



32D04NW0766 2.14637 LABEL

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PAMOREX MINERALS INC.
TIMMINS DIVISION
REGIONAL EXPLORATION DEPT.
MURDOCH CREEK J.V. PROJECT (0519)
YEAR END TECHNICAL REPORT - 1990

2.14637.

RECEIVED

JUN 25 1992

MINING LANDS BRANCH

Submitted by:

**Paul Coad,
Senior Project Geologist,
Regional Exploration Dept.**

February, 1991



32D04NW0766 2.14637 LEBEL

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TABLE OF CONTENTS

	Page
Commodities	1
Deposit Type	1
Location	1
Property	1
Ownership	1
Mineral Inventory	1
Exploration Expenditures	1
Introduction	2
Work Done	2
Results	3
Future Work	3
References	4

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MINING LANDS BRANCH

APPENDICES

Appendix A	Regional Geology
Appendix B	"Geology and Prospecting Report" (August, 1990) on the Murdoch Creek Property by B. Leonard

(1)

NOTE: The writer was not directly involved with this project, but was asked to put together this year end technical report for 1990.

COMMODITIES

Au, Ag, Cu and Zn.

DEPOSIT TYPE

Epigenetic vein-type gold and volcanogenic massive sulphides.

LOCATION 32D/SW (48° 09'50N; 79°54'E)

The property is located approximately 8 km east-northeast of Kirkland Lake, Ontario, at the junction of Morissette, Lebel and Arnold Townships.

PROPERTY

The property contains 73 contiguous unpatented mining claims. A claim status report is summarized in Table 1.

OWNERSHIP

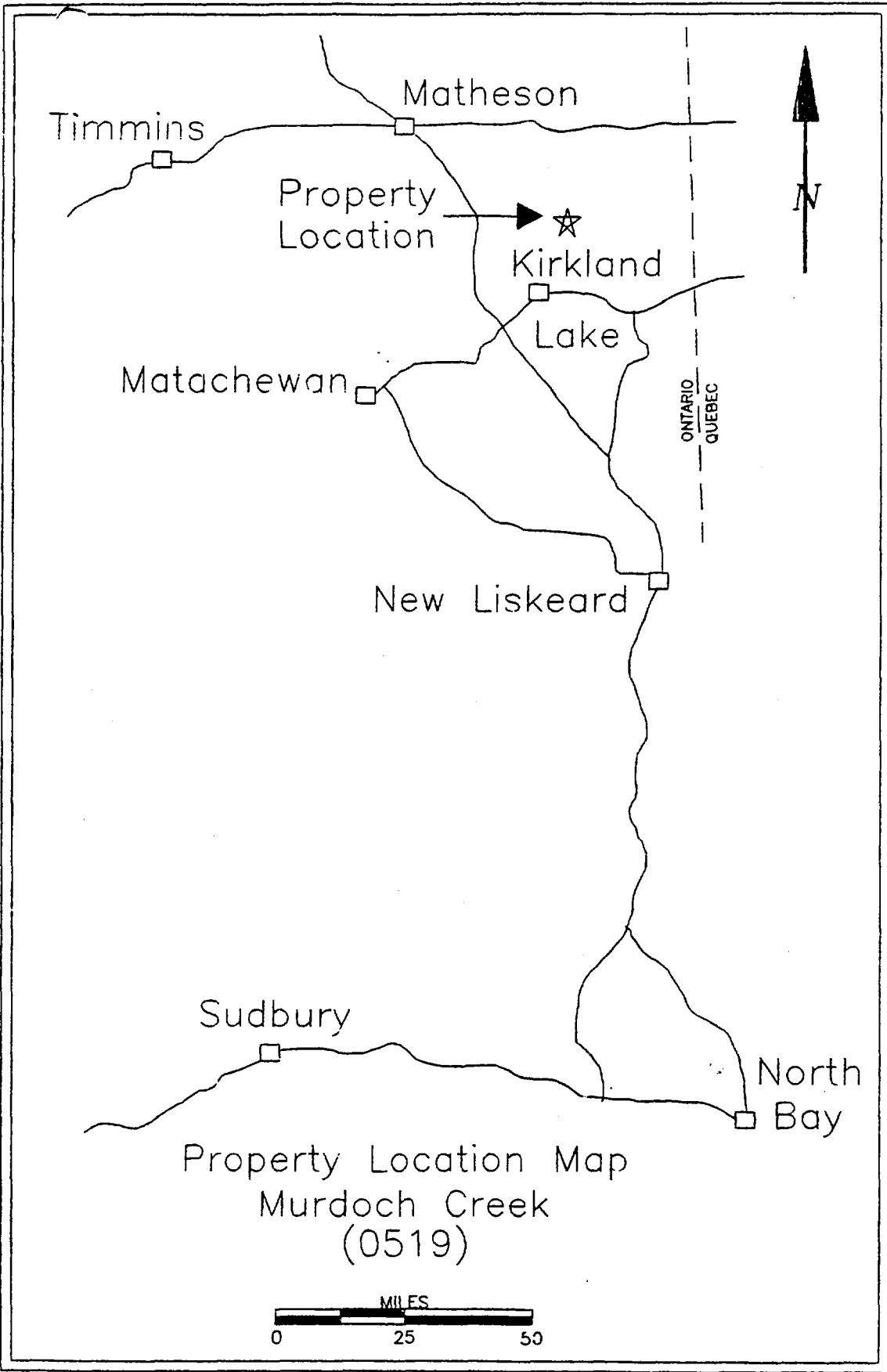
Queenston Mining Inc. has the option to earn a 100% interest in the property from Glenn Mullen by spending \$130,000 on payments and exploration expenditures over a five year period. Pamorex Minerals Inc. has the option of earning 51% and operatorship from Queenston. The agreement includes a 2% Net Smelter Royalty to Glenn Mullen.

MINERAL INVENTORY

None.

EXPLORATION EXPENDITURES

Expenditures for 1990 are tabulated in Table 2.



Property Location Map
Murdoch Creek
(0519)

TABLE 1

MURDOCH CREEK (0519)
CLAIM STATUS REPORT

CLAIM NO.	TOWNSHIP	STATUS	RECORDED DATE	DAYS WORK COMPLETED	DAYS WORK FILED	WORK REQUIRED	DUE DATE
L981926	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981927	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981928	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981929	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981930	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981931	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981932	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981933	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981934	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981935	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981936	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981937	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L981938	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L982318	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L982319	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L982320	LEBEL	STAKED	06/22/87	167	04/17/89-D.D.	33 (200 TOTAL)	06/22/92
L982321	LEBEL	STAKED	06/22/87	140	12/18/89-D.D.	60 (200 TOTAL)	06/22/92
L982322	LEBEL	STAKED	06/22/87	140	04/25/89-SEC 77	60 (200 TOTAL)	06/22/92
L982323	LEBEL	STAKED	06/22/87	200	04/17/89-D.D.	LEASE EXTENS.	06/22/93
L982324	LEBEL	STAKED	06/22/87	140	12/18/89-D.D.	60 (200 TOTAL)	06/22/92
L982325	LEBEL	STAKED	06/22/87	101.28	04/25/89-SEC 77	38.72 (140 TOTAL)	06/22/91
L982326	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982327	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982328	LEBEL	STAKED	06/22/87	100	03/20/89-GEOL.	40 (140 TOTAL)	06/22/91
L982329	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982330	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982331	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982332	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982333	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982334	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982335	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982336	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L982337	LEBEL	STAKED	06/22/87	100	12/18/89-D.D.	40 (140 TOTAL)	06/22/91
L1111536	LEBEL	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111537	LEBEL	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L982338	MORRISETTE	STAKED	06/22/87	100	03/20/89-GEOL.	40 (140 TOTAL)	06/22/91
L982339	MORRISETTE	STAKED	06/22/87	100	03/20/89-GEOL.	40 (140 TOTAL)	06/22/91
L982340	MORRISETTE	STAKED	06/22/87	100	03/20/89-GEOL.	40 (140 TOTAL)	06/22/91
L982341	MORRISETTE	STAKED	06/22/87	100	03/20/89-GEOL.	40 (140 TOTAL)	06/22/91
L982342	MORRISETTE	STAKED	06/22/87	100	03/20/89-GEOL.	40 (140 TOTAL)	06/22/91
L982346	MORRISETTE	STAKED	06/22/87	100	03/20/89-GEOL.	40 (140 TOTAL)	06/22/91
L1111524	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111525	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111913	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111914	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111915	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111916	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111917	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111918	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111919	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111924	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111925	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111926	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111927	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111928	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111929	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111930	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111931	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111932	MORRISETTE	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1137044	MORRISETTE	STAKED	12/14/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	12/24/92
L1111920	ARNOLD	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111921	ARNOLD	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111922	ARNOLD	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92
L1111923	ARNOLD	STAKED	08/10/89	61	01/04/90-GEOPH.	39 (100 TOTAL)	08/10/92

