ppb)

2 ogg

DXR 5145 (WR)

0.004 opt Au/3.2 ft (137ppb)

0.010 opt Au/2.6 ft (343ppb in smsv py−mt)

strong ser−(hem) alt'n

2 ogg, ser

1−3% chl−pyrite stringers

msv ser−cc alt'n + 5% chl−py stringers

0.004 opt Au/10 ft (137ppb)

DXR 5164 (WR)

2 ogg

0.004 opt Au/54.5 ft (137ppb)

Ser−(hem) alt'n zone
20% chl−py stringers
3% diss py
3% qtz−cc veining

DXR 5187 (WR)

fracture−controled ser alt'n + pyrite

5% chl stringers

2 cgg

common diss, patchy, and stringer epidote

0.004 opt Au/60 ft (137ppb)

2m

DXR 5521 (WR)

2m, por−plg

0.008 opt Au/4.0 ft (274ppb)

0.007 opt Au/5.0 ft (240ppb)

epi−chl−ser−(ortho?) alt'n

DXR 5247 (WR)

2 ogg

0.004 opt Au/15 ft (137ppb)

2m, por−plg

DXR 5506 (WR)

7% epidote tension veins

2m

0.007 opt Au/29 ft (240ppb)

2m, por−plg

DXR 5511 (WR)

Strong epidote alt'n + mt−cpy−py

0.013 opt Au/26.1ft (446ppb)

smsv epidote−pyrite

2 ogg

0.004 opt Au/10 ft (137ppb)

8s

0.098 opt Au/2.0 ft (3,360ppb)

2 ogg

8s

0.009 opt Au/5.0 ft (309ppb)

EOH

1416 ft

0 50 100 200

feet

Royal Oak Mines Inc.

TIMMINS DIVISION

Lac McVittie Joint Venture
Section 32+00W

DDH LM94−6

TRACED:	DATE:	NTS:	PROJECT: 1513
DRAWN: R. Pressocco	DATE: Nov. 1994	MAP No:	FILE: sec3200
SUPERVISED:	DATE:		
REVISED:	DATE:		

32D04NE2079 om94-037 MCVITTIE 260

S (Az 180)

N (Az 360)

Magnetic Anomalies

18 + 00 N

20 + 00 N

22 + 00 N

24 + 00 N

26 + 00 N

clay overburden

-50

2, ser-hem alt'n

100 ft

DXR 5014 (WR)

2 agg

DXR 5033 (WR)

300 ft

8s

2 agg

60-70% qtz-cc-tour veining

71

500 ft

8s

2 agg (magnetic)

8s

DXR 5058 (WR)

700 ft

2agg

Patchy mt-cpy

DXR 5126 (XRD)

DXR 5067 (WR)

10% qtz-cc-ank-tour veining

Mixed sericite alt'n +

2agg

0.013 opt Au/2.4 ft (446 ppb)

900 ft

0.036 opt Au/5.0 ft

(1,234 ppb)

0.003 opt Au/6.8 ft

(105 ppb)

2 agg

8d

1100 ft

2 agg

EOH

1232 ft

0 50 100 200

feet

32D04NE2079 om94-037 MCVITTIE

270

Royal Oak Mines Inc. TIMMINS DIVISION

Lac McVittie Joint Venture

Section 42+00W

DDH LM94-5

TRACED:	DATE:	NTS: 32D	PROJECT: 1513
DRAWN: R. Presacco	DATE: Nov. 1994	MAP No:	FILE: sec4200
SUPERVISED:	DATE:		
REVISED:	DATE:		

LAC MCVITTIE JOINT VENTURE

COMPILATION, 1994

LEGEND

Diamond Drill Hole

HEM Anomaly (444Hz, Pamourex)

Gradient IP Anomaly (Sudbury Contact)

Airborne EM Anomaly (Lac Minerals)

0 1000 feet

PH-8 PH-9 PH-10

MAGNETITE STRIP

PYRITE PIT STRIP

BOUNDARY ZONE PYRITE STRIP

Syenite Porphyry Stock

Spider 802384

Hennis 2650

Lac McVittie

Ava Lake

Beaverhouse Lake

Misima River

Fork Lake Road

3 mile post

Gauthier Township

McVittie Township

IMPERIAL GRID

METRIC GRID

BL 0+00N

0+00 E

LM94-7: mixed epiaote-py-cpy and ser-hern alt'n; 2m; 4, 4l; 2m/6d; 4; 2m

LM94-6: 6s/4l, 1m; 2 agg

LM94-5: 2 agg; 8s; 2 agg; 8s; 2 agg; 2 agg

LV85-5: 8fp; 5c(2); 2m; 2 agg; 2m; 2 agg/8s

80-30-2: 10ft carb, sheared zone diss + 6-8in. msv Pyrite; 0.03 opt Au/1.0ft; 0.04 opt Au/1.0ft

80-30-3

80-30-1: 50% qtz-chl veining + ser-hem alt'n/27ft

80-30-4: 6-8ft msv Pyrite; 5ft rusty shear; 0.03 opt Au/1.0ft; 0.04 opt Au/5.0ft

LV85-1?

LV85-2: 2pbx?, 3a; 5a, 5g, 5c, 5cht; 4agg

LV85-3

LV85-4: 4agg/4p; 8fp

LV85-6: 2; FZ, heavy carb.; Hematitic Quartz Breccia/24.2ft; 2f, m-p

LV85-7: 2, m; 6.5 ft of quartz veining and broken core; 3(?), m-p

LV85-8

LM91-1

LM91-2

LM91-3

LM91-4

LM90-1: 4agg/4p; 2; 1/8d

LM90-2: 2, gph

LM94-8: 4l, 4agg, (5c)

LM94-9

R93-1: 4agg/4p

R93-2: 4agg/4p; 4agg/4p

R93-3: 5??

R93-4: 4agg/4p; ser

R93-5: 2/3

0.043 opt Au, 0.10% Cu/grab

0.018 opt Au/4.0ft

0.013 opt Au/26.1 ft strong epidote alt'n + mt-cpy-py 0.098 opt Au/2.6ft in smsv epidote-py

mixed ser-hem, epidote+py, and fuchsite alt'n

cpy-mt, 0.013 opt Au/2.4ft 0.036 opt Au/5.0ft

0.035 opt Au, 2.72% Cu/grab

0.241 opt Au, 0.17% Cu/grab

0.008 opt Au, 0.15% Cu/grab

0.016 opt Au, 0.08% Cu/grab

0.029 opt Au, 0.09% Cu/grab

0.088opt Au (290ppb)/5ft

0.055opt Au (180ppb)/5ft

smsv pyrite/4.0ft

10% tourmaline, 1600ppm As/3.0ft

5arg-gph, 4

5026ppm As/11.5ft

6400ppm As/3.5ft

3400ppm As/5.0ft

smsv py, gph, 5620ppm As/3.0ft

Diss. pyrite (to 10%) throughout

LM90-1: 15-20% pyrite in 4l

LM90-2: 6-8% pyrite, 206ppb Au in 40% pyrite/2.5ft

LM91-4: 60% pyrite, 1300ppm As/15.0ft; 4.5% pyrite, 1000ppm As/5.0ft

767425 767426 767427 767428 767429 1111183 1111184

767415 767416 767417 767418 767419 1111185 1111186

767405 767406 767407 767408 767409 1110276 1110275

767435 767436 767437 767438 1111182 1137128 1137129

767445 767446 1110272 1110273 1110274

767451 767452 767453 767454 767455 767456 767457

767460 767461 767462 767463 767464 767465 767466

2589 2588 6247 7055 9153 9150 9153 793 793 88 86

1137133 1137134 1137135

320ANE2079 cm94-037 MCVITTIE 280

180°

84 N

86 N

88 N

90 N

92 N

94 N

96 N

98 N

100 N

360°

VG 94-01

91-03

91-04

85-1

200 m

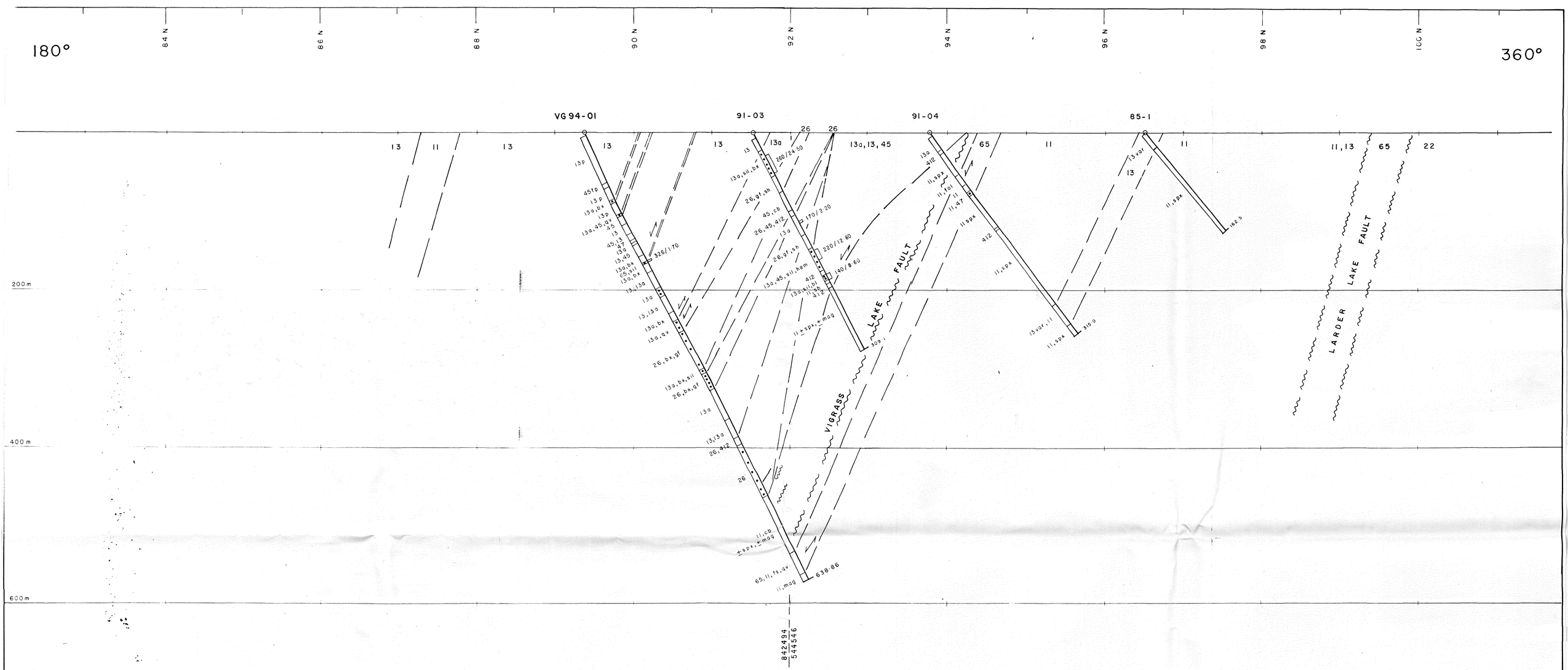
400 m

600 m

800 m

842494

5445546



COBA

32D04NE2079 om94-037 MCVITTIE 290

LEGEND:

INTRUSIVES/ALTERATION

- 65 Carbonate Alteration
- 61 Chlorite Schist
- 45 Mafic Intrusives
- 46 Felsic Intrusives
- 47 Felsite / Albite Dyke
- 412 Lamprophyre Dyke

TIMISKAMING GROUP

- 22 Graywackes, Conglomerates

LARDER LAKE GROUP

- 27 Oxide Iron Formation
- 26 Argillite, Graywacke
- 13 Tholeiitic Basalts
- 13a Altered Basalts / Mafic Intrusives
- 11 Komatiites

Fault

Foliation

Bedding

Pyrite

0.685/10.0 g/t Au/ metres

gb	Gabbroic
bl	Bleached
bx	Brecciated
cb	Carbonated
ch	Chloritic
di	Dioritic
fol	Foliated
fp	Feldspar Porphyry
fs	Fuchsite
gf	Graphitic
hem	Hematite
m	Massive
mag	Magnetite
p	Pillowed
qv	Quartz Veins
sh	Sheared
sil	Silicified
spx	Spinifex
var.	Variolitic

Note: Magnetic Declination = 11°00' West

SCALE 1:2500

50 0 50 100 150 200 Metres

QUEENSTON MINING INC.

VIGRASS LAKE PROPERTY

OTTO TWP. - ONTARIO

SECTION 107+00E

HOLES VG 94-01, 91-03, 04 & 85-1

Nov. 1994 | W. Benham | DWG. DC-01

180°

360°

84 N | 86 N | 88 N | 90 N | 92 N | 94 N | 96 N | 98 N | 100 N

VG 94-02

200 m

400 m

600 m

800 m

13
13a,bx,px,sil
13p,13a
13a,qv,py
13p,13a
45,di
13m
412
13a,m
13,13a
13a,sil,ch
412,13a
13a,qv,py
13a,412
13p
13p,13a,bx
13a,45
45,bx
412
45
45,bx
26,py,qv
65,fs
11,cb
±spx,±mag

0.20/1.6

26

13 | 13a, 45 | 13 | 11

842494
544546

641.9

300

32D04NE2079 om94-037 MCVITTIE

LEGEND:

INTRUSIVES/ALTERATION

- 65 Carbonate Alteration
- 61 Chlorite Schist
- 45 Mafic Intrusives
- 46 Felsic Intrusives
- 47 Felsite / Albite Dyke
- 412 Lamprophyre Dyke

TIMISKAMING GROUP

- 22 Graywackes, Conglomerates

LARDER LAKE GROUP

- 27 Oxide Iron Formation
- 26 Argillite, Graywacke
- 13 Tholeiitic Basalts
- 13a Altered Basalts / Mafic Intrusives
- 11 Komatiites

Fault
Foliation
Bedding
Pyrite
0.685/10.0 g/t Au / metres

gb	Gabbroic
bl	Bleached
bx	Brecciated
cb	Carbonated
ch	Chloritic
di	Dioritic
fol	Foliated
fp	Feldspar Porphyry
fs	Fuchsite
gf	Graphitic
hem	Hematite
m	Massive
mag	Magnetite
p	Pillowed
qv	Quartz Veins
sh	Sheared
sil	Silicified
spx	Spinifex
var.	Variolitic

Note: Magnetic Declination = 11°00' West

SCALE 1:2500

50 0 50 100 150 200 Metres

QUEENSTON MINING INC.

VIGRASS LAKE PROPERTY

OTTO TWP. - ONTARIO

SECTION 104+30E, HOLE VG 94-02

Nov. 1994 | W. Benham | DWG. DC-02

180°

84

86 N

88 N

90 N

92 N

94 N

96 N

98 N

100 N

360°

VG 94-03

27

13 | 11 | 13

13p

47 1 p

13p

45 gb, 13

412, 46, fp, 47

22, 27, px, qv

45, 46

22 gl, 45

45, 61

0 26/0 80

0 39/6 30 incl. 0 62/1 70

0 38/1 80

842493

544545

13 | 13a, 45 | 11

13p

13a, cb, bx

13p

13a, bx, qv

13, 13a

0 17/1 35

13a, 45

412

26 gf, qv, py

61, 150

11, ch

± spx ± mag

559.61

200m

400m

600m

300m

32D04NE2079 om94-037 MCVITTIE 310

LEGEND:

INTRUSIVES/ALTERATION

- 65 Carbonate Alteration
- 61 Chlorite Schist
- 45 Mafic Intrusives
- 46 Felsic Intrusives
- 47 Felsite / Albite Dyke
- 412 Lamprophyre Dyke

TIMISKAMING GROUP

- 22 Graywackes, Conglomerates

LARDER LAKE GROUP

- 27 Oxide Iron Formation
- 26 Argillite, Graywacke
- 13 Tholeiitic Basalts
- 13a Altered Basalts / Mafic Intrusives
- 11 Komatiites

Fault

Foliation

Bedding

Pyrite

0·685 / 10·0 g/tAu / metres

gb	Gabbroic
bl	Bleached
bx	Brecciated
cb	Carbonated
ch	Chloritic
di	Dioritic
fol	Foliated
fp	Feldspar Porphyry
fs	Fuchsite
gf	Graphitic
hem	Hematite
m	Massive
mag	Magnetite
p	Pillowed
qv	Quartz Veins
sh	Sheared
sil	Silicified
spx	Spinifex
var.	Variolitic

Note: Magnetic Declination = 11°00' West

SCALE 1:2500

50 0 50 100 150 200 Metres

QUEENSTON MINING INC.

VIGRASS LAKE PROPERTY

OTTO TWP. - ONTARIO

SECTION 110+00E, HOLE VG94-03

Nov. 1994 W. Benham DWG. DC-03

565000 E

565500 E

566000 E

VIGRASS LAKE

OTTO LAKE

843171

309.10 m

544546

544545

9600 N.

9400 N.

D.D.H. ROAD

VA91-04
(-55°)

315.05 m.

641.90m

161.66m

638.86 m

559.61m

92 N. TIE LINE

VA91-03
(-63°)

VA90-01
(-50°)

VG94-02
(-66°)

842495

842494

842493

9000 N.

OTTO TOWNSHIP ROAD

VG94-01
(-65°)

VG94-03
(-60°)

LOT 10

LOT 9

320

120.70m.

8800 N.

VA90-02
(-50°)

10200 E

10300 E

LOT 11

LOT 10

737143

737144

8600 N.

L 10400 E

L 10500 E

L 10600 E

L 10700 E

L 10800 E

L 10900 E

L 11000 E

L 11100 E

L 11200 E

565000 E

565500E

566000E

MAGNETIC DECLINATION
= 11°00' W.

COPY

LEGEND

309.10m. (Length of hole)

VA91-04 (Hole No.)
(-55°) (Dip of hole)

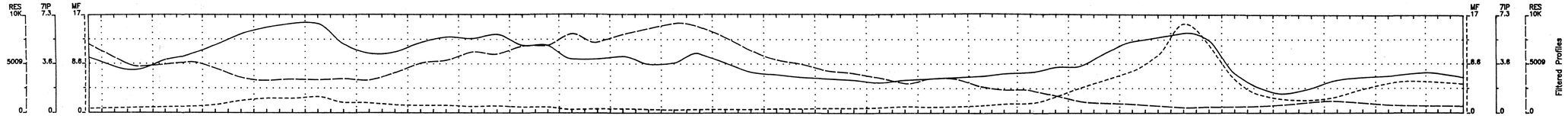
Scale:
0 50 100 200
Metres

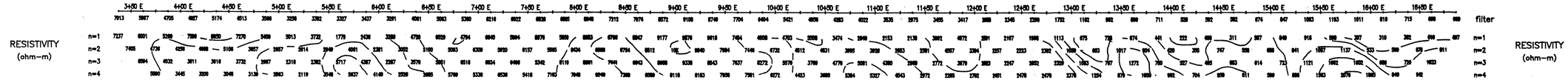
QUEENSTON MINING INC.