PAMOREX MINERALS INC.
STATEMENT OF 1990 APPROVED EXPENDITURES
BY PROJECT AND PROPERTY

PROJECT NAME: VICTORIA LAKE PAMOREX % INTEREST (VESTED): 0%
 J.V.
 PROPERTY NAME: MURDOCH CREEK PAMOREX % INTEREST (EARNING): 51%
 REFERENCE NO.: 0519 % EXPENDITURES APPLIED: 100%

ACCT. NO.	DESCRIPTION OF ACTIVITY		DEC. 31 YTD TOTAL
	MAJOR	MINOR	
5513	MANAGEMENT	FEES/LICENCES/TAXES	34.56
5535	GEOLOGY	SALARY/LABOUR	8,630.01
5536		TRAVEL/EXPENSES	392.28
5537		FIELD SUPPLIES	58.48
5540		FUEL	500.00
5541		ASSAYS	505.10
5543	TRENCHING	SALARY/LABOUR	2,366.82
5545		FIELD SUPPLIES	1,880.71
5546		FIELD EQUIPMENT	407.43
5548		ASSAYS	660.80
5555	GEOCHEM	WHOLEROCK	545.00
5601	DRILLING	ASSAYS	20.00
TOTAL DIRECT EXPENDITURES			16,001.19 ✓

GENERAL OVERHEAD & ADMINISTRATIVE SERVICES FOR:

ALL DIRECT EXPENDITURES (10% OF \$16,001.19)	\$ 1,600.12
TOTAL 1990 APPROVED EXPENDITURES	\$17,601.31
OPTION PAYMENTS	\$15,000.00 ✓
TOTAL 1990 APPROVED EXPENDITURES & OPTION PAYMENTS	\$32,601.31

APPROVED BY: *P. G. Rock-Green*
 NAME: P. G. ROCK-GREEN
 TITLE: CONTROLLER

APPROVED BY: *Ross F. Burns*
 NAME: R. F. BURNS
 TITLE: VICE PRESIDENT

INTRODUCTION

The earliest recorded holder of the property was Kenacott Gold Mines in 1936.

In 1947, Ronal Red Lake Mines Limited held the grounds, followed by Toranado Mines Limited in 1972.

Rosario Resources Canada Limited performed exploration on the property from 1979-1981.

Queenston Gold Mines held a portion of the claim group in 1980.

Glenn Mullen staked the property in 1988 and optioned it to Exploration Brex for a short period.

In 1990, the property was optioned to Queenston Mining Inc. who joint ventured it to Pamorex Minerals Inc.

A brief description of the **regional geological setting** in which the Murdoch Creek property is located is included in the appendix to this report. The actual property is located within the Gauthier Group, which has been correlated with the Skead pyroclastics, which mark the uppermost volcanic group in the Lower Supergroup (Jolly, 1978).

WORK DONE

In 1936, Kenacott Kirkland Gold Mines performed 3,000 feet of diamond drilling and 25 feet of shaft sinking.

In 1947, Ronal Red Lake Mines Limited conducted mapping, stripping, trenching and diamond drilling (1,133 feet in 8 holes).

Toranado Mines Ltd. conducted magnetometer and HLEM surveys in 1972.

From 1979-1981, Rosario Resources performed VLF-EM and magnetometer surveys with geological mapping, sampling and diamond drilling (2,409 feet in 7 holes).

In 1980, Queenston Gold Mines drilled 1,297 feet in 2 holes.

In 1988, Exploration Brex conducted geological mapping, magnetic and I.P. surveys, and one drill hole of 452 feet.

(3)

In 1989, Glenn Mullen had airborne VLF-EM and magnetometer surveys done. This was followed by one drill hole of 460 feet.

In the summer of 1990, Pamorex Minerals Inc. performed mechanical stripping and detailed mapping/sampling of the main showings that include the Ronal Red Lake Showing and the Murdoch Creek Fault Zone Showing.

RESULTS

Results historically were poor, however, Pamorex sampling returned 0.07 o.p.t. Au over 3.4 feet, over a total length of 35.0 feet at the Ronal Red Lake Showing. A more detailed summary of the 1990 work program is appended in the "Geology and Prospecting Report" (August, 1990) on the Murdoch Creek Property by B. Leonard.

FUTURE WORK

A detailed work proposal and budget for the Murdoch Creek property have not been finalized, however, a tentative plan is to complete additional linecutting, mapping and stripping in the vicinity of the Ronal Red Lake and Murdoch Creek Fault Zone showings.

REFERENCES

Jensen, L.S. and Langford, F.F. (1985)

**Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area,
Ontario, O.G.S. M.P. 123**

Jolly, W.T. (1978)

Metamorphic History of the Archean Abitibi Belt, G.S.C. Paper No. 78-10

REGIONAL GEOLOGY

The stratigraphy in the eastern portion of the Abitibi Belt has been subdivided into two supergroups by Jensen and Langford (1985) - see Figure 1 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 (Figure 1).

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.

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.

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

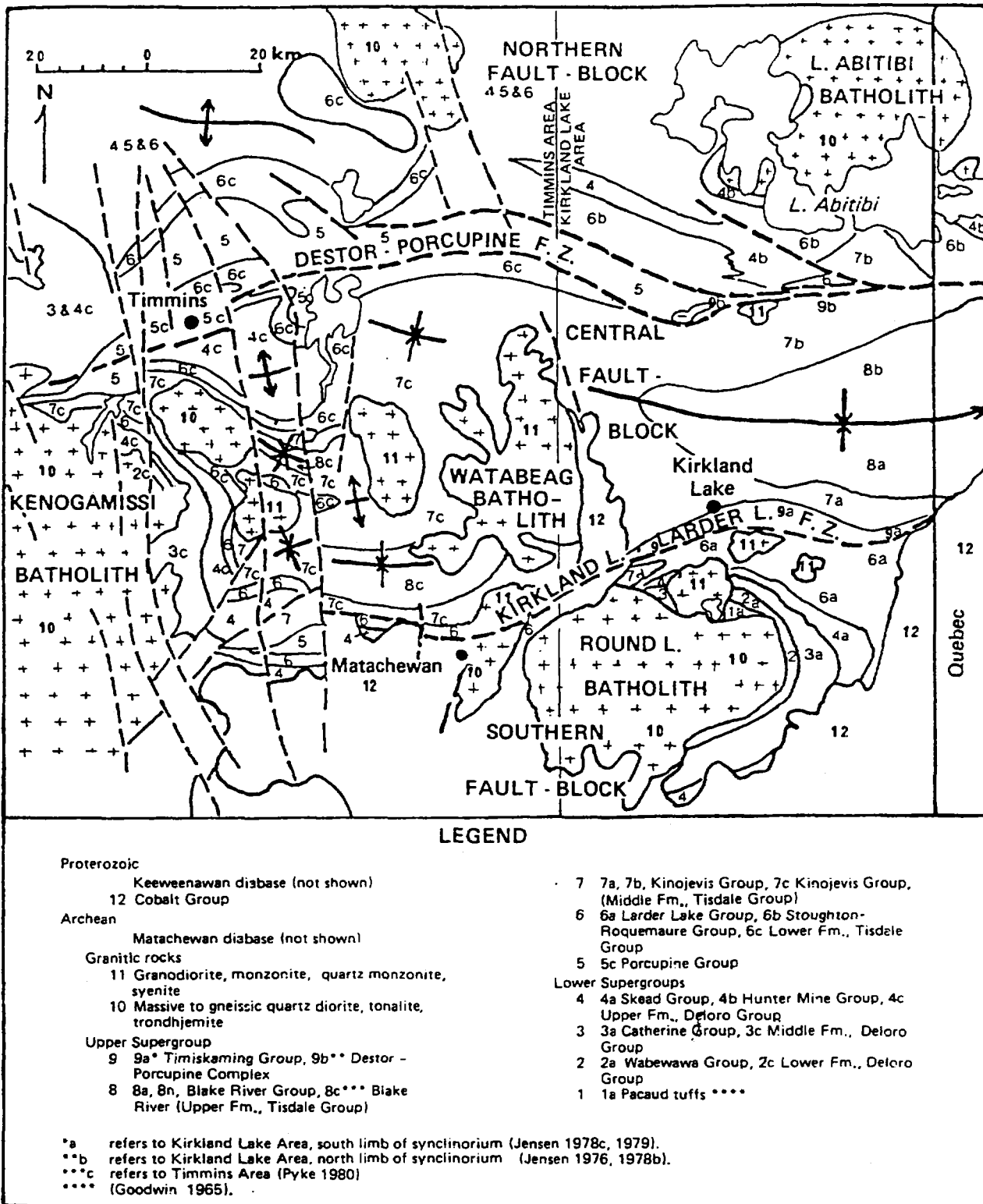


Figure 1. Geological map of the Timmins - Kirkland Lake area.

Approximately 200 feet northeast of the Ronal showing, the Murdoch Creek Fault zone was uncovered by mechanical stripping. Massive pyrite blocks and fragments were found in a 10 to 15 foot thick pyritic section of the fault zone at the western end of the exposure. The massive pyrite is not anomalous in gold or base metals, but the pyritic section of the fault is weakly anomalous in gold.

Northwest of the Ronal showing, a partially infilled shaft was found at the contact between a quartz porphyry intrusive and pillowed mafic volcanics.

The area around the a Ronal Red Lake showing should be mapper in detail, followed by additional mechanical stripping of the Murdoch Creek Fault, the Ronald Red Lake showing and the partially infilled shaft area. Projected costs are estimated at \$10,000.

1956: The Ontario Department of Mines published a coloured map (map 53a) at a scale of 1 inch to 100 feet and a geological report (Vol. LIII part 2, 1944) on Lebel Township by A. Maclean.

1964: The Ontario Department of Mines published a coloured map (map 2061) at a scale of 1 inch to 1/2 mile and a geological report (GR 29) on Arnold and Katrine Townships by W. A. Hogg.

1970: The Ontario Department of Mines published a coloured map (map 2193) at a scale of 1 inch to 1/2 mile and a geological report (GR 84) on Bernhardt and Morrisette Townships by R.J. Rupert and H. L. Lovell.

1972: Toronado Mines Limited

Toronado conducted a fluxgate magnetometer and horizontal loop EM survey in Morrisette and Lebel Townships at the west end of the present claim group. Results were negative.

1979: The area was flown by Questor Surveys Limited at the request of the Ontario

Geological Survey as part of the regional KLIP program at a scale of 1 to 20,000. Maps are available at the mining recorders office in Kirkland Lake.

1979-1981: Rosario Resources Canada Limited

Rosario conducted a large scale reconnaissance program including ground VLF-EM and magnetics, geological mapping, lithogeochemical sampling and diamond drilling over a large block of claims in Morrisette, Arnold and Lebel Townships. 2409 feet of diamond drilling was performed in 7 holes, testing geophysical conductors with negative results. The diamond drill core is available for viewing in the Ministry of Northern Development and Mine's core storage facilities in Swastika, Ontario.

1980: Queenston Gold Mines Limited

Queenston drilled 1297 feet in 2 holes testing airborne EM conductors, just off the east side of the island separating McTavish and Victoria Lakes. Results were negative; no core from this drilling is available.

1988 to present:

The present claim group was staked by Mr. Glenn Mullen who subsequently optioned the block to Exploration Brex Inc. of Val d'Or, P. Q.. Brex concluded geological mapping, magnetic and IP geophysical surveys over the property, followed by one diamond drill hole on the property of 452 feet. This hole tested an IP conductor and came up with negative results. The conductor proved to be graphitic

Property

The property consists of 73 contiguous unpatented mining claims in Morrisette, Arnold and Lebel Townships. These claims are subject to an option agreement with Mr. Glenn Mullen where Pamorex can earn 100% interest in the property by payments of \$5000.00 upon signing the agreement; \$10,000.00 on or before 6 months from the date of signing; \$15,000.00 on or before the first anniversary; \$25,000.00 on or before the second anniversary. In addition, a minimum \$75,000.00 expenditure on the property must be made following the second anniversary by spend \$25,000.00 on or before the third, fourth and fifth anniversaries respectively. No over-expenditure can be carried forward to the subsequent year or years.

After the option has been exercised, the vendor (Mr. Mullen) is entitled to a 2% Net Smelter Royalty. If this option agreement is terminated, the property is to be returned good standings for a minimum period of 90 days.

This option agreement is also included in a joint venture agreement between Pamorex Minerals Inc. and Queenston Mining Inc. where Pamorex shall have 51% interest and Queenston shall have 49% interest. Payments made by Pamorex may be charged against the Upper Beaver Joint Venture Agreement. The agreement with Mr. Mullen was signed on March 9, 1990. Claim numbers are listed in Appendix #5.

Exploration History

1936: Kenakott Kirkland Gold Mines Limited

North of McTavish Lake in the eastern parts of Lebel Township, a considerably amount of surface exploration 3,000 feet of diamond drilling and the excavation of a 25 foot deep shaft was performed by Kenakott Kirkland Gold Mines Limited. This exploration work is reported in a note by W. S. Savage (1951) and is described as being along a contact of Keewatin pyroclastics, diorite intrusives and Timiskaming sediments.

1947: Ronal Red Lake Mines Limited

Geological mapping, stripping, trenching and diamond drilling (8 holes totalling 1133 feet) was performed on a northwest trending structure initially uncovered by G. Tough in southeast Morrisette Township. The best reported value was 2.05 oz Au/ton from a grab sample, however no sample locations were documented. The follow up drilling was disappointing. The best result was 0.01 oz Au/ton across 15 feet in sludge. A shaft is located northwest of this showing but no records are available.

M. G. Clarke (date unknown) presented a geological map covering an area 1/2 to 3/4 mile radius from the 1 mile post between Morrisette and Arnold Townships.