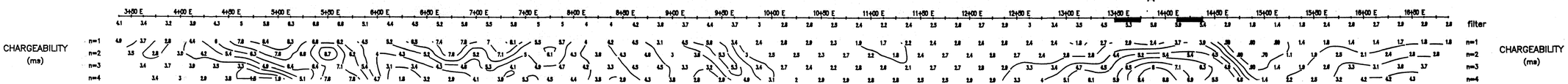
VIGRASS LAKE PROPERTY
Otto Twp. - Ontario
DRILL PLAN

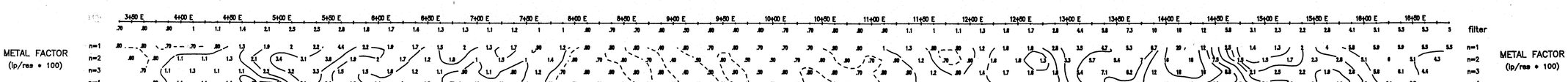
Scale: 1:5000	W. Benham
Nov. 1994	FIG. 5

32D04NE2079 om94-037 MCVITTIE









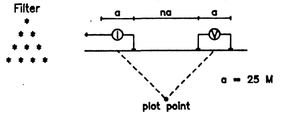
Geosoft Software for the Earth Sciences



32D04NE2079 om94-037 MCVITTIE

Line 3800 N

Pole–Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ☒ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

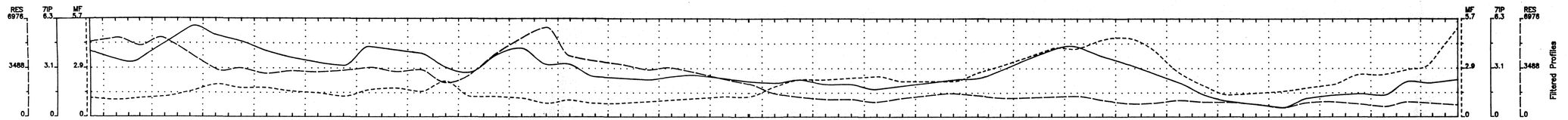
Scale 1:2400

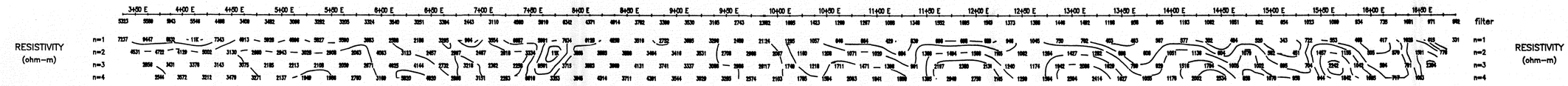
25 0 25 50 75 100 125 150
(meters)

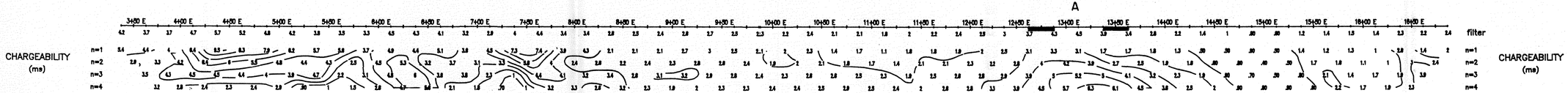
ROYAL OAK MINES INC.
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

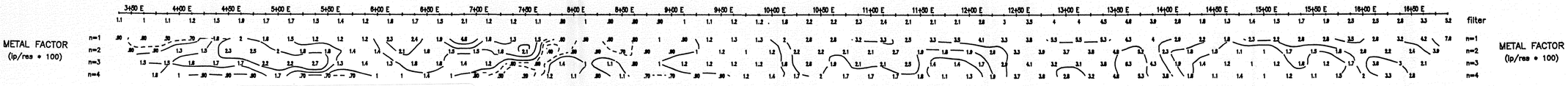
Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.



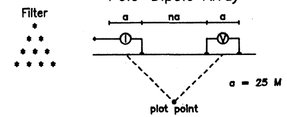






Line 3700 N

Pole–Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▼ Low resistivity feature.

Scale 1:2400

25 0 25 50 75 100 125 150
(meters)

ROYAL OAK MINES INC.
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

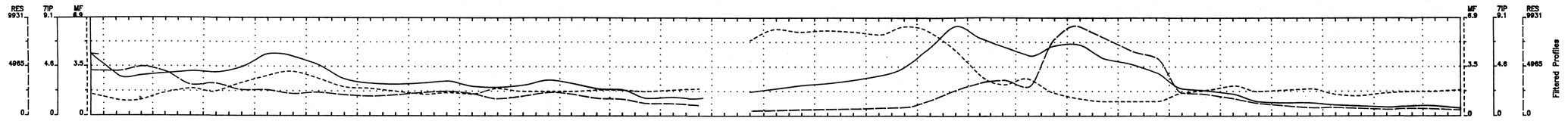
Date: 10/94
Interpretation: D. Londry

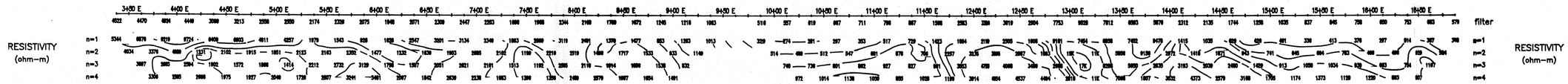
Timmins Geophysics Ltd.

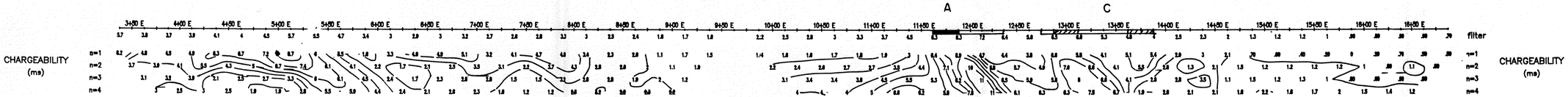
Geosoft Software for the Earth Sciences

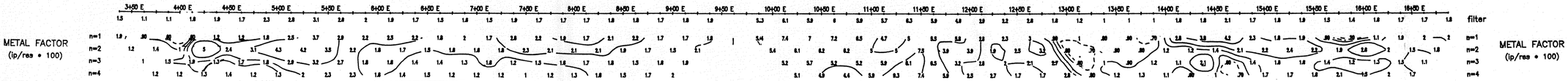


32D04NE2079 om94-037 MCVITTIE



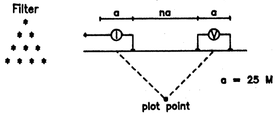






Line 3600 N

Pole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

25 0 25 50 75 100 125 150
(meters)

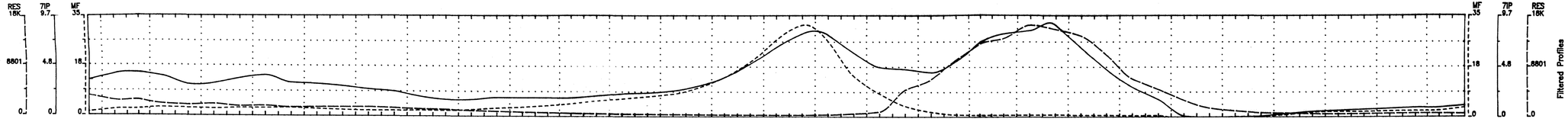
ROYAL OAK MINES INC.
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

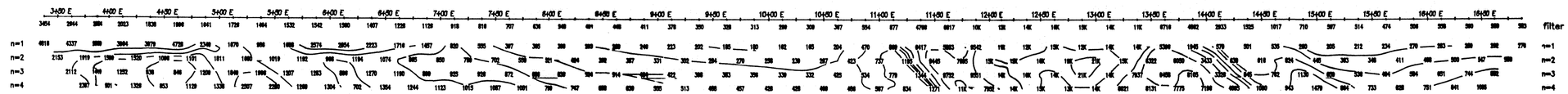
Date: 10/94
Interpretation: D. Londry

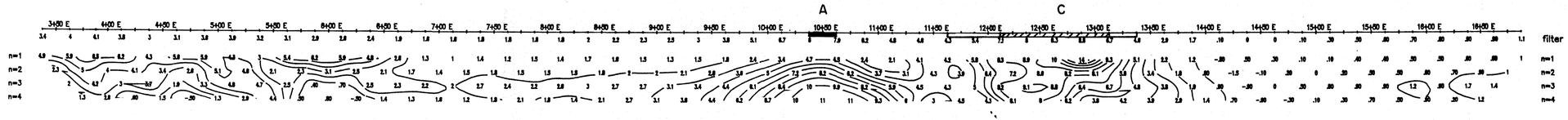
Timmins Geophysics Ltd.

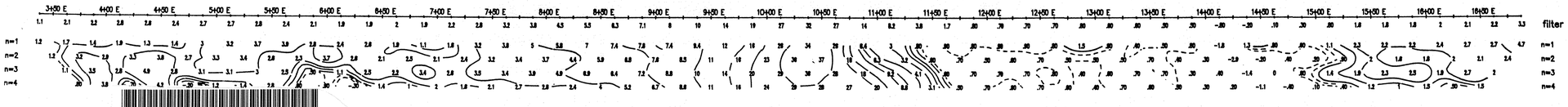
Geosoft Software for the Earth Sciences





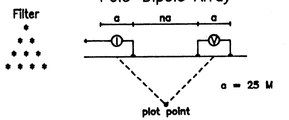






Line 3500 N

Pole–Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 890 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

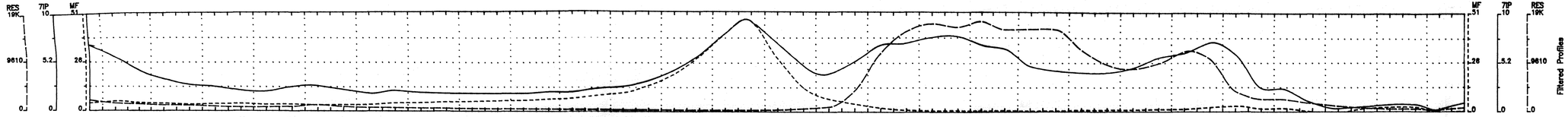
25 0 25 50 75 100 125 150
(meters)

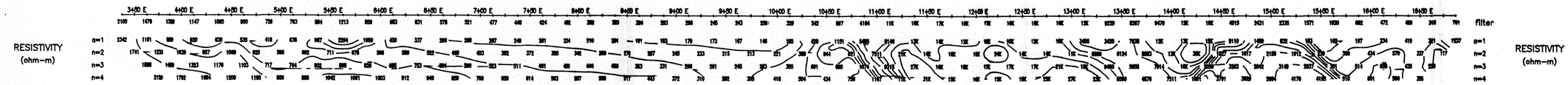
ROYAL OAK MINES INC.

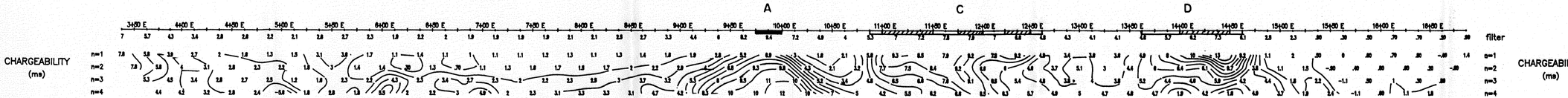
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

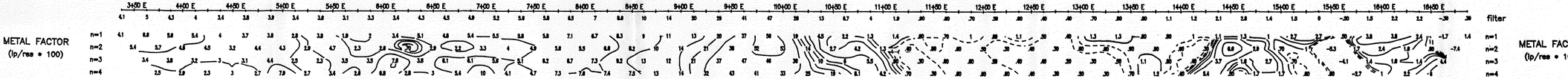
Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.



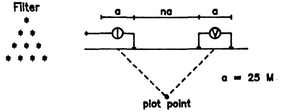






Line 3400 N

Pole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

INTERPRETATION

■ Strong increase in polarization accompanied by marked decrease in resistivity.

Well defined increase in polarization without marked resistivity decrease.

□ Poorly defined polarization increase with no resistivity signature.

▽ Low resistivity feature.

Scale 1:2400

25 0 25 50 75 100 125 150
(meters)

ROYAL OAK MINES INC.

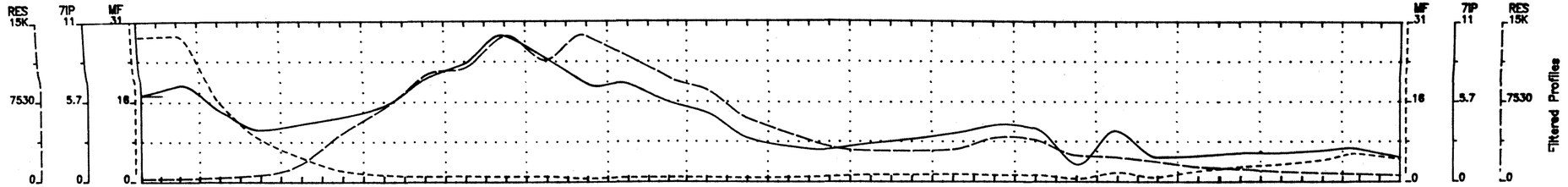
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

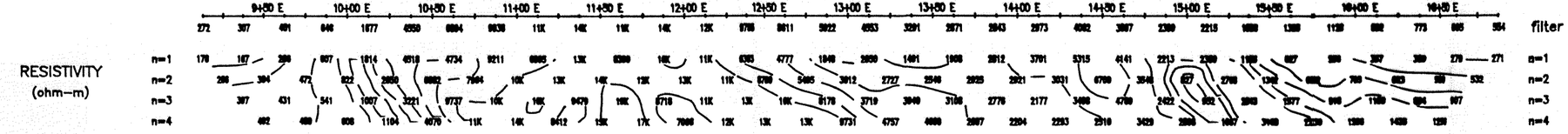
Date: 10/94
Interpretation: D. Londry

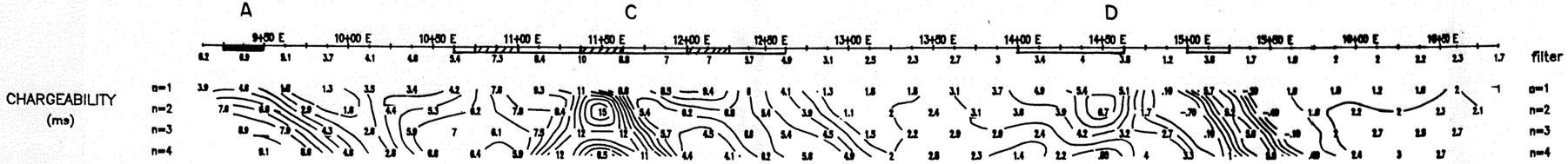
Timmins Geophysics Ltd.

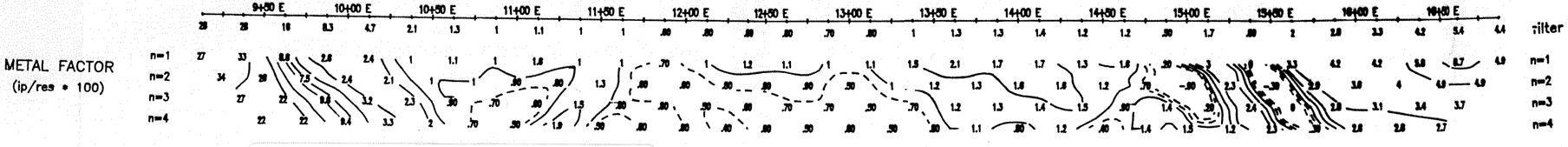
Geosoft Software for the Earth Sciences





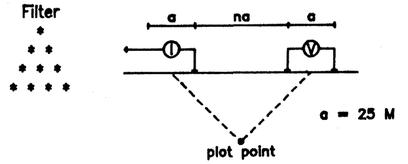






Line 3300 N

Pole–Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

NTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ▨ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

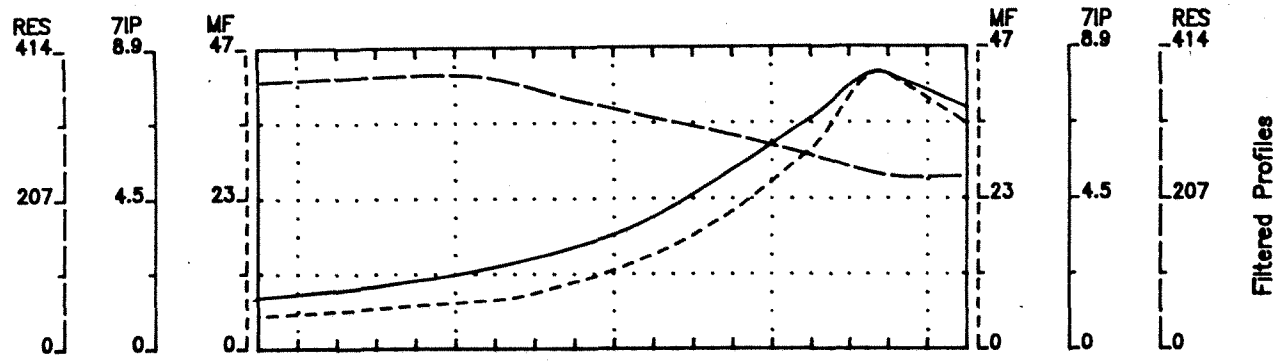
25 0 25 50 75 100 125 150
(meters)

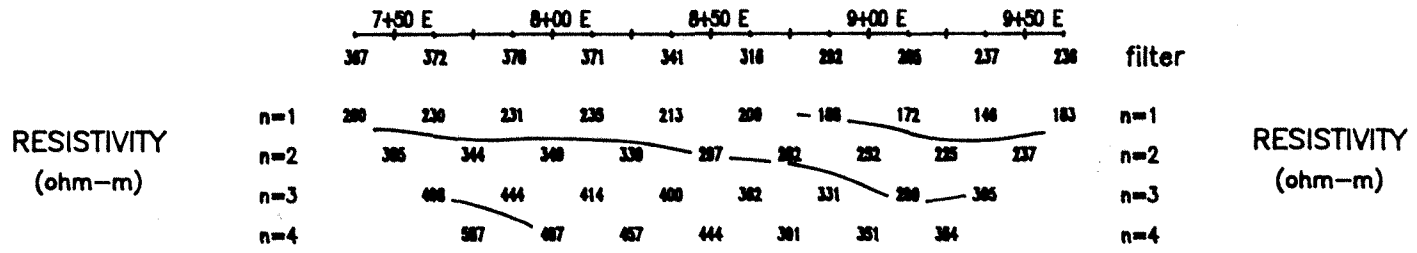
ROYAL OAK MINES INC.
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP
Date: 10/94
Interpretation: D. Londry
Timmins Geophysics Ltd.