Introduction

The Murdoch Creek property, located at the junction of Morrisette, Lebel and Gauthier Townships, Larder Lake Mining Division is controlled and operated 51% by Pamorex Minerals Inc. This property, along with the contiguous Morrisette Creek and Consolidated Thompson-Lundmark West properties form a claim package that is currently under a joint venture agreement with Queenston Mining Inc. This property was acquired to cover a portion of a northwest trending airborne magnetic feature thought to be the contact between the Gauthier Group (calc alkaline felsic pyroclastic rocks) and Kinojevis Group (tholeiitic mafic volcanic rocks) /Timiskaming Group (alkalic felsic volcanic rocks and sediments). This contact is thought to be a favourable target for either an Upper Beaver type Cu-Au deposit or a volcanogenic massive sulphide deposit. Another favourable exploration target is the northeast trending Murdoch Creek-Kennedy Lake fault zone. This is a splay of the main Kirkland Lake fault and trends through the western part of the property. Several gold showings are located along or adjacent to this structure, but only one, the Ronal Red Lake showing, is covered by the present claim group. This structure has an excellent potential for hosting several gold deposits similar to the Kirkland Lake-Larder Lake area.

The report presents a summary of previous exploration work and results from prospecting, mechanical stripping and sampling on the property. Geological and compilation date are presented on a map at a scale of 1:10,000 included with this report.

Location & Access

The Murdoch Creek property is located at the junction of Morrisette, Lebel and Arnold Townships, Larder Lake Mining Division, Ontario. The west part of the group claim may be accessed by a gravel road running north of the village of King Kirkland, 8 km east of Kirkland Lake. The claims may also be accessed by boat from McTavish Lake at the end of the Bidgood Mine road, approximately 1 km east of King Kirkland.

Topography

Approximately 1/2 of the claim block is covered by McTavish and Victoria Lakes. Of the remaining 2/3, at least half is covered by spruce and alder swamps. The non swamp areas are generally flat to gently rolling hills with local relief of 30 to 40 feet above swamp level.

Stands of spruce, birch and poplar cover most of the higher ground with minor outcrop exposure. Excellent outcrop exposed is present in the southwest end of the property occupied by a large hill.

LIST OF FIGURES

		Page
Figure 1	Location	6
Figure 2	Regional Geology	15
Figure 3	Property Geology	18
Figure 4	Jensen Cation Plot	28
Figure 5	Jensen Cation Plot Beaverhouse Lake Project, Gauthier Group	29
Figure 6	Jensen Cation Plot Beaverhouse Lake Project, Kinojevis Group	30

APPENDICES

Appendix #1	Photographs
Appendix #2	Assay Certificates
Appendix #3	Sample descriptions and location sketches
Appendix #4	Detailed maps of mechanically stripped areas
Appendix #5	List of Claims

MAPS

1:10000	Geological Compilation
1:10000	Assay plan to accompany geological compilation
1:10000	Geophysical compilation to accompany geological compilation



32D04NW0766 2.14637 LEBEL

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PAMOREX MINERALS INC.
MURDOCH CREEK PROPERTY
MORRISETTE, LEBEL & GAUTHIER TOWNSHIP
LARDER LAKE MINING DIVISION
32-D-4
GEOLOGY AND PROSPECTING REPORT
AUGUST 1990

Submitted by:

Qual
2.13841

Bradley Leonard

Bradley C. Leonard,
Geologist,
Regional Exploration Dept.,
Pamorex Minerals Inc.



32D04NW0766 2.14637 LABEL

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TABLE OF CONTENTS

	Page
Introduction	4
Location & Access	5
Topography	5
Property Description	7
Exploration History	10
Regional Geology	14
Property Geology	17
Discussion of Results	23
Conclusions and Recommendations	31
Proposed Budget	34
References	35
Certificate of Qualification	36

SUMMARY

The Murdoch Creek property, located at the junction of Morrisette, Lebel and Gauthier Townships is controlled and operated by Pamorex Minerals Inc. The 73 claim package was acquired to cover a portion of a northwest trending airborne magnetic feature thought to be the contact between the Gauthier Group and Kinojevis Group of volcanics in the search for an Upper Beaver Cu-Au type deposit or a volcanogenic massive sulphide deposit.

The Kirkland Lake area is underlain by an east plunging synclinorium comprised of two complete and one incomplete cycles of volcanism. This synclinorium is cut by two major fault systems; the Destor-Porcupine and the Kirkland Lake-Larder Lake Breaks. The latter is host for the major gold deposits in the Kirkland Lake area.

The property is underlain by Keewatin volcanics (subdivided into the Kinojevis Group and Gauthier Group). Timiskaming trachytes and Timiskaming metasediments. Structurally, three trends are present; a northeast trend, represented by the Murdoch Creek Fault zone; a north northeast trend, represented by the Long Lake Fault zone; and a northwest trend, represented by the structure at the Ronal Red Lake showing. The northwest trend appears to be the favourable direction for gold mineralization.

The present survey consisted of reviewing all government assessment data, prospecting and mechanical stripping.

Prospecting, lithochemical sampling and airborne geophysical interpretation indicate the presence of a package of rocks under most of Victoria Lake similar to the Gauthier Group of pyroclastic rocks found further east at the Upper Beaver Mine. Due to lack of exposure and geophysical response of the proposed contact area, this portion of the Gauthier Group has a low potential for massive sulphide or Upper Beaver type deposits.

A cluster of airborne EM anomalies on the west part of the claim group has been adequately drill tested by Rosario Resources and Brex Exploration and found to be graphitic horizons in graphitic mafic volcanic breccia host rocks. No further work in this area is required.

Mechanical stripping and detailed mapping of the Ronal Red Lake showing uncovered 0.18 oz Au/ton over 3 feet from a northwest trending shear zone. This same shear averages 0.07 oz Au/ton across 3 to 4 feet for approximately 35 feet before it is cut off northward by a north-northeast fault zone and is covered southward by overburden.

shales. Core is presently stored in Val D'or and is available for viewing (contact Mr. Mullen). The property was then returned to Mr. Mullen who conducted airborne magnetics and VLF-EM over the property followed by a diamond drill hole totalling 460 feet, no samples were taken. The core is available for viewing at the MNM'S core storage facilities in Swastika, Ontario. In March, 1990 the property was optioned by Queenston Gold Mines Inc., who subsequently joint ventured the property with Pamorex Minerals Inc.

Regional Geology

The property lies within part of the Abitibi Orogen consisting of metamorphosed Early Precambrian volcanic, sedimentary and intrusive rocks in an east-plunging synclinorium between the Abitibi and Round Lake Batholiths. Two major east-west trending fault zones cut the northern and southern units of the synclinorium; the Destor-Porcupine Fault Zone and the Kirkland Lake-Larder Lake Fault Zone respectively. The gold deposits of the Kirkland Lake area are related to the latter structure. Regional metamorphism is generally sub-green schist facies.

According to Riddler, 1970, the belt is comprised of two complete and one incomplete cycles of volcanic and plutonic rocks. The oldest rocks (Lower Supergroup) occur near the outer margins. To the southeast of Kirkland Lake these rocks consists of komatiitic, tholeiitic and calc-alkaline volcanics of the Wabawewa, Catherine and Skead Groups respectively, with a basal unit of Pacaud tuffs. The younger, Upper Supergroup volcanic cycle is comprised of komatiitic lavas of the Larder Lake Group, tholeiitic rocks of the Kinojevis Group and calc-alkaline rocks of the Blake River Group. A northwest-southeast trending wedge of rhyolitic pyroclastic rocks is located east of Victoria Lake, and is thought to be a rhyolitic portion of the Blake River Group called the Gauthier Group. These are unconformably overlain by the important alkaline igneous regional geology rocks of the Timiskaming Group. The Blake River, Kinojevis and Timiskaming Groups are separated by sedimentary rocks comprising chert-carbonate-iron formation, (the Boston iron formation), conglomerate, sandstone and argillites. Trachytic and phonolitic compositions predominate the Timiskaming volcanics which cap the second volcanic sequence. A possible third, incomplete volcanic package unconformably overlies the Timiskaming Group, known as the Highway 11 basalts. These volcanics are a relatively thin sequence of tholeiitic pillow lavas and associated gabbroic phases, localized southwest of Kirkland Lake. Algonian intrusive rocks, including dykes and stocks of syenite, monzonite and quartz monzonite cut the volcanic-sedimentary pile. The sequence is south facing, south dipping and is cut by numerous vertical strike faults and crossfaults.