Geosoft Software for the Earth Sciences

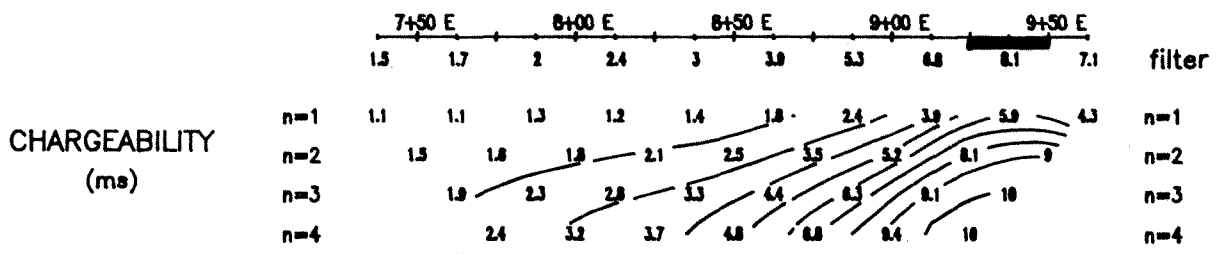


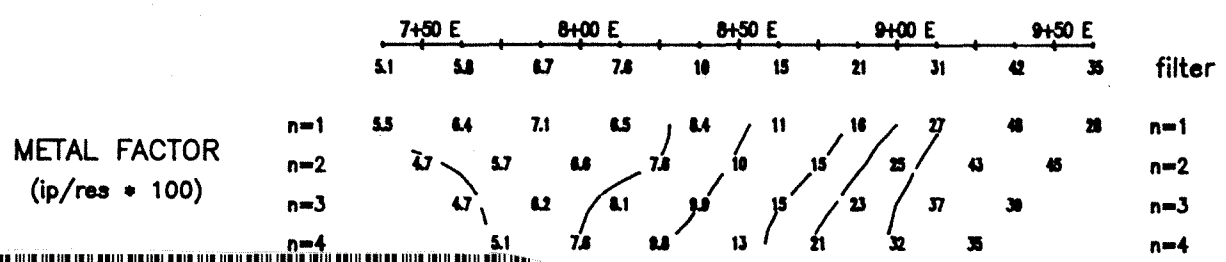
32D04NE2079 om94-037 MCVITTIE





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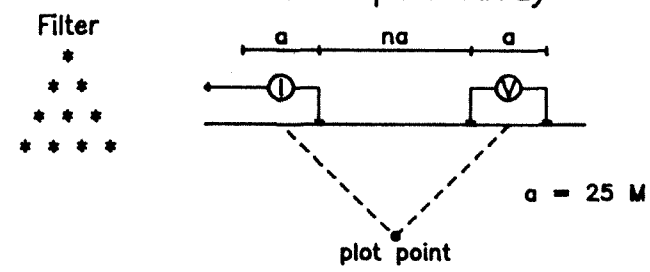




32D04NE2079 om94-037 MCVITTIE

Line 3325 N

Pole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

INTERPRETATION

■ Strong increase in polarization accompanied by marked decrease in resistivity.

▨ Well defined increase in polarization without marked resistivity decrease.

□ Poorly defined polarization increase with no resistivity signature.

▽ Low resistivity feature.

Scale 1:2400

25 0 25 50 75 100 125 150

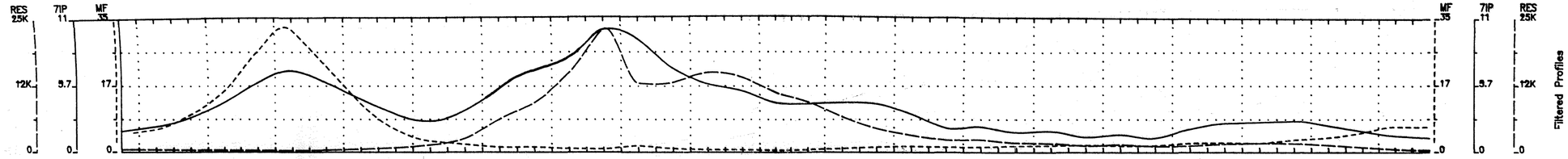
(meters)

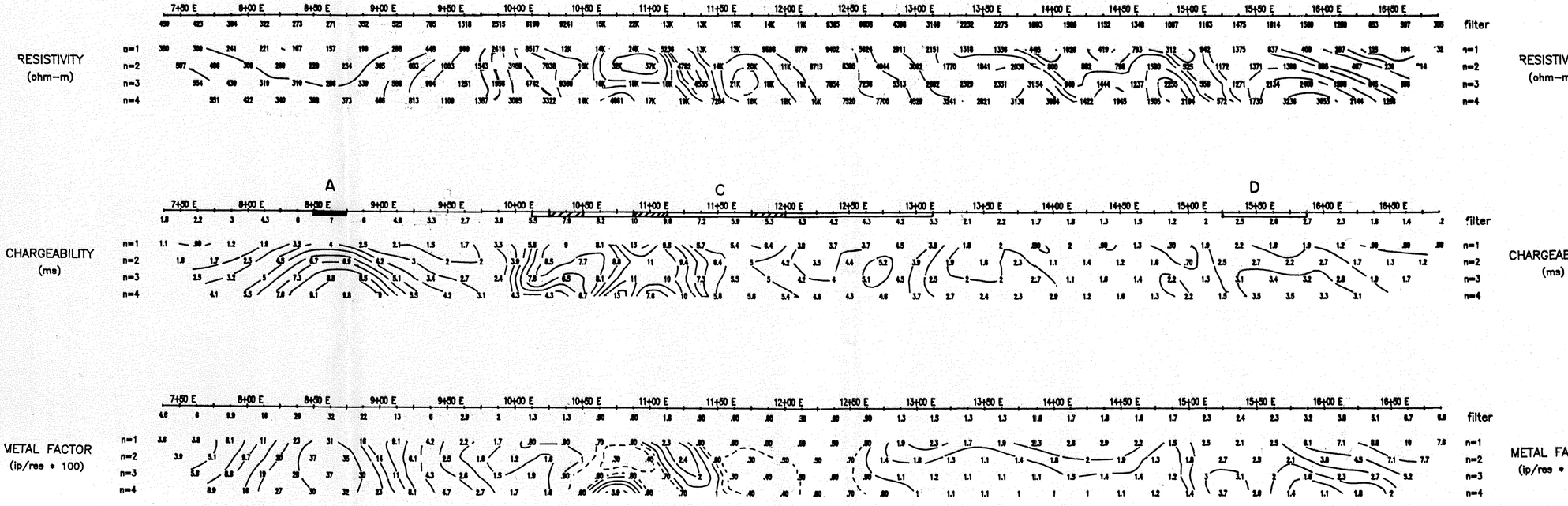
ROYAL OAK MINES INC.

INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

Date: 10/94
Interpretation: D. Londry

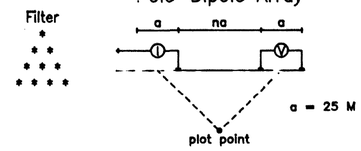
Timmins Geophysics Ltd.





Line 3200 N

Pole-Dipole Array



ogarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

NTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

25 0 25 50 75 100 125 150
meters)

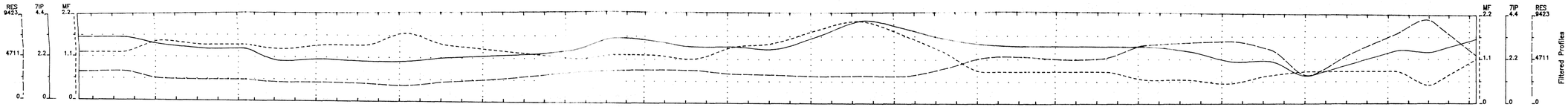
ROYAL OAK MINES INC.

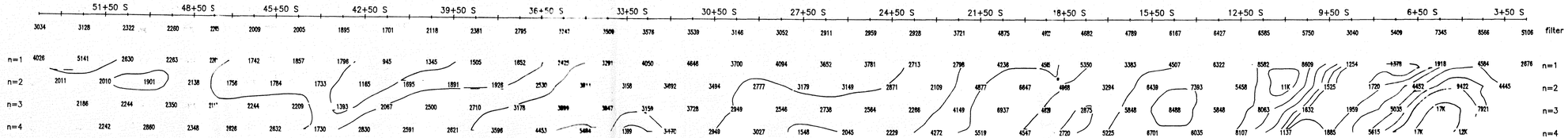
NDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

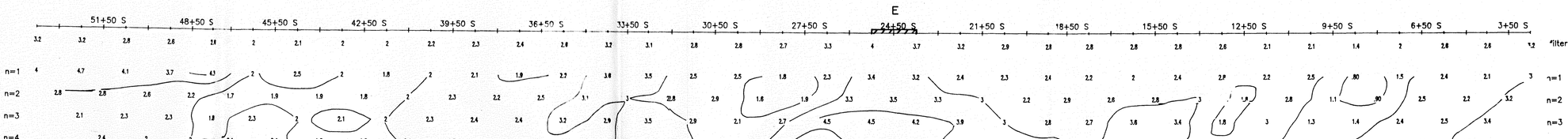
Date: 10/94
nterpretation: D. Londry

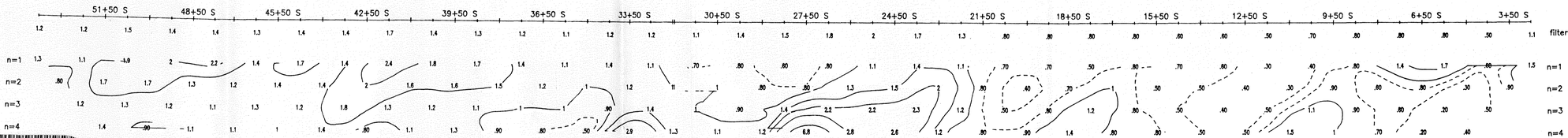
Timmins Geophysics Ltd.

32D04NE2079 om94-037 MCVITTIE 400



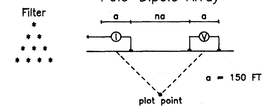






Line 5200 W

Pole–Dipole Array



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

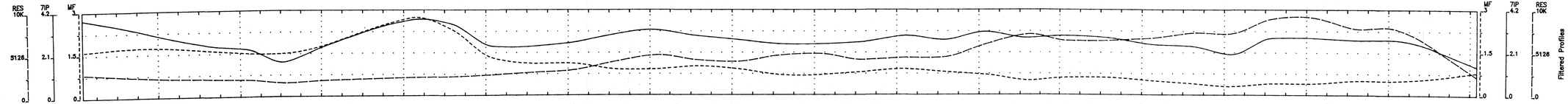
ROYAL OAK MINES INC.

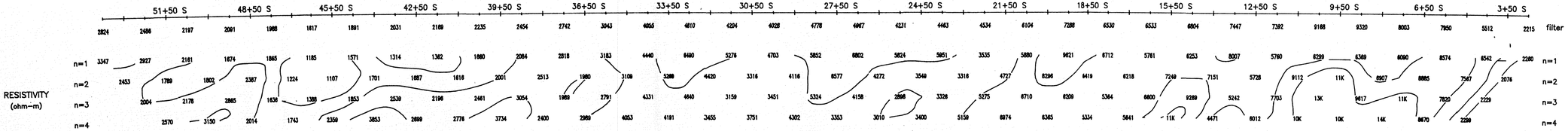
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

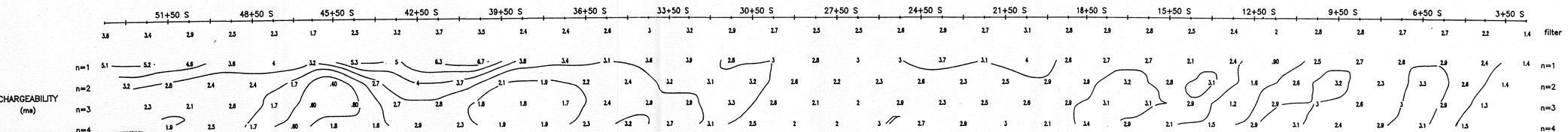
Date: 10/94
Interpretation: D. Londry

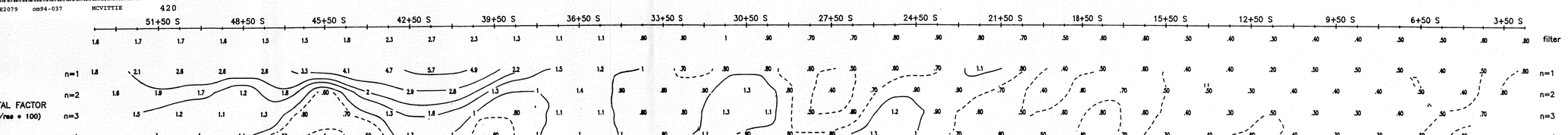
Timmins Geophysics Ltd.

32D04NE2079 om94-037 MCVITTIE









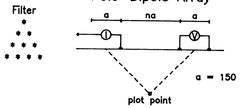
32D04NE2079 om94-037 MCVITTIE

420

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Line 4800 W

Pole-Dipole Array



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: 100 ohm-m
Chargeability: 2 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- Low resistivity feature.

Scale 1:2400

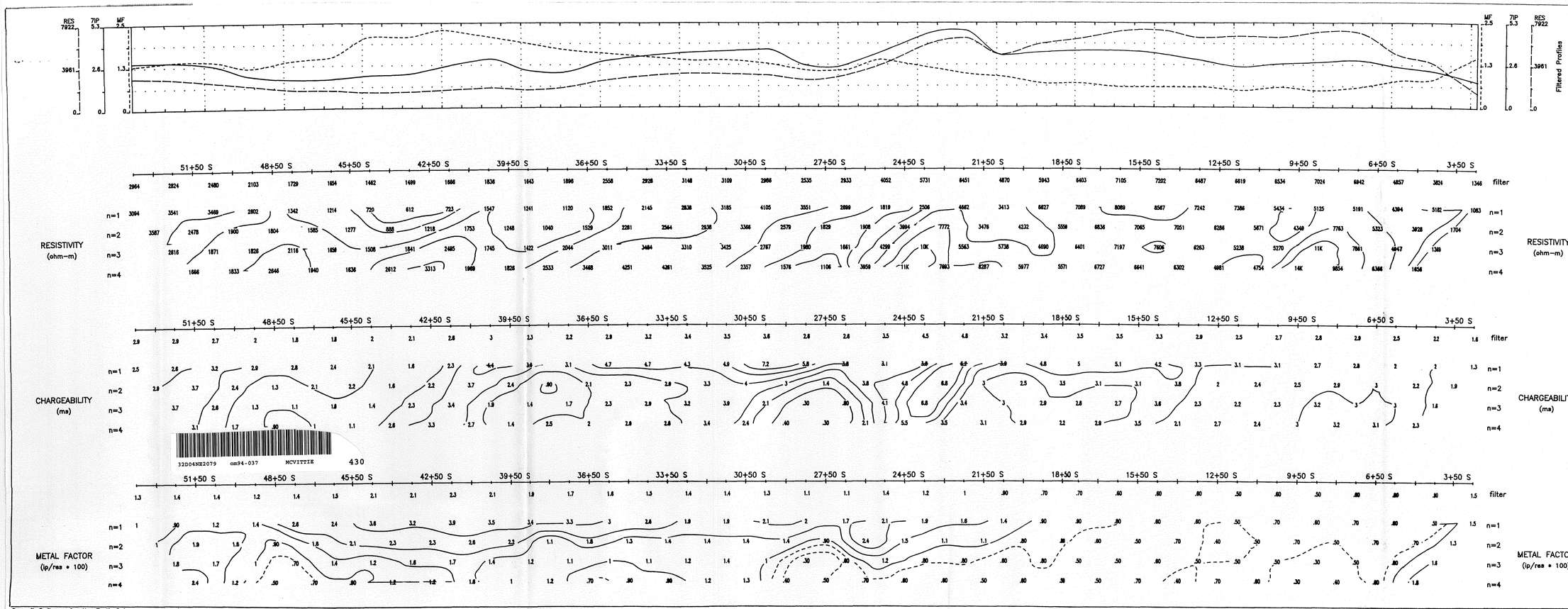
100 0 100 200 300 400 500
(feet)

ROYAL OAK MINES INC.

INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.



Line 4400 W

Pole-Dipole Array

Filter

a na a

C V

a = 150 FT

plot point

Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: 100 ohm-m
Chargeability: 2 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

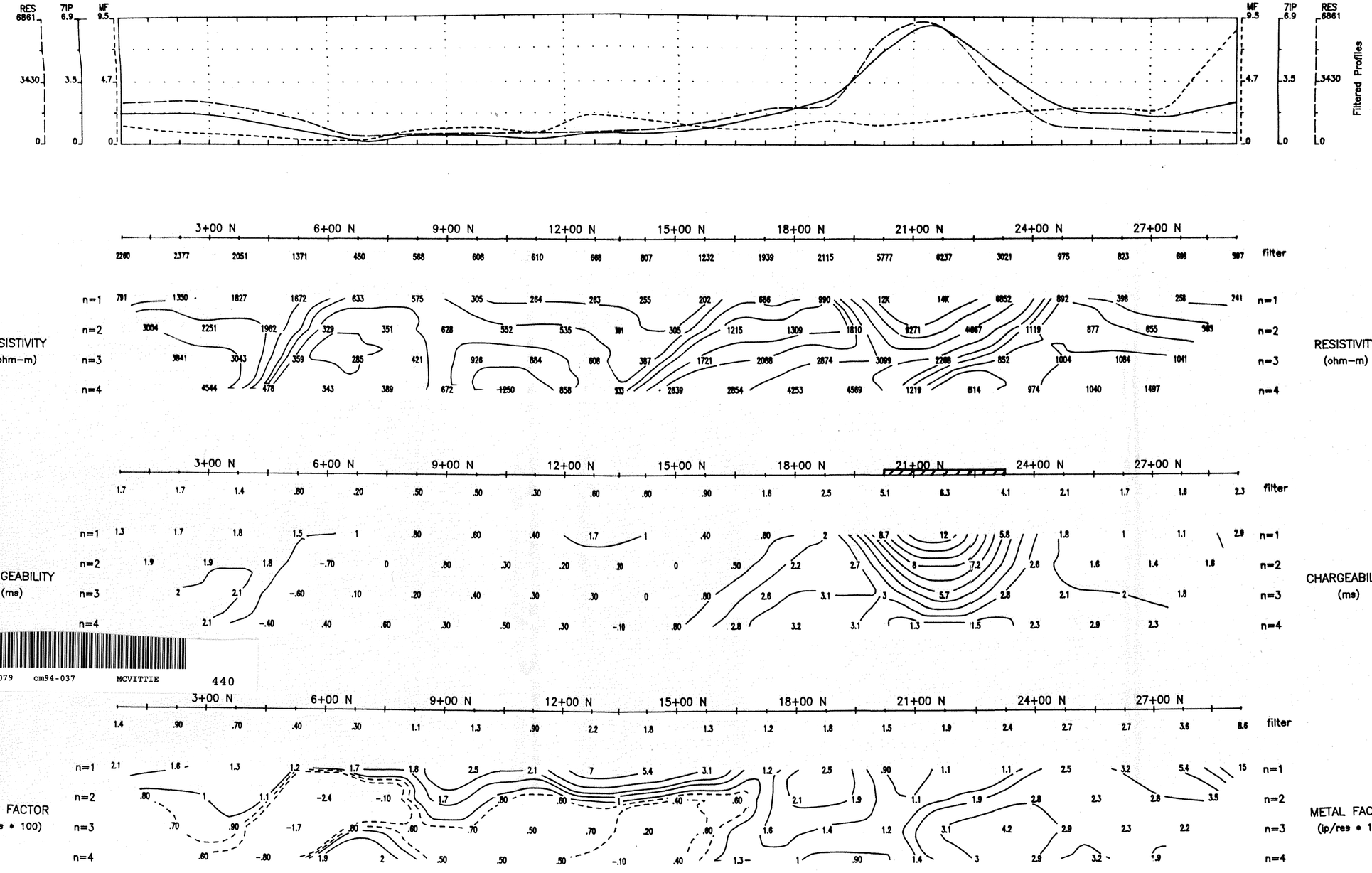
INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500 (feet)

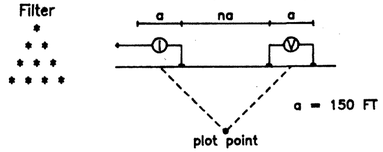
ROYAL OAK MINES INC.
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP
Date: 10/94
Interpretation: D. Londry
Timmins Geophysics Ltd.



32D04NE2079 om94-037 MCVITTIE 440

Line 4200 W

Pole-Dipole Array



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: 100 ohm-m
Chargeability: 2 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ▨ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500 (feet)

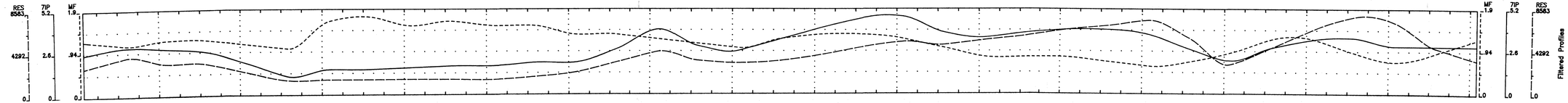
ROYAL OAK MINES INC.

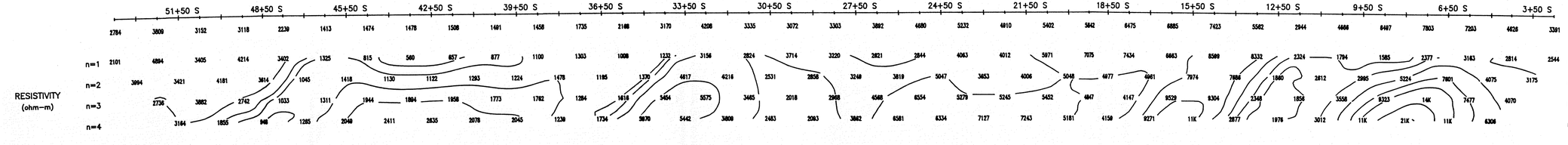
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

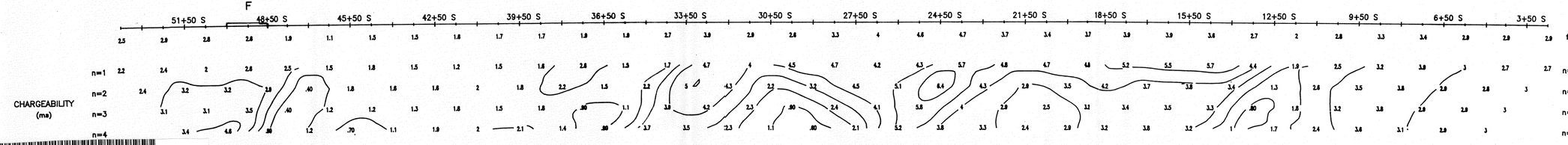
Date: 10/94
Interpretation: D. Londry

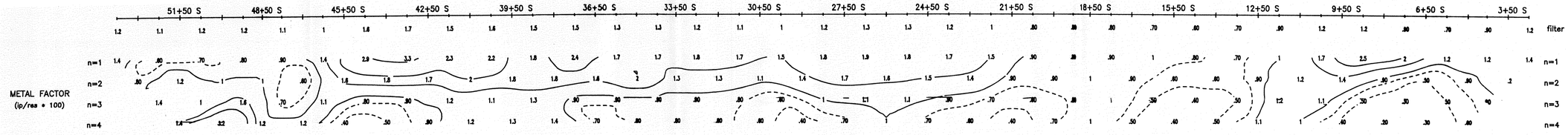
Timmins Geophysics Ltd.

Geosoft Software for the Earth Sciences









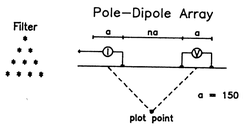
32D04NE2079 om94-037 MCVITTIE

450

Geosoft Software for the Earth Sciences

Line 4000 W

Pole-Dipole Array



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: 100 ohm-m
Chargeability: 2 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ▨ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

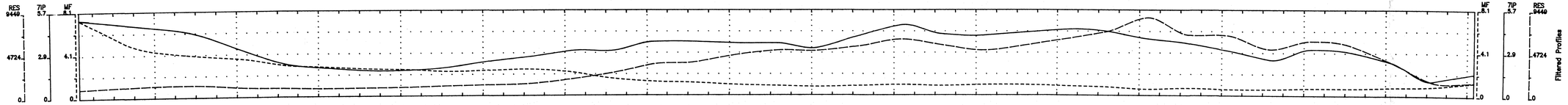
100 0 100 200 300 400 500
(feet)

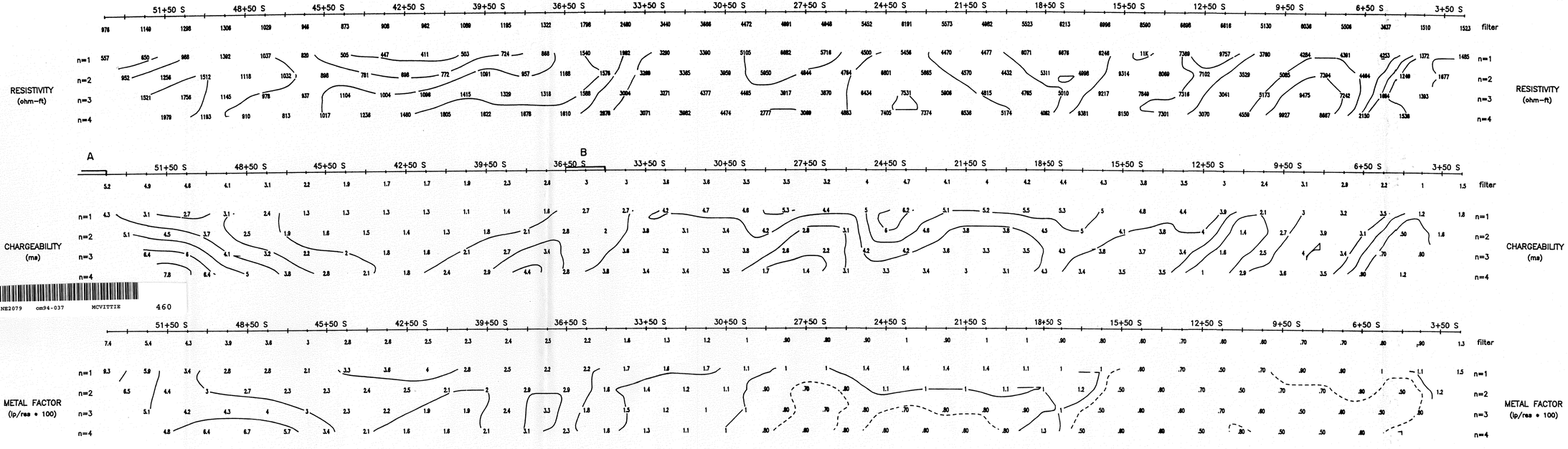
ROYAL OAK MINES INC.

INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.



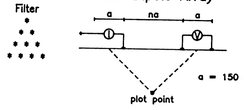


32D04NE2079 cm94-037 MCVITTIE 460

Geosoft Software for the Earth Sciences

Line 3600 W

Pole-Dipole Array



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 890 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

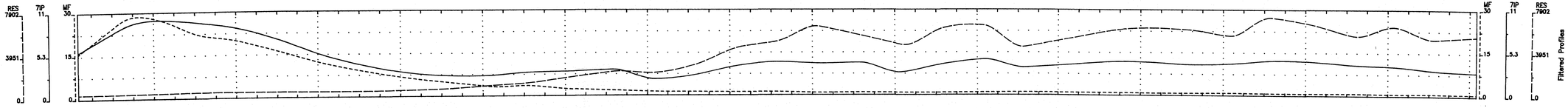
100 0 100 200 300 400 500
(feet)

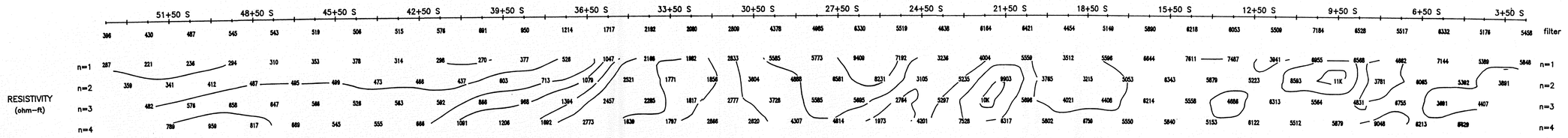
ROYAL OAK MINES INC.

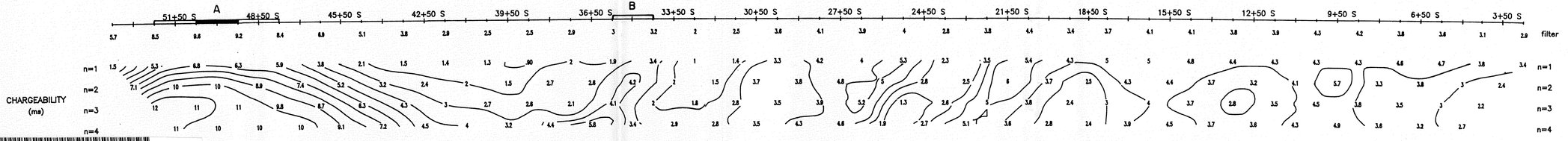
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

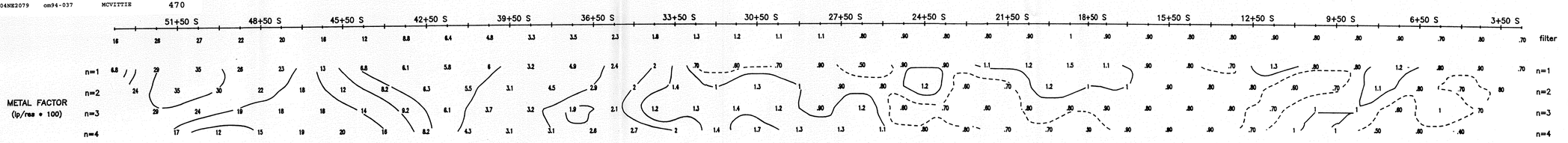
Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.







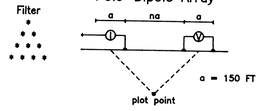


32D04NE2079 om94-037 MCVITTIE 470

Geosoft Software for the Earth Sciences

Line 3200 W

Pole–Dipole Array



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

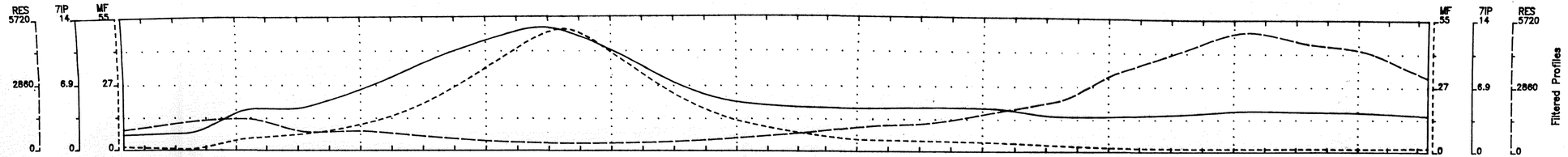
ROYAL OAK MINES INC.

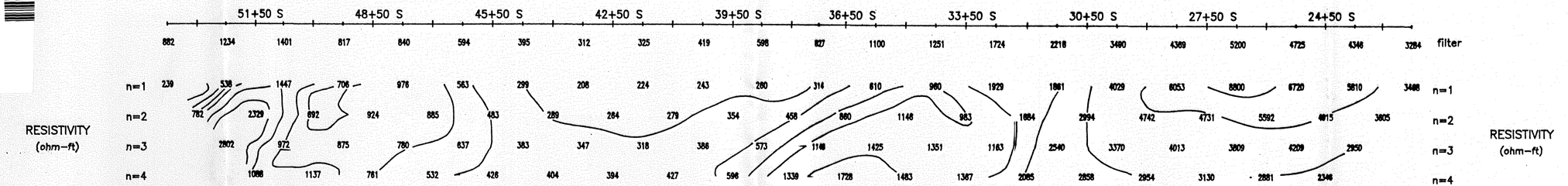
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

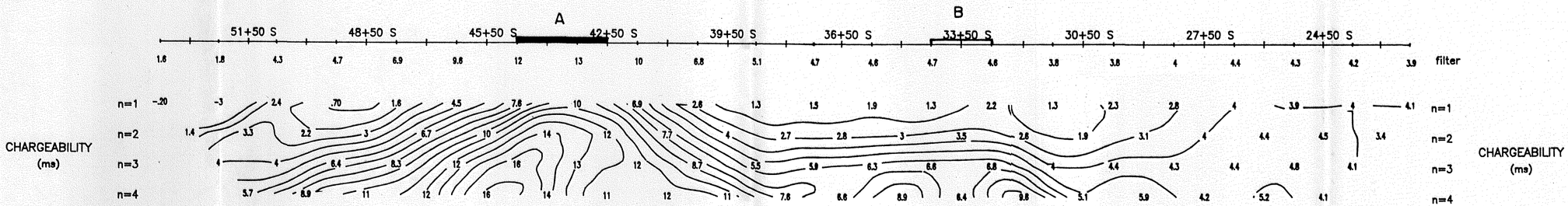
Date: 10/94
Interpretation: D. Londry

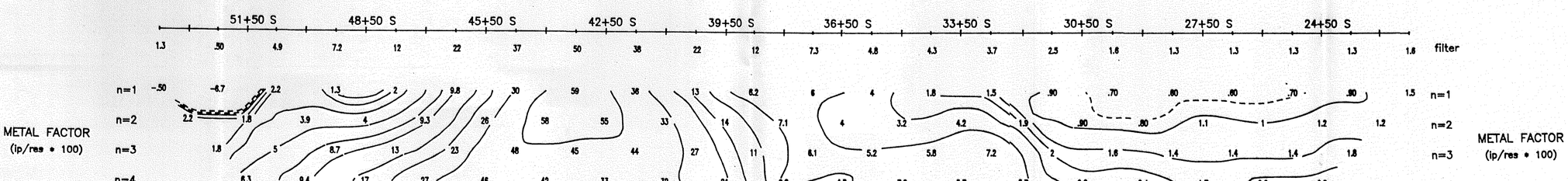
Timmins Geophysics Ltd.

32D04NE2079 cm94-037 MCVITTIE 480





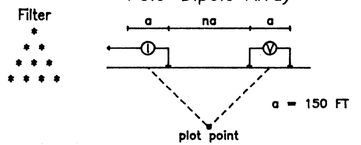




Geosoft Software for the Earth Sciences

Line 2800 W

Pole-Dipole Array



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ⊠ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

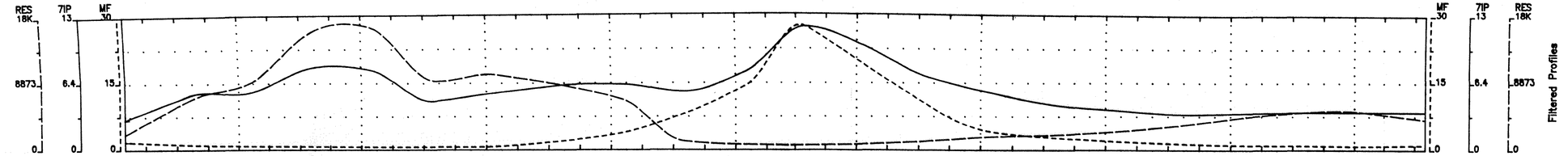
ROYAL OAK MINES INC.

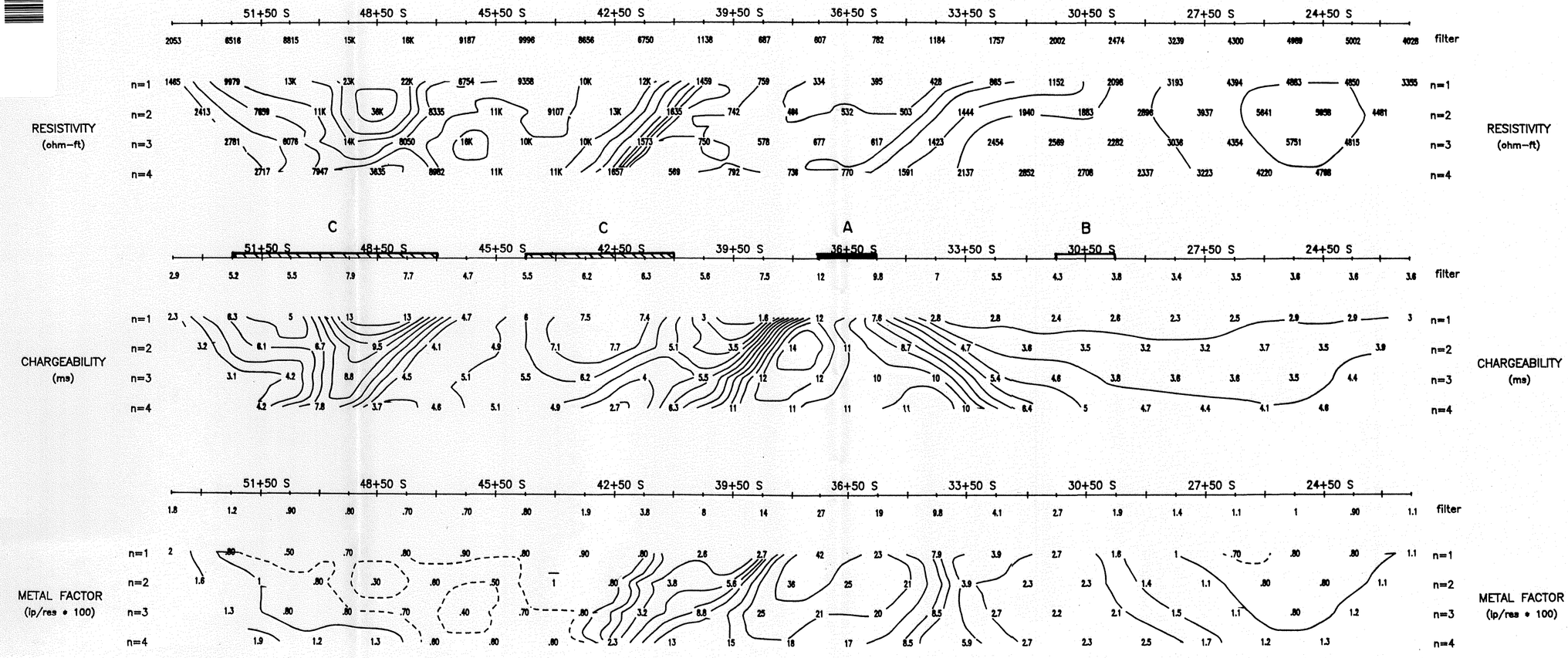
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.