The following represents a list of the most significant producers in the Kirkland Lake camp:

(5)

PAST PRODUCERS	TONS	GRADE (Au)
Toburn	1,186,316	0.48 oz/ton
Sylvanite	5,049,446	0.33 oz/ton
Wright Hargreaves	9,934,427	0.48 oz/ton
Teck Hughes	9,565,302	0.39 oz/ton
Kirkland Lake Gold	3,141,651	0.37 oz/ton
Upper Canada	4,735,532	0.32 oz/ton
Chesterville	3,260,439	0.12 oz/ton
Omega	1,615,081	0.14 oz/ton
Bidgood	586,367	0.29 oz/ton
Upper Beaver	558,000	0.23 oz/ton & 1.01% Cu
Lake Shore	16,630,000	0.51 oz/ton
CURRENT PRODUCER		
Macassa	6,465,635	0.44 oz/ton

Property Geology

The claim group is underlain by Keewatin volcanic rocks in the north and west part of the property and by Timiskaming volcanics and sediments to the south and east. The contact between these units is interpreted to trend northwest-southwest. Numerous bodies of mafic and felsic intrusives occur throughout the property. There are several major structures cutting the Timiskaming and Keewatin sequences, namely the northeast trending Murdoch Creek-Kennedy Lake fault zone, which is northeast extension of the Kirkland Lake Main Break, plus the north northeast trending Long Lake fault zone.

Keewatin Volcanics

The Keewatin volcanics are present in most areas of the property. These volcanics may be divided into two groups based on textural appearances, the Kinojevis and Gauthier Groups.

The Gauthier Group of rocks are strongly foliated sericite schists with abundant carbonate alteration covering the south eastern portion of the volcanics on the property. This unit weathers light green to buff colour and is exposed on the south shore of McTavish Lake, the island between McTavish and Victoria Lakes and on the point along the north shore of Victoria at the Morrisette, Arnold Township line (previously termed the Misema Lake-Mist Lake fault zone on OGS map 2193. Geochemistry reveals this unit to be chemically similar to the Gauthier Group of rocks found at the Upper Beaver Mine. The Kinojevis Group of volcanic rocks makes up the majority of the exposed Keewatin volcanics. These rocks are typically Fe-tholeiitic pillowed mafic volcanic flows brecciated pillowed flows and hyaloclastites. They are usually dark green massive with minor carbonate and trace to 3% pyrite, usually associated in pillow rims. Pillow top determinations made from prospecting the property appear to be northwest. As these volcanics become more altered in the vicinity of major structures such as the Murdoch Creek fault, the rock becomes strongly foliated and brecciated with the addition of graphitic material along pillow rims and in the breccia matrix.

Timiskaming Volcanics

The Timiskaming volcanics are comprised of generally east-west trending, alkaline, massive and porphyritic trachytic flows. These rocks are generally massive, fine grained, hard, dark red to purple in colour with minor dark green augite crystals, minor white to pink feldspar laths, up to 5% disseminated hematite and nil to 2% disseminated pyrite. These rocks are usually weakly to moderately carbonated weather white to light pink and show the typical trachytic texture of bladed feldspar crystals. The porphyritic phase of the trachytes are anhedral rounded leucite crystals that are white to light pink in colour.

Timiskaming Metasediments

The Timiskaming metasediments are composed of interbedded greywackes, argillites and conglomerates. Bedding is generally 125 degrees, dipping steeply northeast. The interbedded greywackes and argillites are often moderately foliated and have minor to moderate carbonate alteration and weather buff to rusty brown depending on the carbonate content. The argillites show strong sericite alterations in the higher schistose areas. The conglomerates often have red jasper pebbles. There is generally trace to 1% finely disseminated pyrite and chalcopyrite.

Felsic Intrusives

The quartz and quartz feldspar porphyry intrusives are found in the vicinity of the Ronal Red Lake showings north of Victoria Lake and in the western part of the property close to diamond drilling by Rosario Resources and Brex Exploration. These intrusives are commonly light beige-grey in colour, sericitic and silicious with 10 to 15% anhedral to subhedral light translucent grey quartz phenocrysts up to 5/8 inches in size. There is minor carbonate and generally 1 to 2% fine grained disseminated pyrite. Locally there can be up to 20% subhedral white feldspar phenocrysts up to 3/8 inches long.

Mafic Intrusives

Several gabbroic intrusives are found on the claim block; one on the west boundary, north of the proposed Keewatin-Timiskaming contact, one east of the Long Lake fault zone on a peninsula of land on the west side of Victoria Lake and one on the north side of the Misema Lake-Mist Lake fault. These rocks are dark green coarse grained, moderately to strongly magnetic, with 10-20% disseminated magnetite and trace to 1% fine pyrite. Most of the gabbroic body north of the Misema Lake-Mist Lake fault is lighter green with white to light green feldspar and has no magnetite. These bodies are marked by airborne magnetic highs on the OGS KLIP airborne maps.

Structure

Several major fault zones are present superimposed on a subsidiary fold of the main Kirkland Lake-Larder synclinorium. This fold, known as the Spectacle Lake Anticline, trends northwest from the Upper Beaver mine in Gauthier and McVittie Townships to the east shore of Victoria Lake. This structure is also interpreted to be occupied, in part, by the Gauthier Group of pyroclastic rocks (Roberts and Morris 1982).

Three major structural trends cover the rocks of the property. The east-northeast system has the best development and is represented by the Murdoch Creek-Kennedy Lake fault zone. The Murdoch Creek fault zone is a splay from the main Kirkland Lake Break and generally trends 070 degrees.

The second fault system trends north-northeast (approximately 030 degrees) and is represented by the Long Lake fault system. It is uncertain whether the Long Lake fault merges with or is offset by the Murdoch Creek fault.

The third fault system is northwest southeast trending (approximately 120 degrees) and appears the favourable host for gold mineralization. Work done by Ronal Red Lake in the mid 1930's found gold values in association with northwest trending shear zones. There appears to be another structural direction of north-northwest (approximately 345-165 degrees), but it is not as evident as the other structural trends.

Mineralization

The only gold showing on the property, the Ronal Red Lake showing, reported gold values of up to 2 oz. Au/ton in a northwest trending shear zone. There is generally trace to 2% fine pyrite and a narrow 2" to 4" boudinaged quartz vein in a fissile sericite-chlorite-carbonate host. Surface rocks are extremely broken and schistose. No other gold or base metal showings have been reported on the property.

Discussion of Results

Prospecting the property was performed in June and July. Numerous outcrop areas, trench areas and mineralized areas were inspected using assessment data submitted by Rosario Resources and Brex Explorations. Diamond drill core submitted by Rosario Resources to the MNDM core library was reviewed and sampled. Two days of mechanical stripping was performed in early August on the Ronal Red Lake showing and an area approximately 200 feet northeast of the Ronal showing (the Murdoch Creek stripped area). All trench areas examined were overgrown, and sampling was done by scrutinizing the adjacent rock dumps for the most promising samples. A total of 95 samples were collected from prospecting drill core sampling plus detailed sampling of the stripped areas and were analyzed for gold, base metals and major elements oxides. Most of the samples collected were analyzed for gold, but only selected samples were analyzed for base metals and major oxide lithogeochemistry. Lithogeochemical results are plotted on the accompanying Jensen diagram for comparison to lithogeochemical results from the Upper Beaver project.