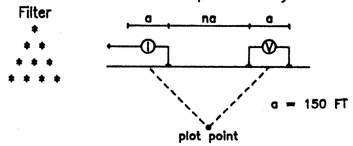
32004NE2079 cm94-037 MCVITTIE 490





Line 2400 W

Pole-Dipole Array



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

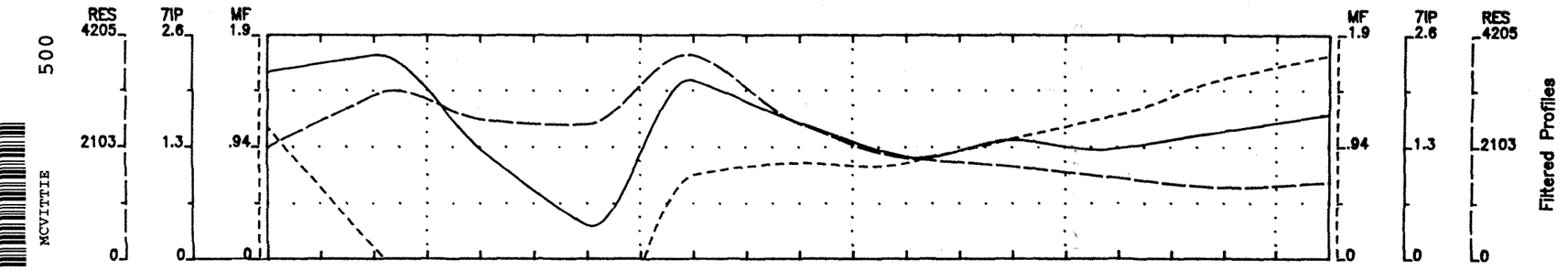
ROYAL OAK MINES INC.

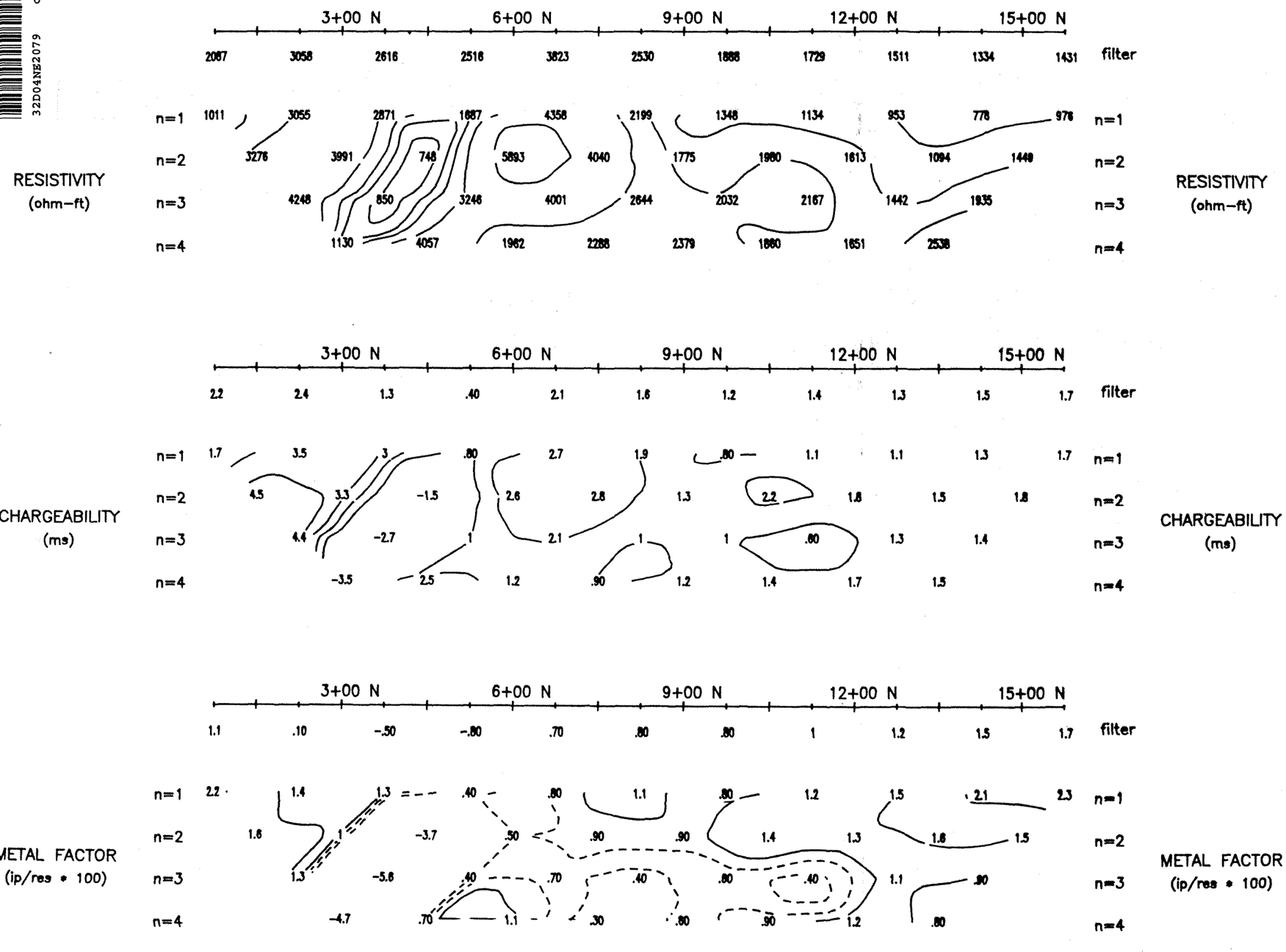
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

Date: 10/94
Interpretation: D. Londry

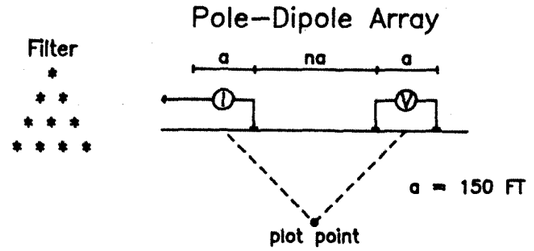
Timmins Geophysics Ltd.

32D04NE2079 om94-037 MCVITTIE 500





Line 2400 W



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ▨ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

ROYAL OAK MINES INC.

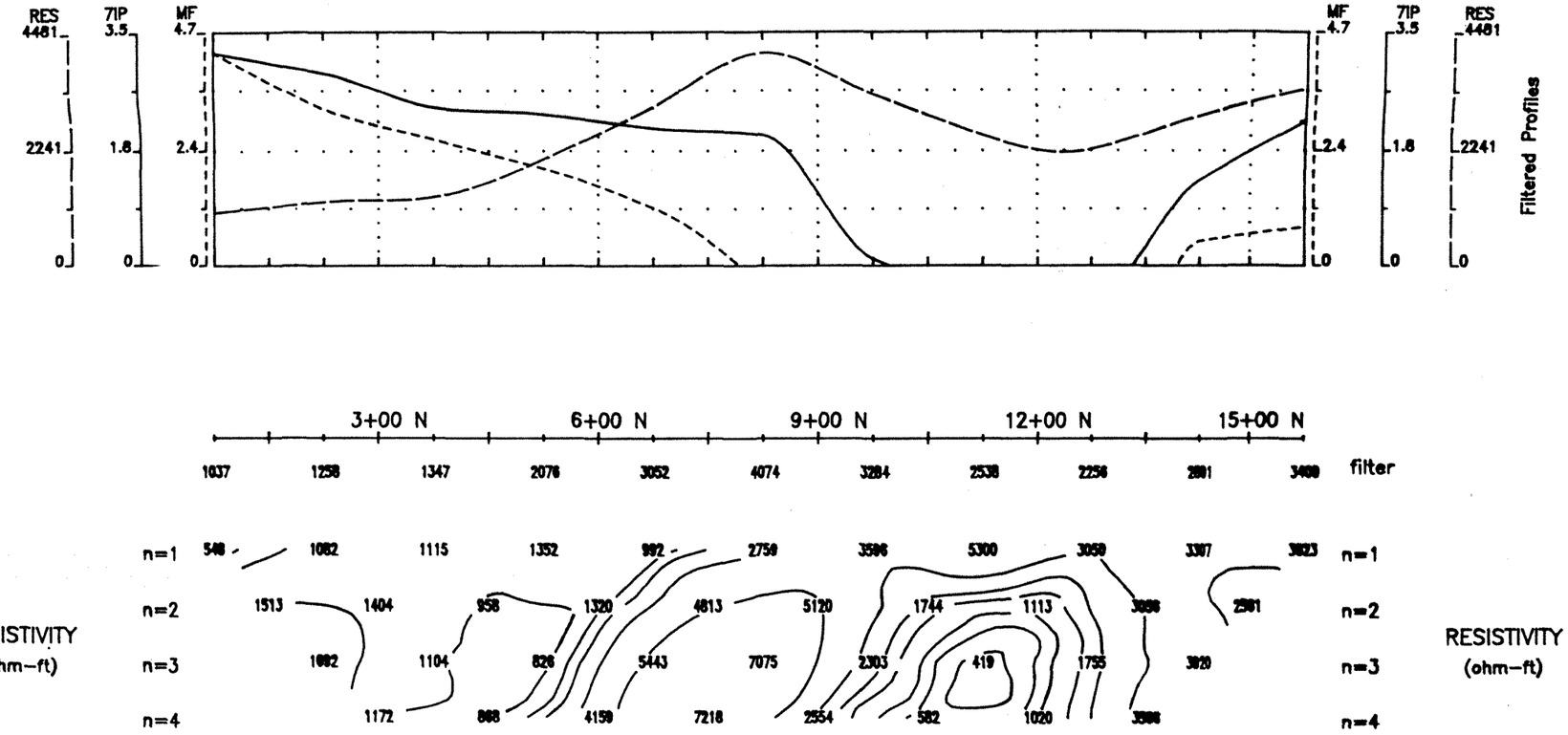
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

Date: 10/94
Interpretation: D. Londry

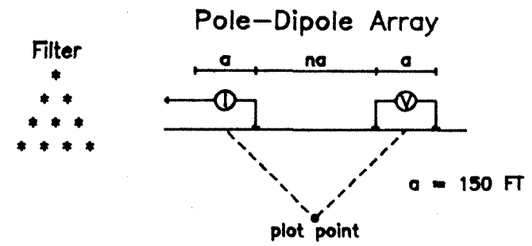
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Geosoft Software for the Earth Sciences

510
MCVITTIE
om94-037
32D04NE2079



Line 2000 W



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours: 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- Strong increase in polarization accompanied by marked decrease in resistivity.
- Well defined increase in polarization without marked resistivity decrease.
- Poorly defined polarization increase with no resistivity signature.
- Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

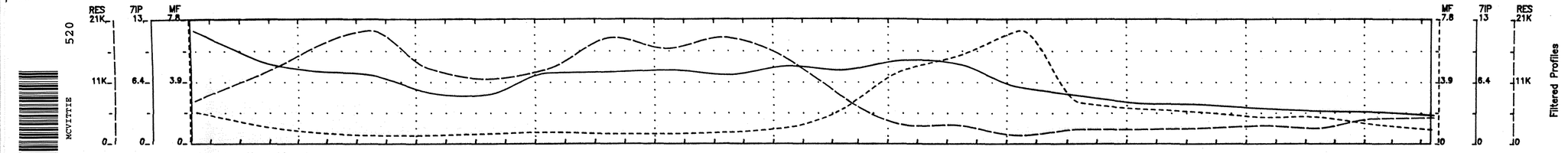
ROYAL OAK MINES INC.

INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

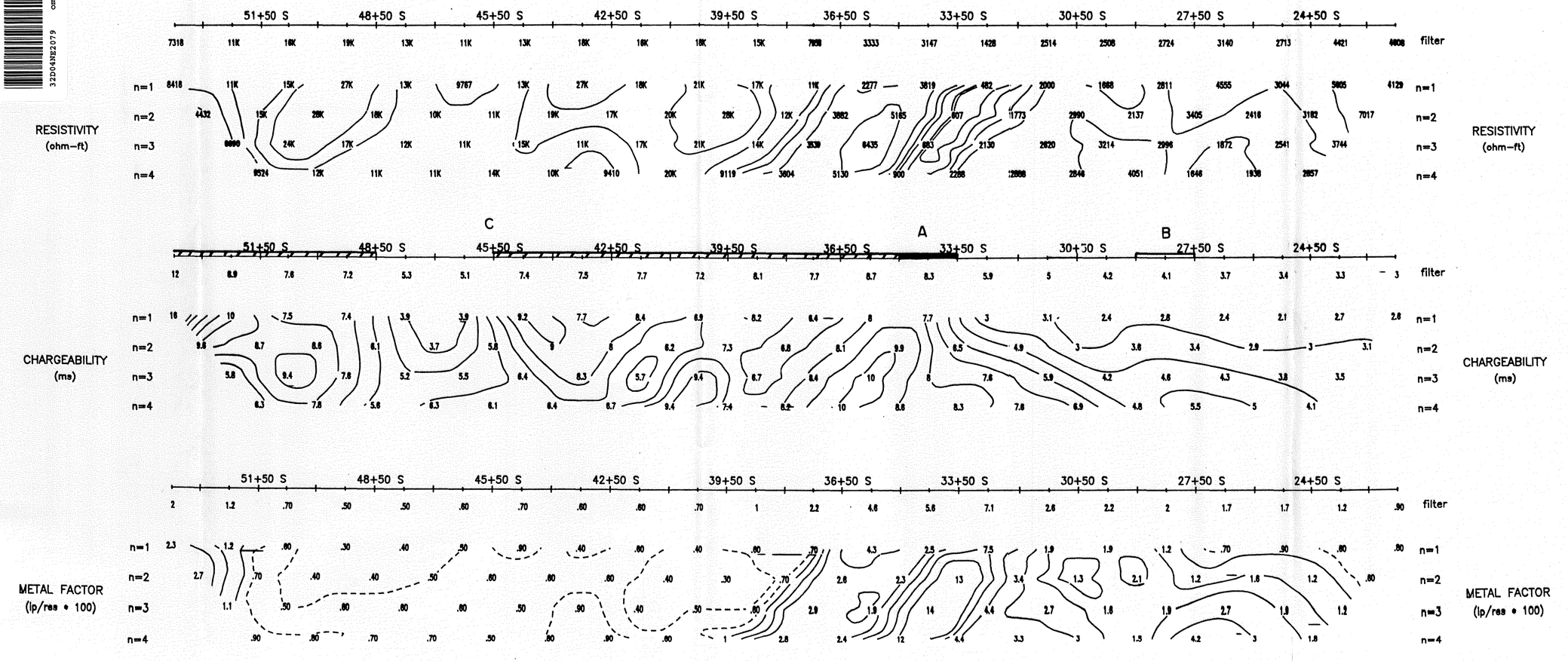
Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.

Geosoft Software for the Earth Sciences

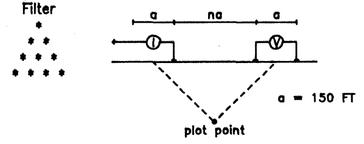






Line 2000 W

Pole-Dipole Array



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ⊠ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

ROYAL OAK MINES INC.

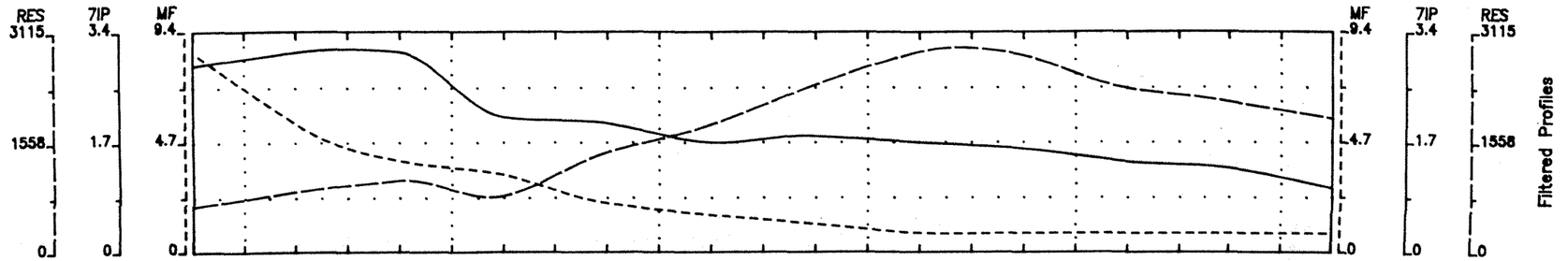
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

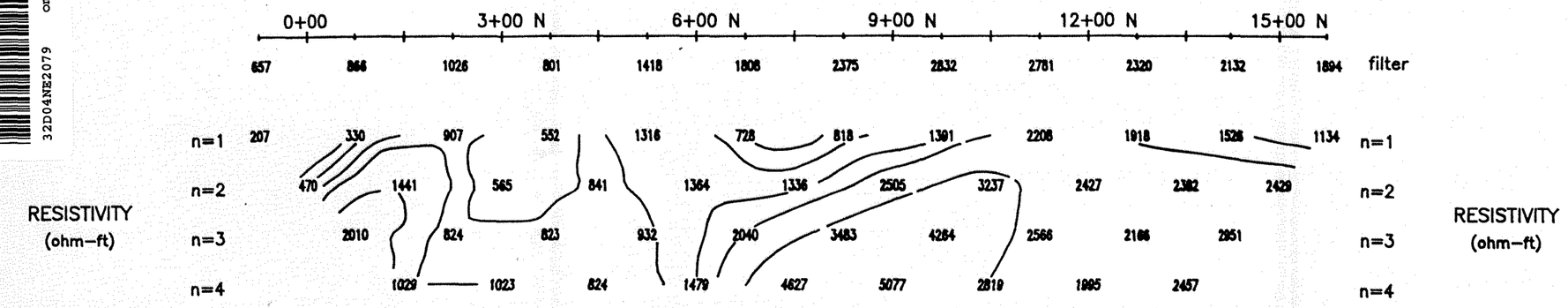
Date: 10/94
Interpretation: D. Londry

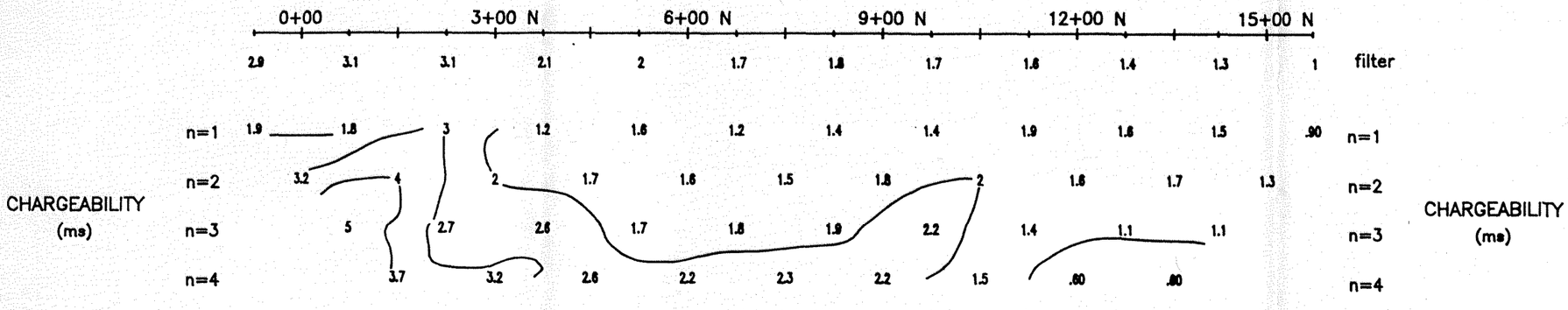
Timmins Geophysics Ltd.