Anomalous gold values in the 200 to 600 ppb range were found in a northwest trending shear during prospecting of the Ronal Red Lake showing area. Northwest of the showing, a partially in-filled shaft was found at or near the contact between a quartz porphyry intrusive and pillowed mafic volcanics. Sampling of trench rubble returned no anomalous gold values.

Two hundred feet northeast of the Ronal showing, graphitic, pyritic, brecciated mafic volcanic samples were collected from several trench rock dumps. Analyses were nil in gold but the graphitic and pyritic nature of the samples was encouraging enough to warrant mechanical stripping.

Prospecting over the majority of the claim group failed to uncover additional mineralization or anomalous gold values. One sample collected in the northwest part of the property (sample 8467) returned a value of 2057 ppm barium in a silicified pyritic mafic volcanic host. This occurrence however, is very localized.

Mechanical stripping on the Ronal Red Lake showing revealed complex structural deformation in strongly sheared pillowed, brecciated and hyaloclastic mafic volcanics (photos 2 & 4). In the deformed areas, the rocks are generally sericite chlorite schists with minor to moderate carbonate alteration. The undeformed areas exhibit excellent hyaloclastic sections and pillow structures (photos 3 & 5). There is generally trace to 2% fine disseminated pyrite whole rock analysis of the host rock shows the mafic volcanics have Fe-tholeiitic affinity.

Three main shear directions were mapped on the exposure (see appendix 4) trending approximately 030, 120 and 165 degrees respectively. All trends appear to have a penetrative fabric in that each shear emerges uninterrupted from intersection with another. Dextral offsets, when present, are up to 3" and are present in all structural trends. Gold values of up to 0.18 oz/ton across 3 feet were found associated with the northwest (120 degrees) trend in the souther part of the exposure. Additional sampling indicates this structure averages 0.07 oz Au/ton across 3 to 4 feet for an exposed length of 35 feet. It is cut off to the north by a 1 to 2 foot wide north northeast (030 degree) structure and plunges into overburden covered to the south.

Stripping at the Murdoch Creek area 200 feet northeast revealed the same rock type as the Ronal showing. As before, host rocks are pillowed, brecciated mafic volcanics (photo 6) altered to strongly sheared sericite, chlorite schists with minor to moderate carbonate alteration and moderate graphitic material.

However, one deformational trend at 070 degree dominates the exposure. At the west end of the stripped area, an intensely sheared section was uncovered, sericitized moderately graphitic and carbonated with 10 to 15% pyrite as blebs, masses and fragments. The largest fragment is 2 feet wide and at least 6 feet long, and follows the foliation. Photo 7 shows a smaller massive pyrite fragment. Photo 8 is a close up-view of the general appearance of the pyrite in the sheared host.

Two samples were collected from the large massive pyrite block and are not anomalous in gold or base metals. Samples from the sheared pyritic rock around the pyrite blocks returned weakly anomalous gold (100 ppb range) and no anomalous base metals. Samples from other parts of the stripped area are not anomalous in gold. Towards the eastern part of the exposed area, a zone of emerald green mica development (fuchsite?) is present, evidently at the southeast edge of the 070 degree trending structural zone. Samples collected from this area are not anomalous in gold. Whole rock analyses from this area shows the samples in the Komatiitic field and are not a true representation of the original undeformed host rock chemistry (see accompanying Jensen plot). This structural zone corresponds to the Murdoch Creek fault zone and is at least 120 feet wide and is open to the west.

Diamond drill core inspected in the MNM core library submitted by Rosario Resources drill tested a group of airborne EM anomalies in the western part of the property. The EM responses are caused by graphite zones up to 10 feet wide in graphitic brecciated pillowed mafic volcanics. The graphite content in the breccia matrix increases towards the graphite zones. Quite often the graphite zones will have up to 10% pyrite as rounded nodules, angular fragments and disseminations. Pyrite content in the surrounding host rocks vary from trace to 5%. Samples taken from these sections are not anomalous in gold or base metals.

Prospecting and lithochemical sampling of the Island dividing Victoria and McTavish Lakes plus the area identified as the Misema Lake-Mist Lake fault are comparable chemically and textually to the Gauthier Group of pyroclastic rocks found at the Upper Beaver Mine. These rocks are commonly pale buff to rusty brown weathered surface, moderately to strongly foliated with trace pyrite, moderate carbonate and abundant sericite. Photo 1 shows the weathered surface on the Island in Victoria Lake. On the north central side of the Island, a narrow east-west trending graphitic-chlorite shear is present in schistose sheared sericitized rocks. This graphitic shear trends into an area of airborne EM conductors located east of the Island. Drilling by Queenston Gold Mines in the area describe the anomalies as graphite horizons and graphitic breccia units in a felsic pyroclastic host. Surface samples taken from the Island and Misema Lake-Mist Lake fault are not anomalous in gold.

Conclusions and Recommendations

Prospecting, lithochemical sampling and aeromagnetic interpretation have shown a mass of volcanic rocks beneath Victoria Lake, nosing out westward towards the peninsula between McTavish and Victoria Lakes to be similar to the Gauthier Group of Volcanic rocks at the Upper Beaver Mine. Only one contact of these Gauthier looking rocks was observed in the field and has been termed the Misema Lake-Mist Lake fault zone on OGS map 2193 of Bernhardt and Morrisette Townships. Due to the lack of exposure and lack of geophysical magnetic and EM response with the margins of this package of rocks, this area has a low potential for base metal and Upper Beaver Cu-Au type deposits.

Drill testing of airborne EM anomalies north and east of the island in Victoria Lake by Queenston Gold Mines found the conductors to be graphitic shears and brecciated zones in a felsic (sericitic) fragmental host. These conductors were not adequately drill tested by Queenston, because they appeared to drill almost down dip with core axis angles at 10 to 30 degrees on all foliation and structures. Exploration potential for gold remains good (see report on Consolidated Thompson-Lundmark West Property).

The airborne EM conductors on the west end of the property have been adequately explained by diamond drilling from Rosario Resources and Brex Explorations as graphitic zones and graphitic brecciated mafic pillowed volcanics. No further work is required in this area.

Mechanical stripping performed at the Ronal Red Lake showing uncovered a northwest trending shear zone with strongly anomalous gold values over 3 to 4 feet width in a pillowed brecciated pillowed and hyaloclastic mafic volcanic host.

Exploration potential for gold deposition in this area remains good. Detailed channel sampling and outcrop trenching is required to further delineate the structure. Additional mechanical stripping of 2 to 3 days should be performed to locate fault offsets and other similar structures.

Mechanical stripping performed at the Murdoch Creek area uncovered the Murdoch Creek fault zone. Weakly anomalous gold values are associated with a 10-15 foot wide sulphide rich (pyrite) portion of the fault zone. Blocks of massive pyrite with this section are not anomalous in gold or base metals, but are of interest because they may represent part of a massive sulphide deposit somewhere along trend. Exploration potential for gold deposition is good.

Additional mechanical stripping (2 to 3 Days) is required to expose more of the sulphide rich section and western limit of the fault zone. As part of this work, 1 to 2 days mechanical stripping should be done at the old shaft area, northwest of the Ronal showing to explore the gold potential of the contact between the quartz porphyry intrusive and host pillowed mafic volcanics. Detailed mapping should be done over a 3 or 4 claim area surrounding these stripped areas at a scale of 1" = 100'.

PROPOSED BUDGET

Line cutting	5 miles @ \$400.00/mile	\$ 2,000.00
Geology mapping	5 days @ \$200.00/day	1,000.00
Mechanical stripping	5 days @ \$880.00/day (10 hours per day)	4,500.00
Washing, sampling, assaying		2,000.00
		<hr/>
Subtotal		\$ 9,500.00
Contingencies		500.00
		<hr/>
TOTAL		\$10,000.00

REFERENCES

Ridler R. H.

1970: Relationship of Mineralization to Volcanic Stratigraphy in the Kirkland-Larder Lakes Areas, Ontario;
Geological Association of Canada Proceedings Volume 21, P33-42.

Jensen, L. S.; Langford, F. F.

1985: Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area, Ontario
Ontario Geology Survey Miscellaneous paper 123.

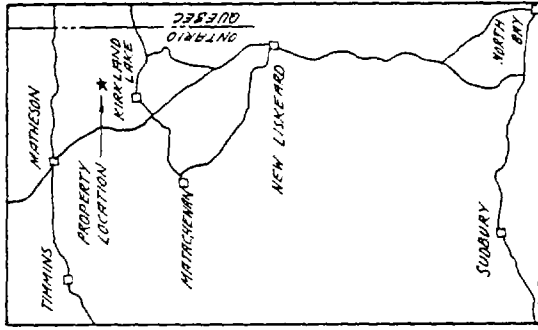
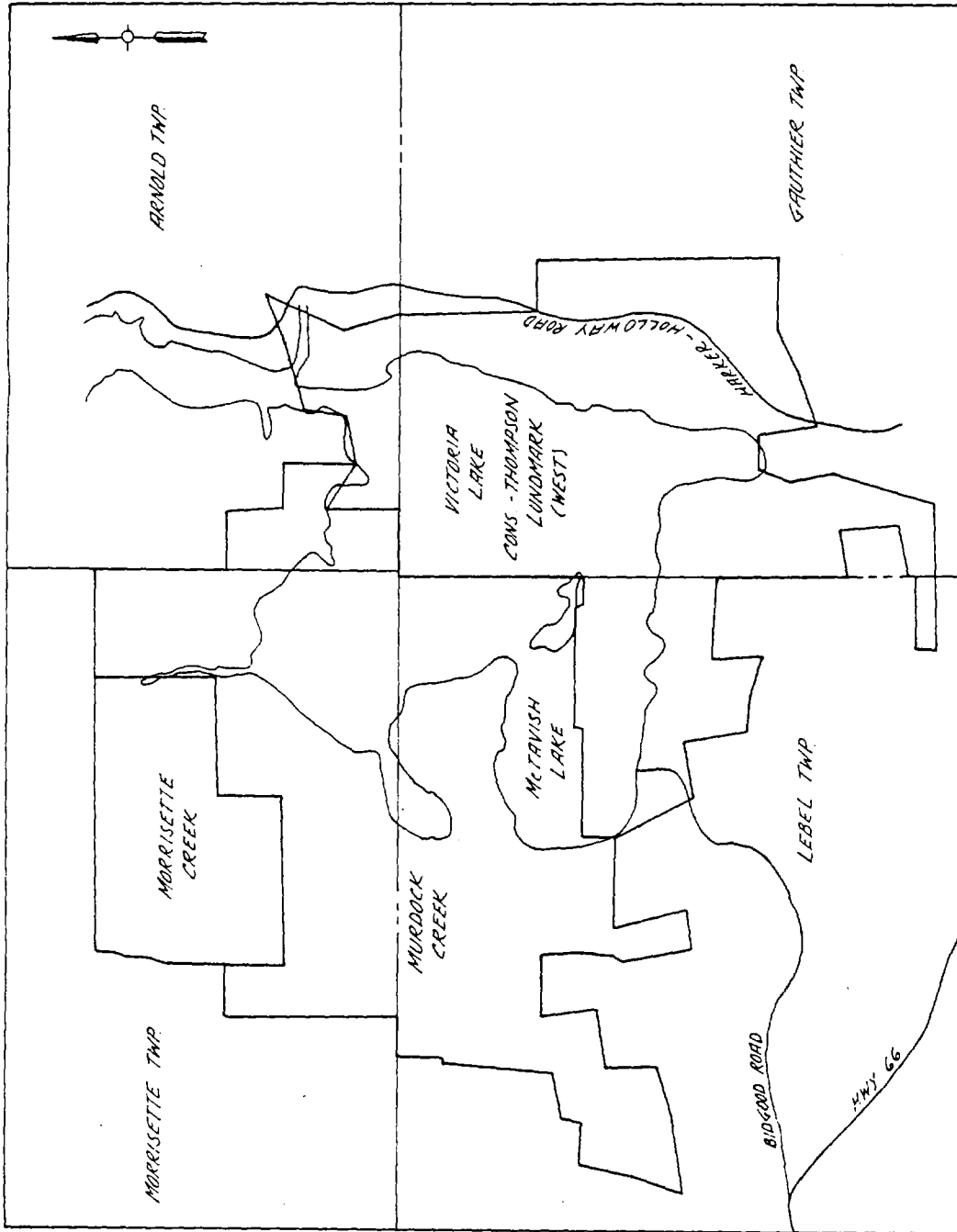
CERTIFICATE OF QUALIFICATIONS

I, Bradley C. Leonard of 260 Queen's Quay West, Apt. 1502 in the City of Toronto, in the Province of Ontario do hereby certify that:

- 1) I am a graduate of the University of Toronto (1983) with a bachelor of Science degree (B.Sc.) with honours in geological sciences.
- 2) I have been practising my profession as a geologist since 1983.
- 3) I am employed as a Staff Geologist by Pamorex Minerals Inc. and have no interest, directly or indirectly, in the property, Pamorex Minerals Inc. or any of its Joint Venture Partners.
- 4) This report was prepared by me using government maps and reports; miscellaneous data on file in the files of the resident geologist, Ministry of Northern Development and Mines, Kirkland Lake, Ontario, and time spent examining the property.

Bradley C. Leonard B.Sc.,
Staff Geologist,
Pamorex Minerals Inc.,
Kirkland Lake, Ontario.

August 30, 1990.