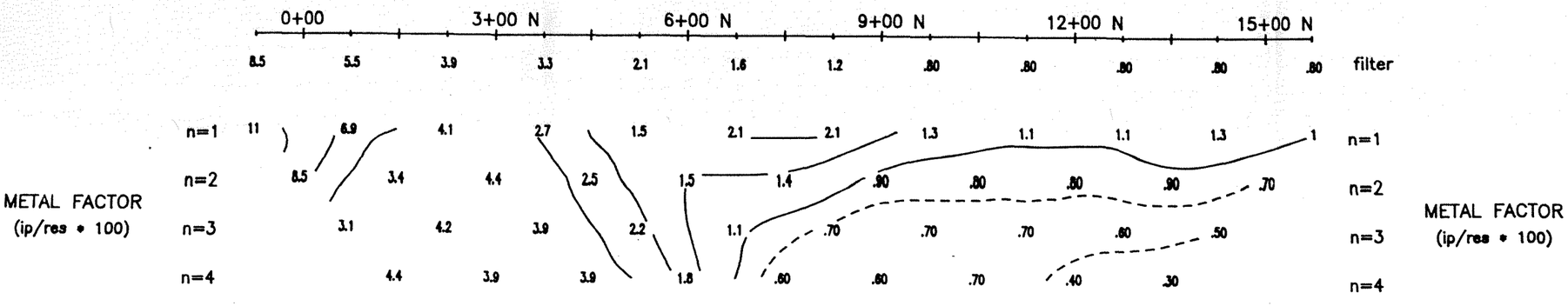
Geosoft Software for the Earth Sciences

530
MCVITTIE
om94-037
32D04NE2079

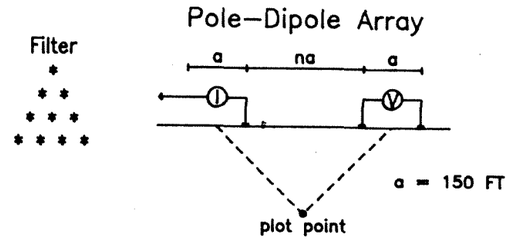








Line 1600 W



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ▨ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

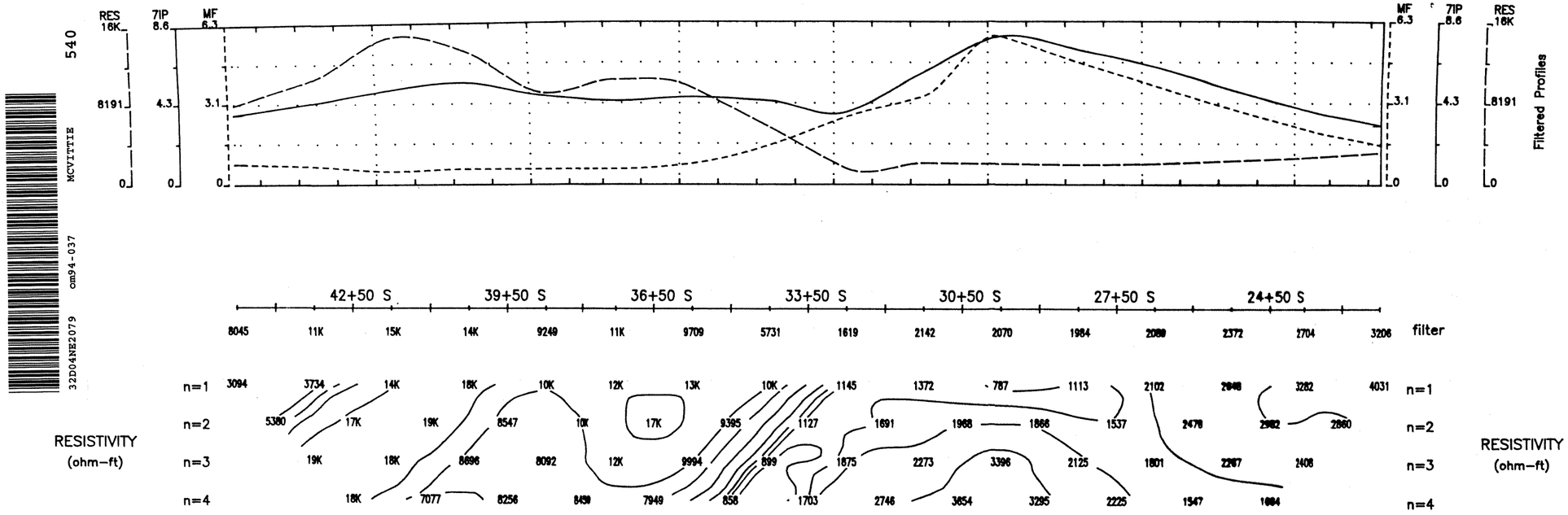
ROYAL OAK MINES INC.

INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.

Geosoft Software for the Earth Sciences

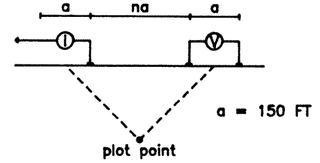


540 MCVITTIE cm94-037 32D04NE2079

Line 1600 W

Pole-Dipole Array

Filter



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ▨ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500 (feet)

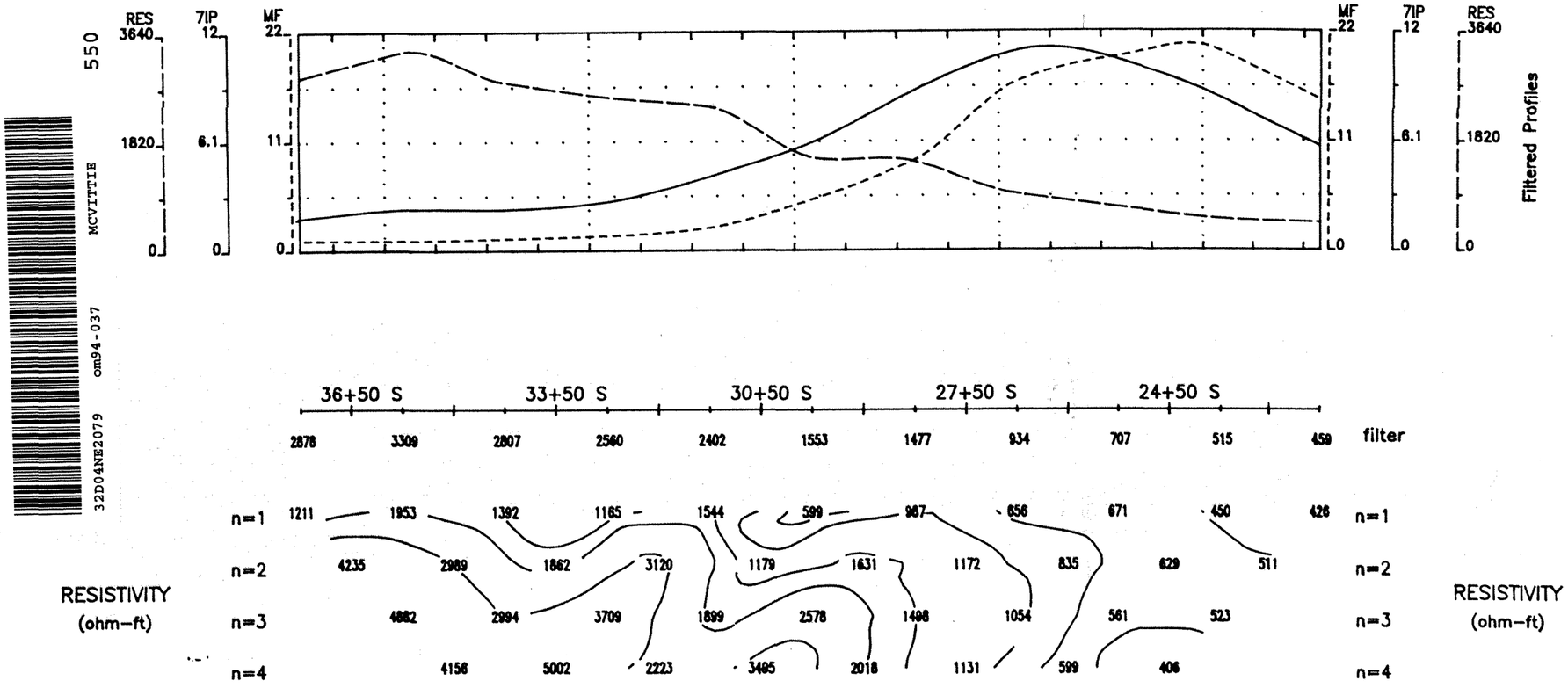
ROYAL OAK MINES INC.

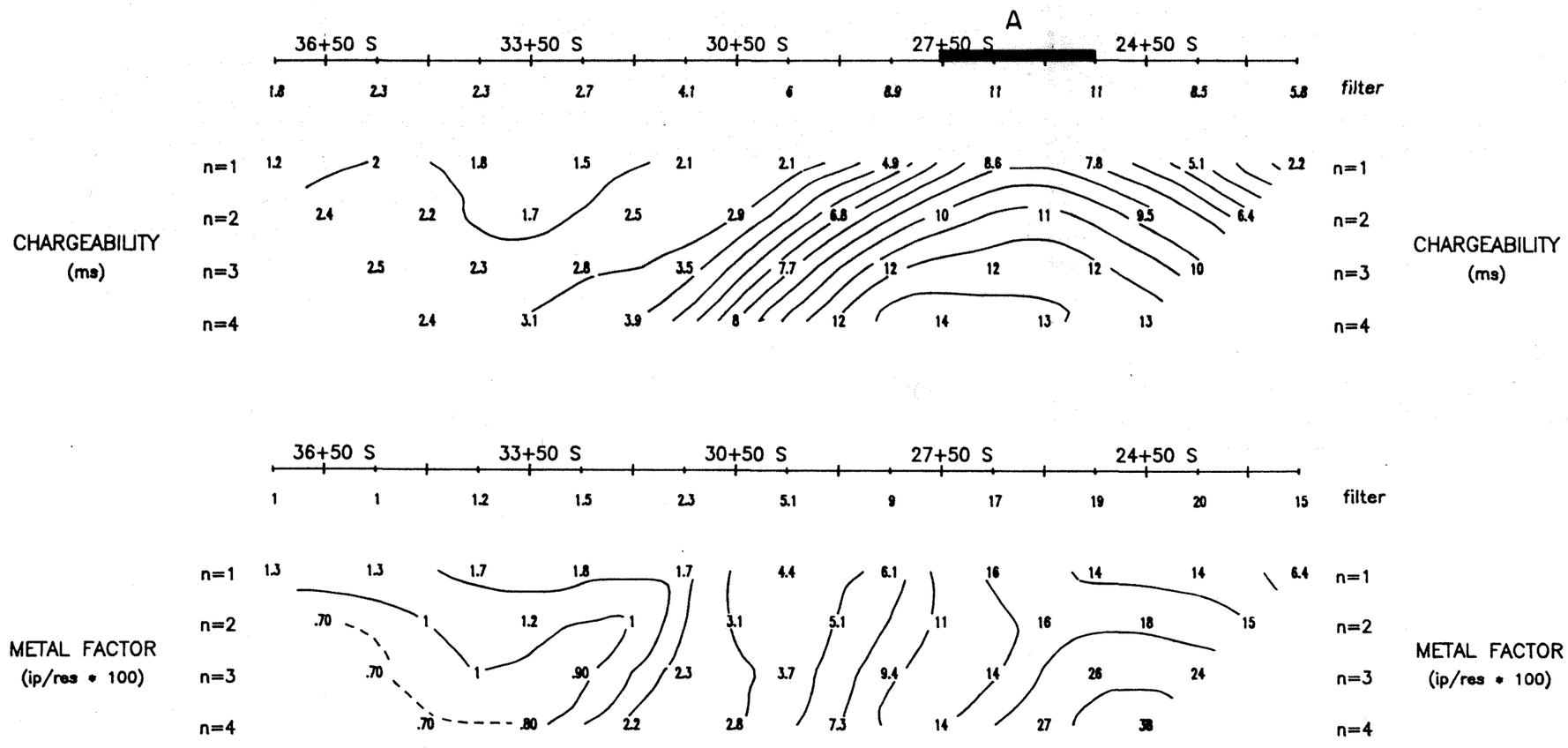
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

Date: 10/94
Interpretation: D. Londry

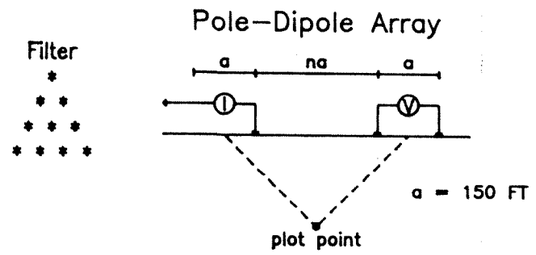
Timmins Geophysics Ltd.

Geosoft Software for the Earth Sciences





Line 1200 W



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ▨ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

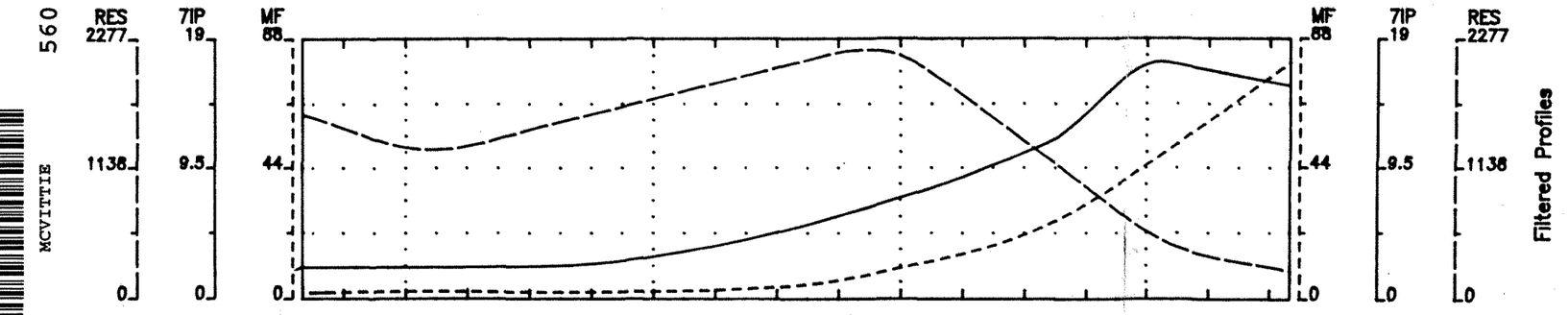
ROYAL OAK MINES INC.

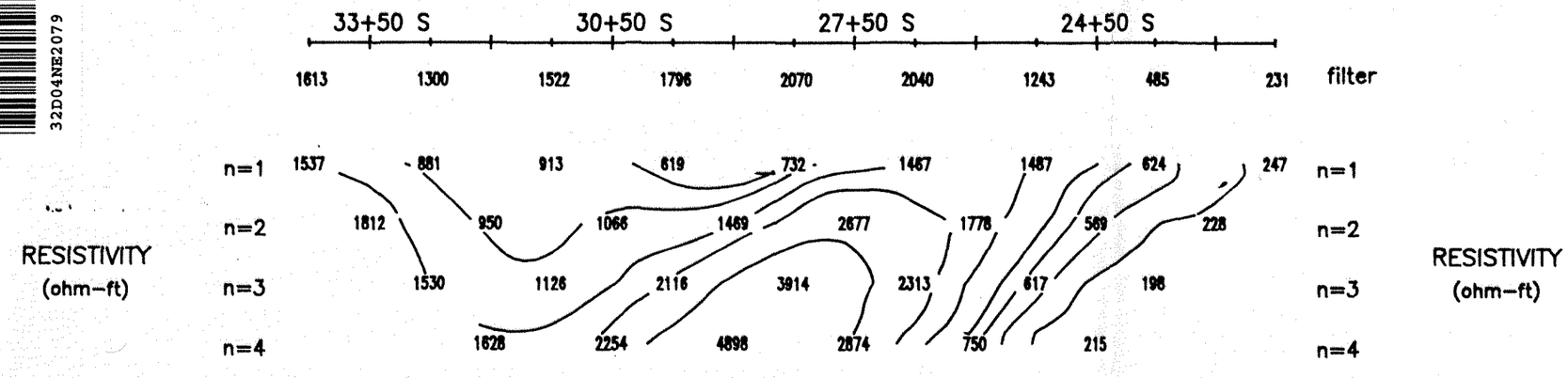
NDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

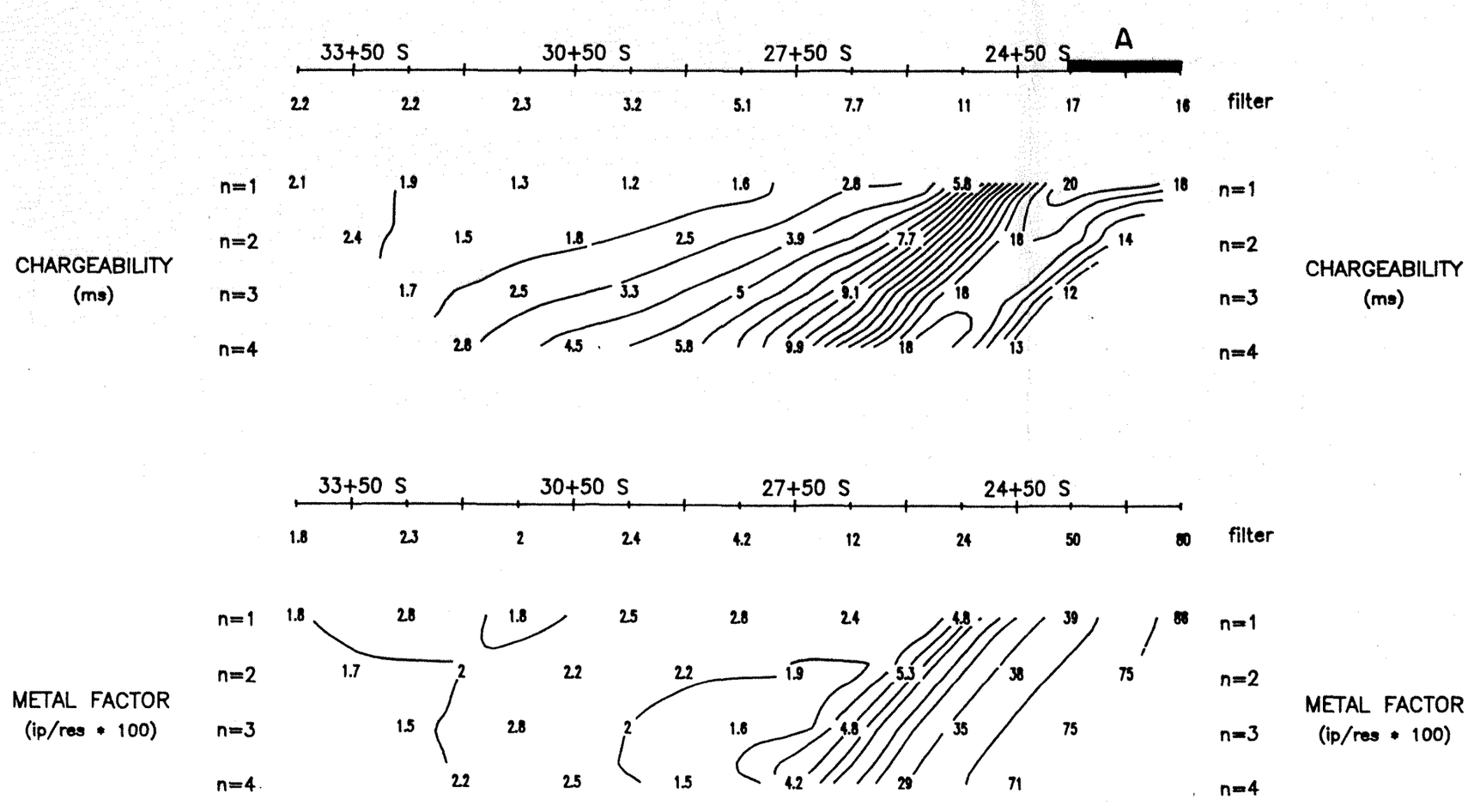
Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.

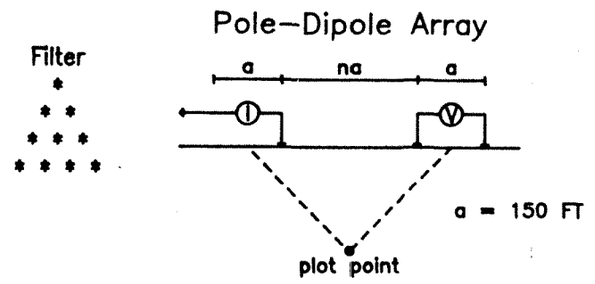
560 MCVITTIE om94-037 32D04NE2079







Line 800 W



Reciever: Scintrex IPR–11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ–3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ⧄ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

100 0 100 200 300 400 500
(feet)

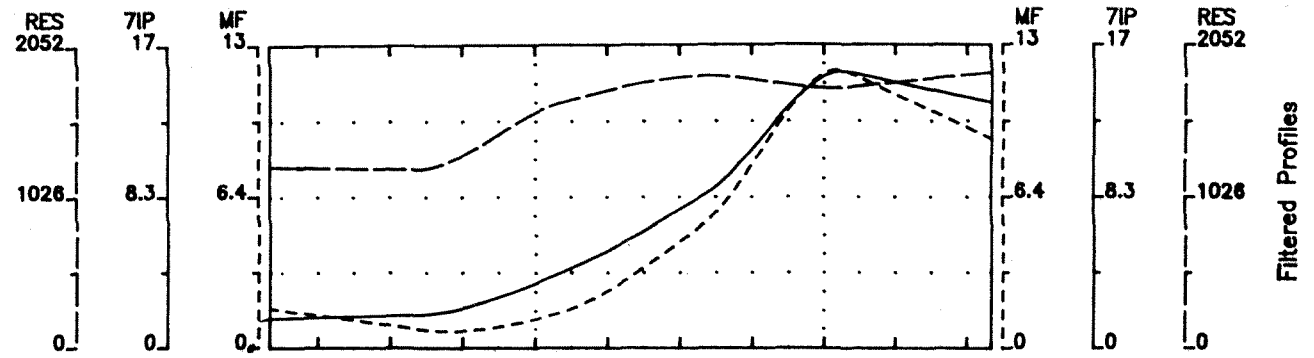
ROYAL OAK MINES INC.

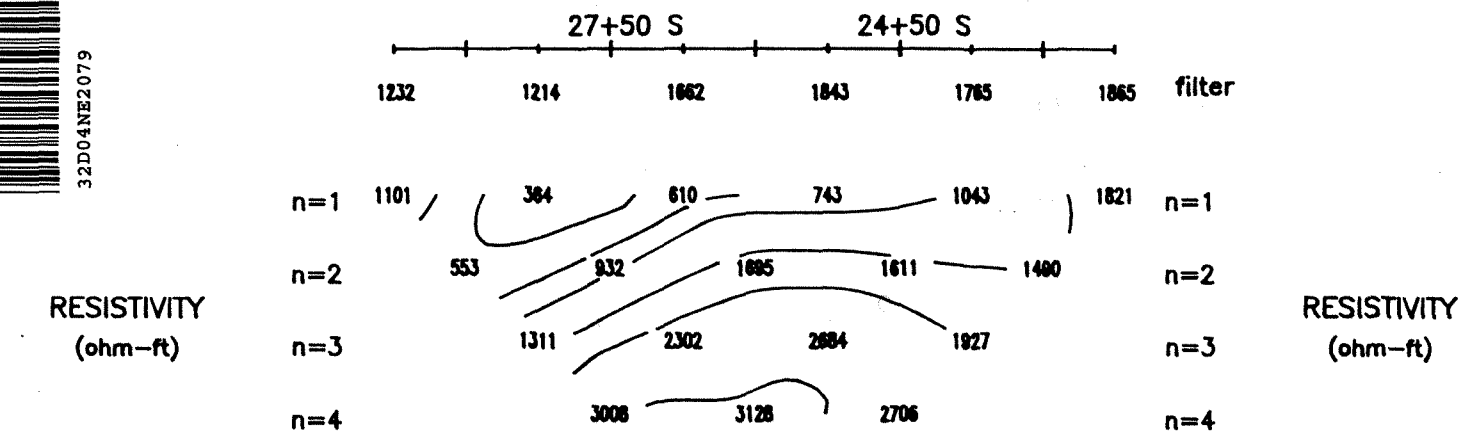
INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

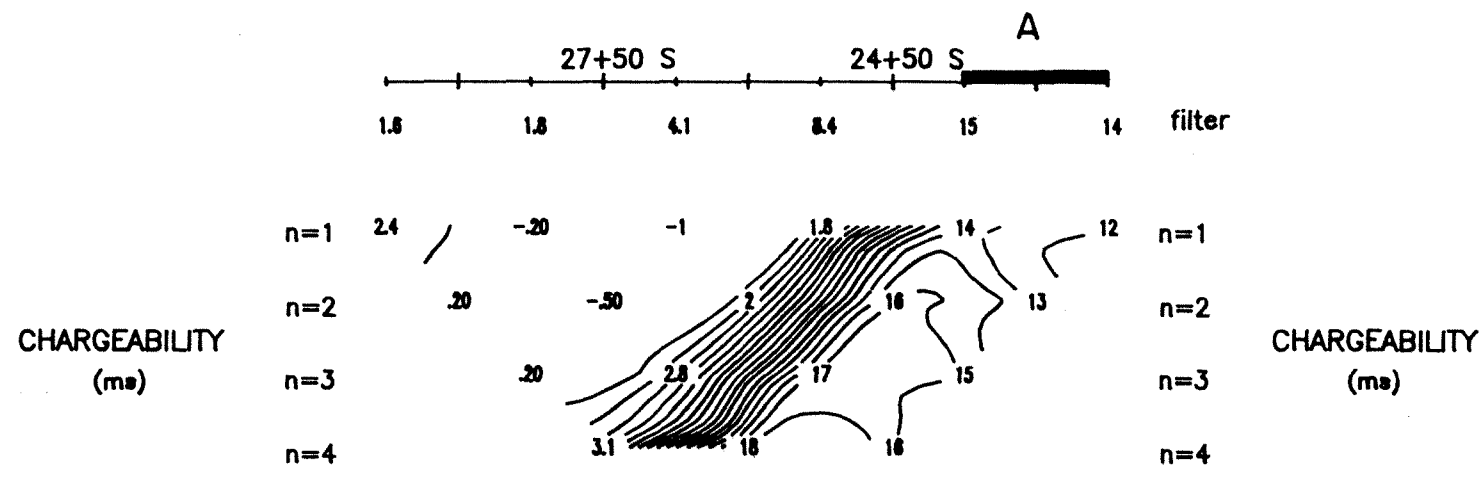
Date: 10/94
Interpretation: D. Londry

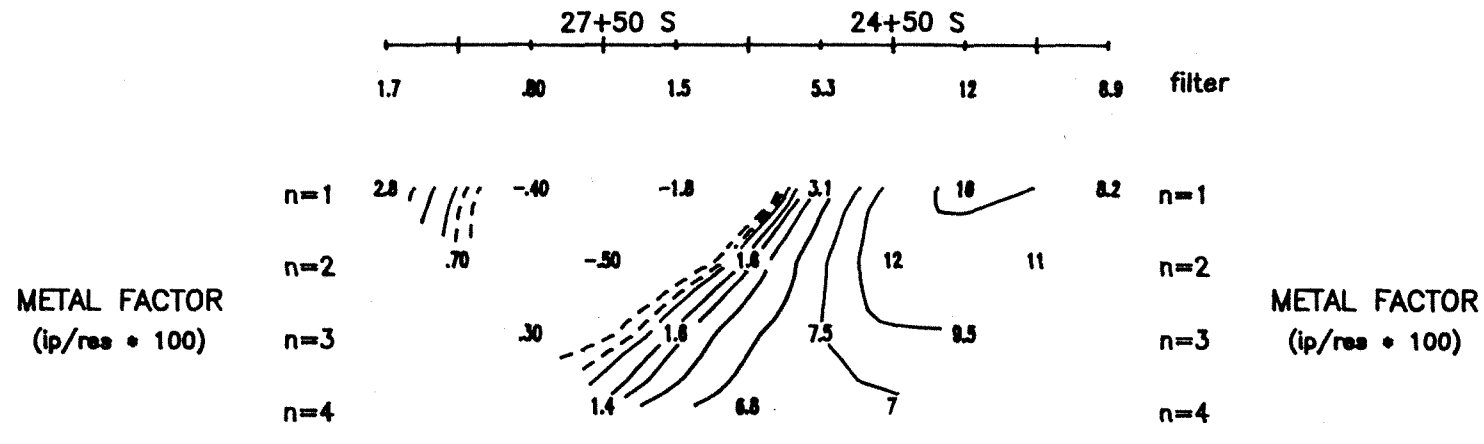
Timmins Geophysics Ltd.

570 MCVITTIE om94-037 32D04NE2079

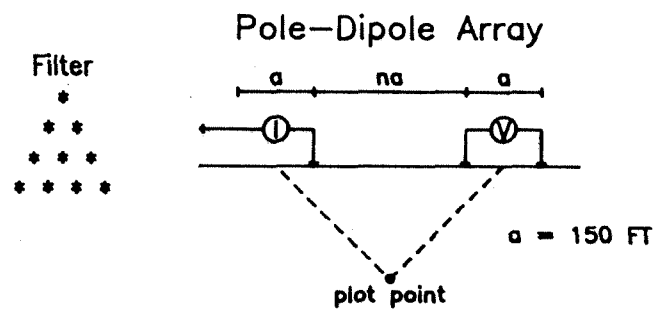








Line 400 W



Reciever: Scintrex IPR-11
Type: Spectral Time Domain
Transmitter: Scintrex TSQ-3, 3kW
Delay Time: 690 ms
Integration Time: 360 ms

CONTOUR INTERVALS

Resistivity: log
Chargeability: 1 ms
Metal Factor: log

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,..

INTERPRETATION

- ■ Strong increase in polarization accompanied by marked decrease in resistivity.
- ☑ Well defined increase in polarization without marked resistivity decrease.
- □ Poorly defined polarization increase with no resistivity signature.
- ▽ Low resistivity feature.

Scale 1:2400

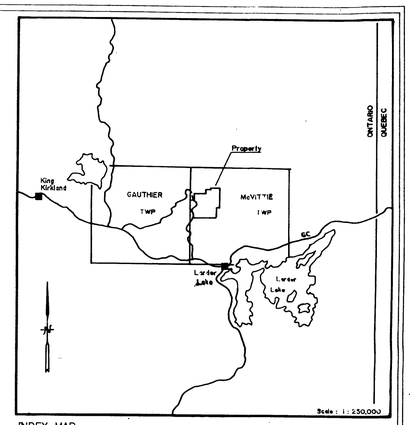
100 0 100 200 300 400 500
(feet)

ROYAL OAK MINES INC.

INDUCED POLARIZATION SURVEY
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

Date: 10/94
Interpretation: D. Londry

Timmins Geophysics Ltd.



INDEX MAP

BL 0+00
500 S
1000 S
1500 S
BL 2000 S
2500 S
3000 S
3500 S
4000 S
4500 S
5000 S
5500 S

L 5200 W
L 4800 W
L 4400 W
L 4000 W
L 3600 W
L 3200 W
L 2800 W
L 2400 W
L 2000 W
L 1600 W
L 1200 W
L 800 W
L 400 W

400 E
600 E
800 E
1000 E
1200 E
1400 E
1600 E

L 3800 N
L 3700 N
L 3600 N
L 3500 N
L 3400 N
L 3300 N
L 3200 N

Fork's Lake Road

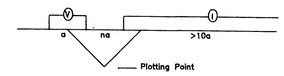
LEGEND

Receiver : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 KW
Array : Pole-Dipole
'A' Spacing : 25 metres
On-Off Time : 2 Seconds
Delay Time : 690 ms
Integration Time : 360 ms

Gridded by : Geosoft Bigrid
Cell Size : 12.5 m
Contour Interval : 1000 ohm-m

1/4
1/8 1/8
1/12 1/12 1/12
1/16 1/16 1/16 1/16

Filter



Strong increase in chargeability, decrease in resistivity

Strong increase in chargeability

Poorly defined increase in chargeability

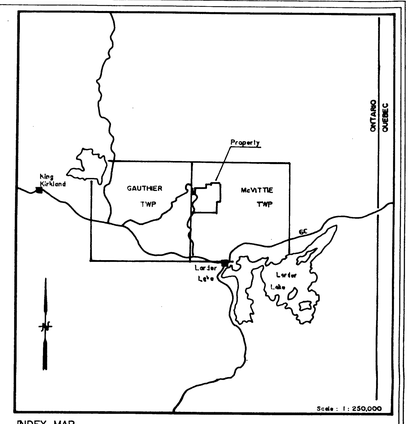
0 100 Ft 200 Ft 400 Ft 600 Ft 800 Ft
Scale: 1 in = 200 Ft
(1:2400)

ROYAL OAK MINES INC.

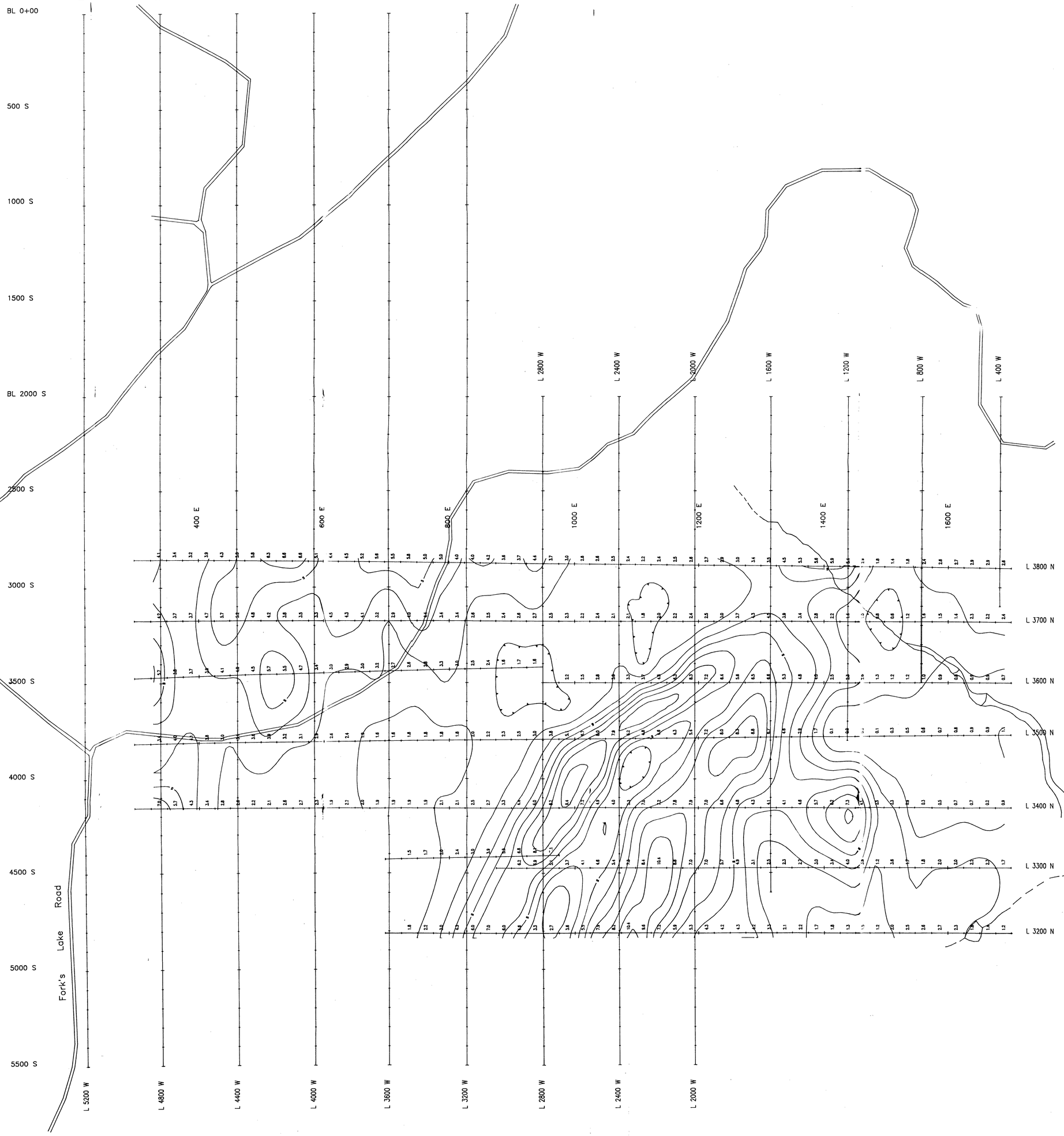
IP RESISTIVITY
(Filtered)
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

FILE : VIT.IP	DATE : November, 1994
GRID B	
WORK BY :	Timmins Geophysics Ltd.

32D04NE2079 ow34-037 MCVITTIE 580



INDEX MAP



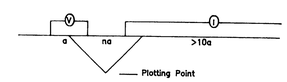
LEGEND

Receiver : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 KW
Array : Pole-Dipole
'A' Spacing : 25 metres
On-Off Time : 2 Seconds
Delay Time : 690 ms
Integration Time : 360 ms

Gridded by : Geosoft Bigrid
Cell Size : 12.5 m
Contour Interval : 1 ms

1/4
1/8 1/8
1/12 1/12 1/12
1/16 1/16 1/16 1/16

Filter



Plotting Point

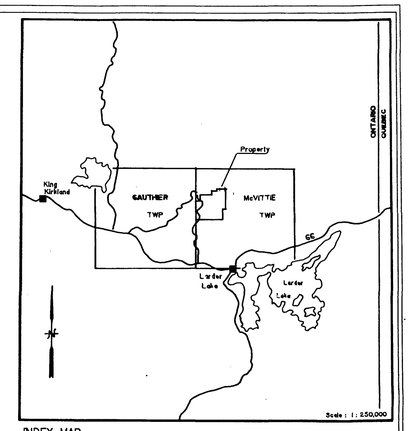
0 100 Ft 200 Ft 400 Ft 600 Ft 800 Ft
Scale: 1 In = 200 Ft
(1:2400)

ROYAL OAK MINES INC.

IP CHARGEABILITY
(Filtered)
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

FILE : VIT.IP	DATE : November, 1994
GRID B	
WORK BY : Timmins Geophysics Ltd.	

32D04NE2079 cm94-037 MCVITTIE 590



INDEX MAP



400 E 600 E 800 E 1000 E 1200 E 1400 E 1600 E

L 3800 N L 3700 N L 3600 N L 3500 N L 3400 N L 3300 N L 3200 N

LEGEND

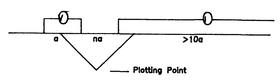
Receiver : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 KW
Array : Pole-Dipole
'A' Spacing : 25 metres
On-Off Time : 2 Seconds
Delay Time : 690 ms
Integration Time : 360 ms

Gridded by : Geosoft Bigrid
Cell Size : 12.5 m
Contour Interval : 1 ma

Strong increase in chargeability, decrease in resistivity

Strong increase in chargeability

Poorly defined increase in chargeability



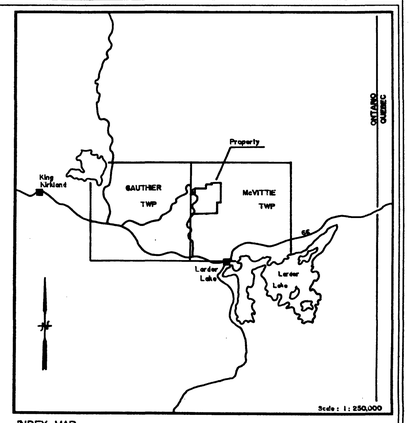
0 100 Ft 200 Ft 400 Ft 600 Ft 800 Ft
Scale: 1 in = 200 Ft
(1:2400)

ROYAL OAK MINES INC.

IP RESISTIVITY
(PSEUDO-SECTIONS)
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

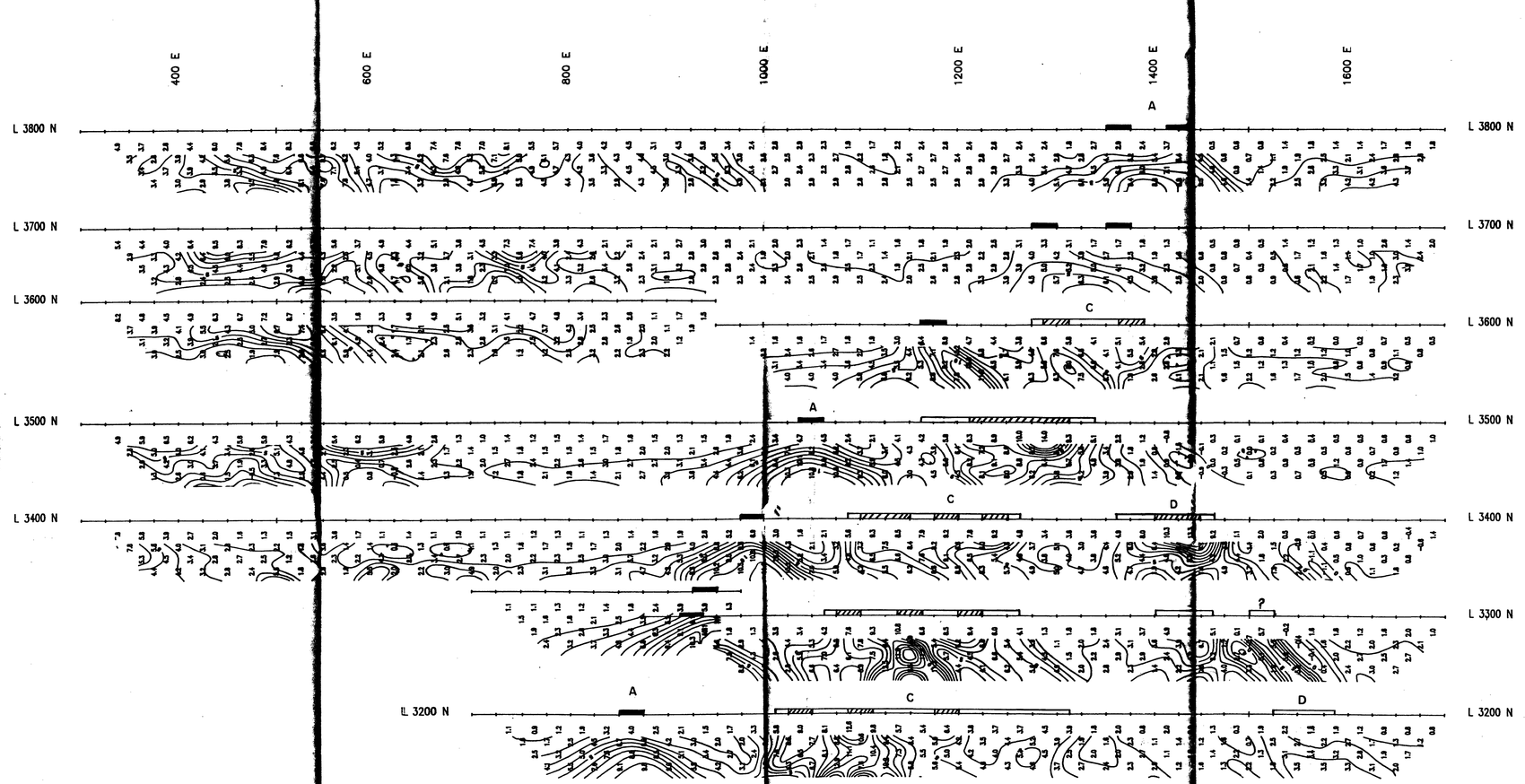
FILE : VIT.IP	DATE : November, 1994
GRID B	
WORK BY :	Timmins Geophysics Ltd.

32D04NE2079 om94-037 MCVITTIE 600



INDEX MAP





LEGEND

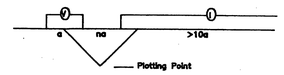
Receiver : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 KW
Array : Pole-Dipole
'A' Spacing : 25 metres
On-Off Time : 2 Seconds
Delay Time : 690 ms
Integration Time : 360 ms

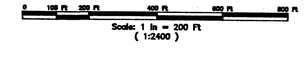
Gridded by : Geosoft Bigrid
Cell Size : 12.5 m
Contour Interval : 1 ms

Strong increase in chargeability, decrease in resistivity

Strong increase in chargeability

Poorly defined increase in chargeability



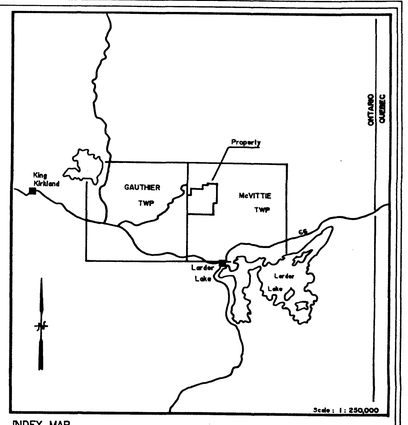


ROYAL OAK MINES INC.

IP CHARGEABILITY
(M7 PSEUDO-SECTIONS)
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

FILE : VIT.IP	DATE : November, 1994
GRID B	
WORK BY : Timmins Geophysics Ltd.	

32D04NE2079 os94-037 MCVITTIE 610



INDEX MAP

L 5200 W
L 4800 W
L 4400 W
L 4000 W
L 3600 W
L 3200 W
L 2800 W
L 2400 W
L 2000 W
L 1600 W
L 1200 W
L 800 W
L 400 W

BL 0+00
500 S
1000 S
1500 S
BL 2000 S
2500 S
3000 S
3500 S
4000 S
4500 S
5000 S
5500 S

L 3800 N
L 3700 N
L 3600 N
L 3500 N
L 3400 N
L 3300 N
L 3200 N

A
B
C
E
F

Fork's Lake Road

N

LEGEND

Receiver : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 KW
Array : Pole-Dipole
'A' Spacing : 150 metres
On-Off Time : 2 Seconds
Delay Time : 690 ms
Integration Time : 360 ms

Gridded by : Geosoft Bigrid
Cell Size : 75 feet
Contour Interval : 1000 ohm-m

1/4
1/8 1/8
1/12 1/12 1/12
1/16 1/16 1/16 1/16

Filter

a na >10a

Plotting Point

Strong increase in chargeability, decrease in resistivity

Strong increase in chargeability

Poorly defined increase in chargeability

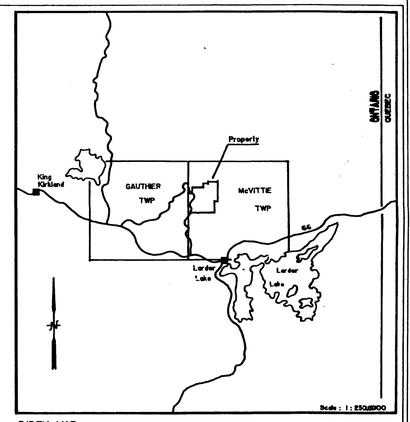
0 100 Ft 200 Ft 400 Ft 600 Ft 800 Ft
Scale: 1 in = 200 Ft
(1:2400)

ROYAL OAK MINES INC.

IP RESISTIVITY
(Filtered)
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

FILE : VIT.IP	DATE : November, 1994
GRID A	
WORK BY : Timmins Geophysics Ltd.	

32D04NE2079 om94-037 MCVITTIE 620



INDEX MAP

BL 0+00

500 S

1000 S

1500 S

BL 2000 S

2500 S

3000 S

3500 S

4000 S

4500 S

5000 S

5500 S

L 5200 W

L 4800 W

L 4400 W

L 4000 W

L 3600 W

L 3200 W

L 2800 W

L 2400 W

L 2000 W

L 1600 W

L 1200 W

L 800 W

L 400 W

L 3800 N

L 3700 N

L 3600 N

L 3500 N

L 3400 N

3300 N

L 3200 N

Fork's Lake Road

N

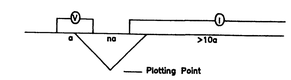
LEGEND

Receiver : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 KW
Array : Pole-Dipole
'A' Spacing : 150 metres
On-Off Time : 2 Seconds
Delay Time : 690 ms
Integration Time : 360 ms

Gridded by : Geosoft Bigrid
Cell Size : 75 feet
Contour Interval : 1 ms

L/4
1/8 1/8
1/12 1/12 1/12
1/16 1/16 1/16 1/16

Filter



0 100 Ft 200 Ft 400 Ft 600 Ft 800 Ft
Scale: 1 in = 200 Ft
(1:2400)

ROYAL OAK MINES INC.

IP CHARGEABILITY
(Filtered)
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

FILE : VIT.IP	DATE : November 1994
GRID A	
WORK BY : Timmins Geophysics Ltd.	

32D04NE2079 om94-037 MCVITTIE 630

BL 0+00

500 S

1000 S

1500 S

BL 2000 S

2500 S

3000 S

3500 S

4000 S

4500 S

5000 S

5500 S

L 5200 W

L 4800 W

L 4400 W

L 4000 W

L 3600 W

L 3200 W

L 2800 W

L 2400 W

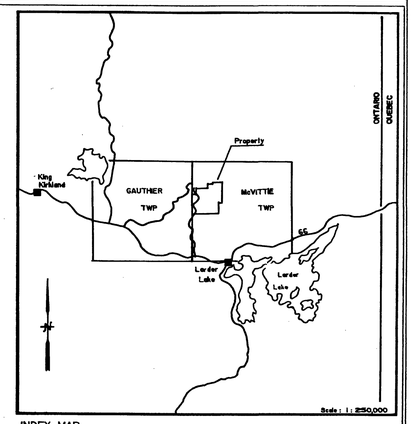
L 2000 W

L 1600 W

L 1200 W

L 800 W

L 400 W



INDEX MAP

LEGEND

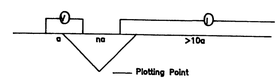
Receiver : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 KW
Array : Pole-Dipole
'A' Spacing : 150 feet
On-Off Time : 2 Seconds
Delay Time : 690 ms
Integration Time : 360 ms

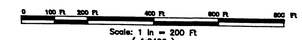
Gridded by : Geosoft Bigrid
Cell Size : 75 feet
Contour Interval : 1000 ohm-m

Strong increase in chargeability, decrease in resistivity

Strong increase in chargeability

Poorly defined increase in chargeability





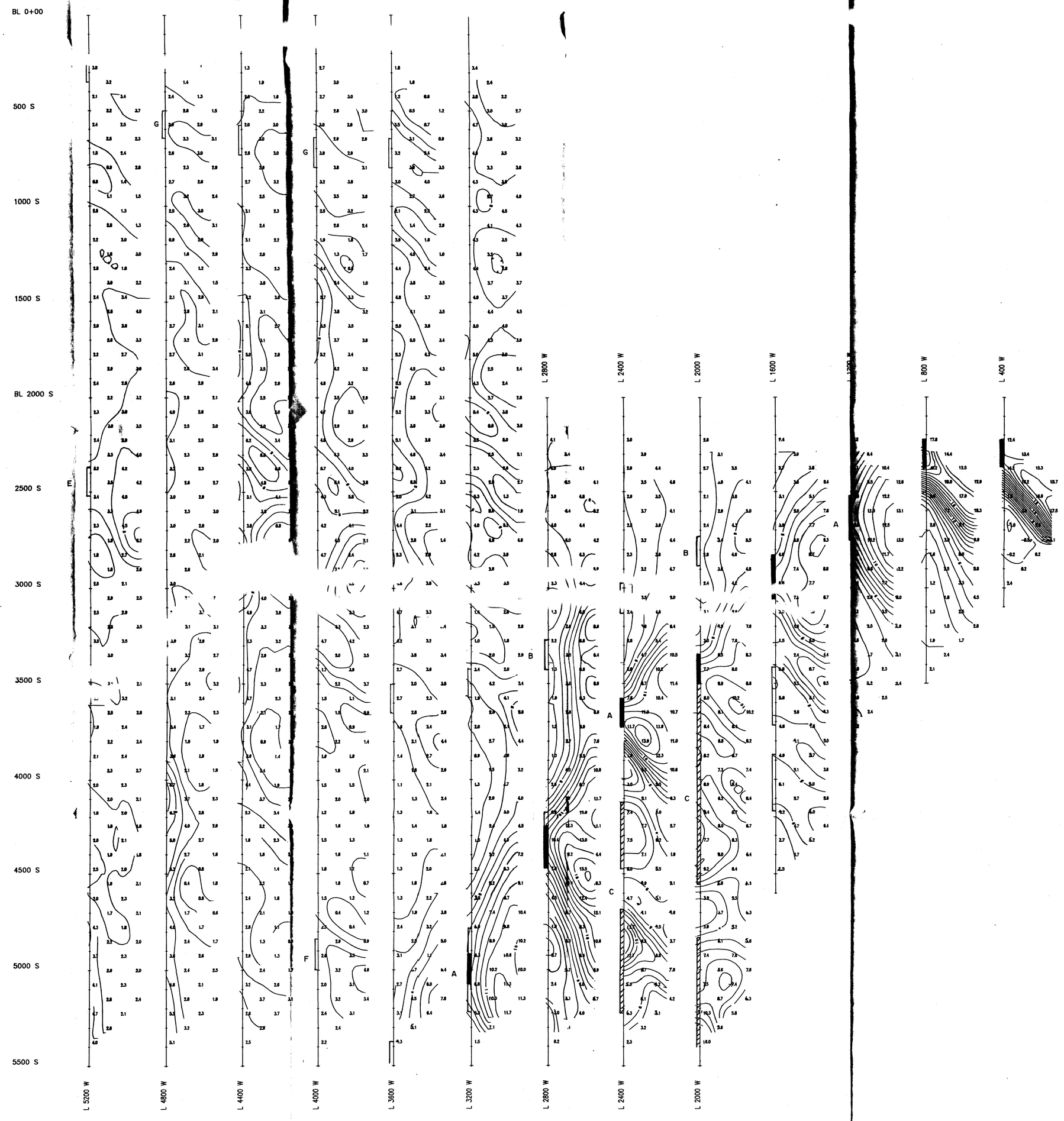
Scale: 1 In = 200 Ft
(1:2400)

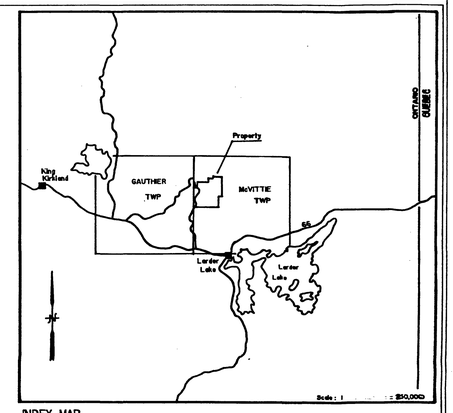
ROYAL OAK MINES INC.

IP RESISTIVITY
(PSEUDO-SECTIONS)
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

FILE : VIT.IP	DATE : November 1994
GRID A	
WORK BY : Timmins Geophysics Ltd.	

32D04NE2079 om94-037 MCVITTIE 640





INDEX MAP

LEGEND

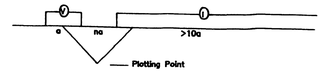
Receiver : Scintrex IPR-11
Type : Time Domain Spectral
Transmitter : Scintrex TSQ-3, 3 KW
Array : Pole-Dipole
'A Spacing : 150 feet
On-Off Time : 2 Seconds
Delay Time : 690 ms
Integration Time : 360 ms

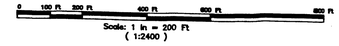
Gridded by : Geosoft Bigrid
Cell Size : 75 feet
Contour Interval : 1 ms

Strong increase in chargeability, decrease in resistivity

Strong increase in chargeability

Poorly defined increase in chargeability





Scale: 1 in = 200 Ft
(1:2400)

ROYAL OAK MINES INC.

IP CHARGEABILITY
(M7 PSEUDO-SECTIONS)
LAC McVITTIE PROPERTY
McVITTIE TOWNSHIP

FILE : VIT.IP	DATE : November 199
GRID A	
WORK BY : Timmins Geophysics Ltd.	

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