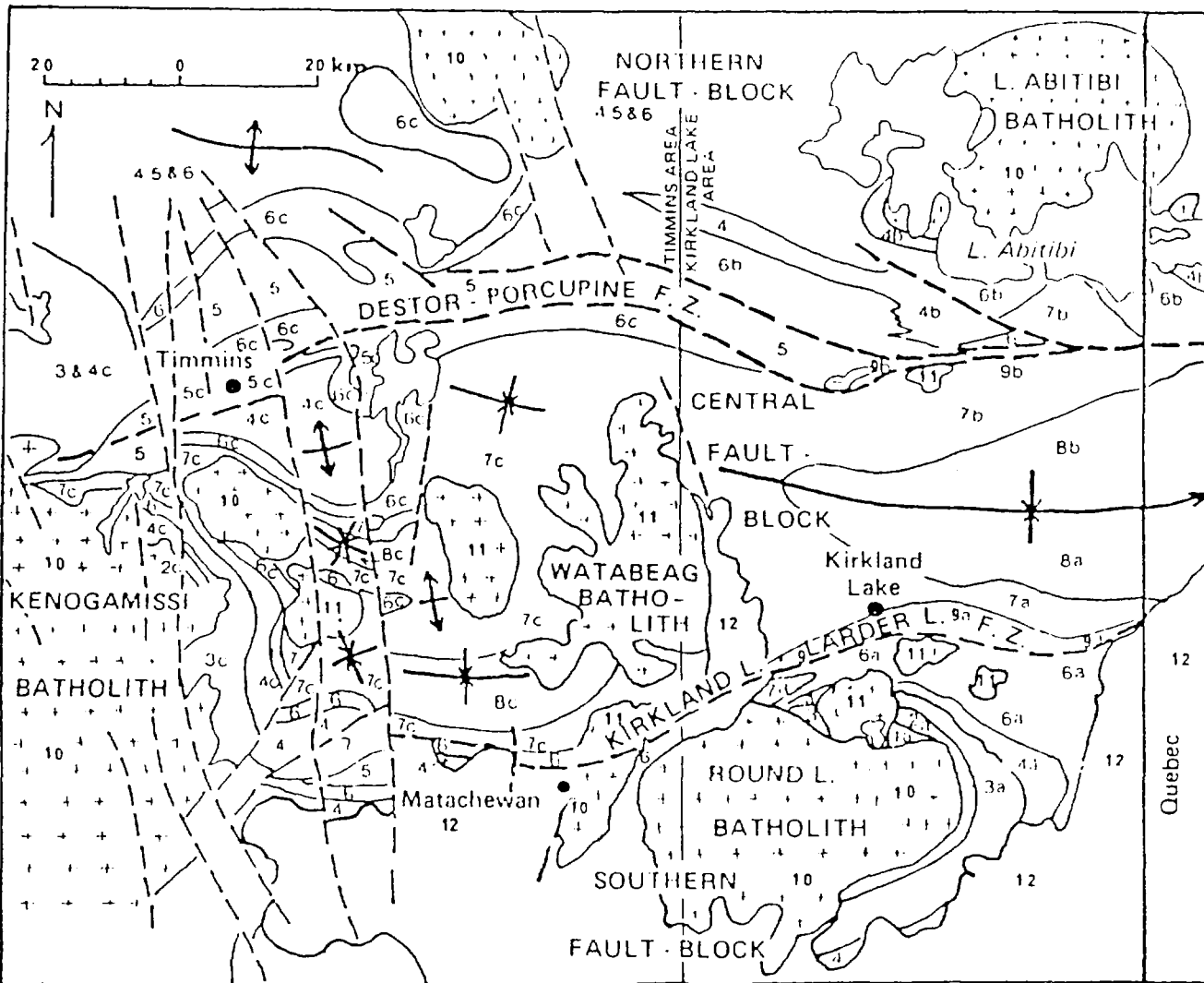
— KEY MAP —
 0 50 M.

PATMOREX MINERALS INC.
 PROPERTY MAP

SCALE 1:2780 AUG 1980

FIGURE 1

0 2.780



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, 8b, Blake River Group, 8c*** Blake River (Upper Em., Tisdale Group)

- 7 7a, 7b, Kimojevis Group, 7c Kimojevis Group, (Middle Em., Tisdale Group)
- 6 6a Larder Lake Group, 6b Stoughton-Bequemaure Group, 6c Lower Em., Tisdale Group
- 5 5c Porcupine Group
- Lower Supergroups
- 4 4a Skard Group, 4b Hunter Mine Group, 4c Upper Em., Deloro Group
- 3 3a Catherine Group, 3c Middle Em., Deloro Group
- 2 2a Wabewawa Group, 2c Lower Em., Deloro Group
- 1 1a Pacaud tuffs ****

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

PAMOREX MINERALS INC.

MURDOCH CREEK PROPERTY

REGIONAL GEOLOGY

ARNOLD TWP.

MORRISSETTE TWP.

KINOJEVIS GROUP

Victoria Lake

GAUTHIER GROUP

BIDGOOD SHAFT

TIMISKAMING

GAUTHIER TWP.

LONG LAKE FAULT

LEBEL TWP.

MURDOCK CREEK FAULT

Kirkland Lake

LEBEL STOCK

McVITTIE BASALTS

PAMOREX MINERALS INC.

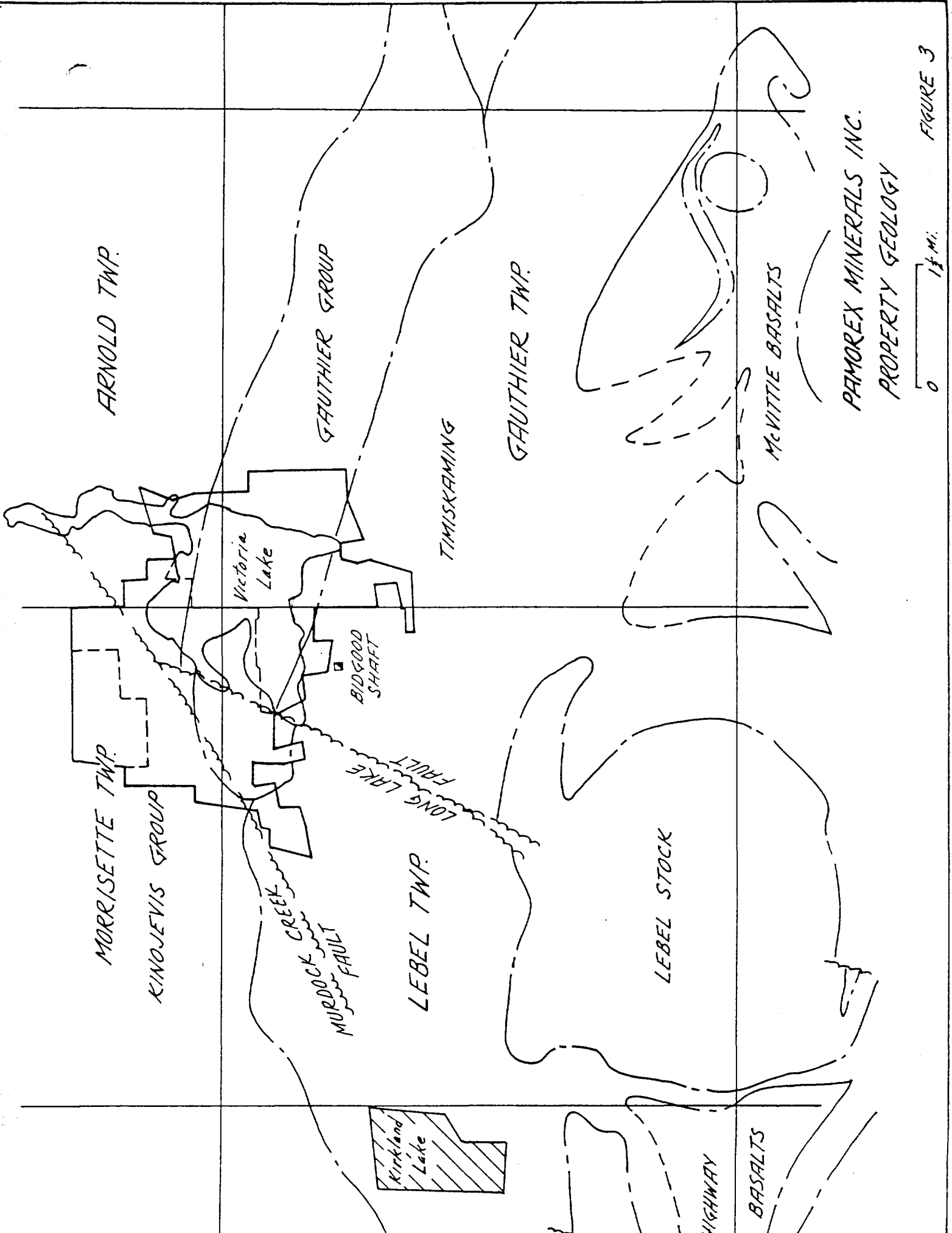
PROPERTY GEOLOGY

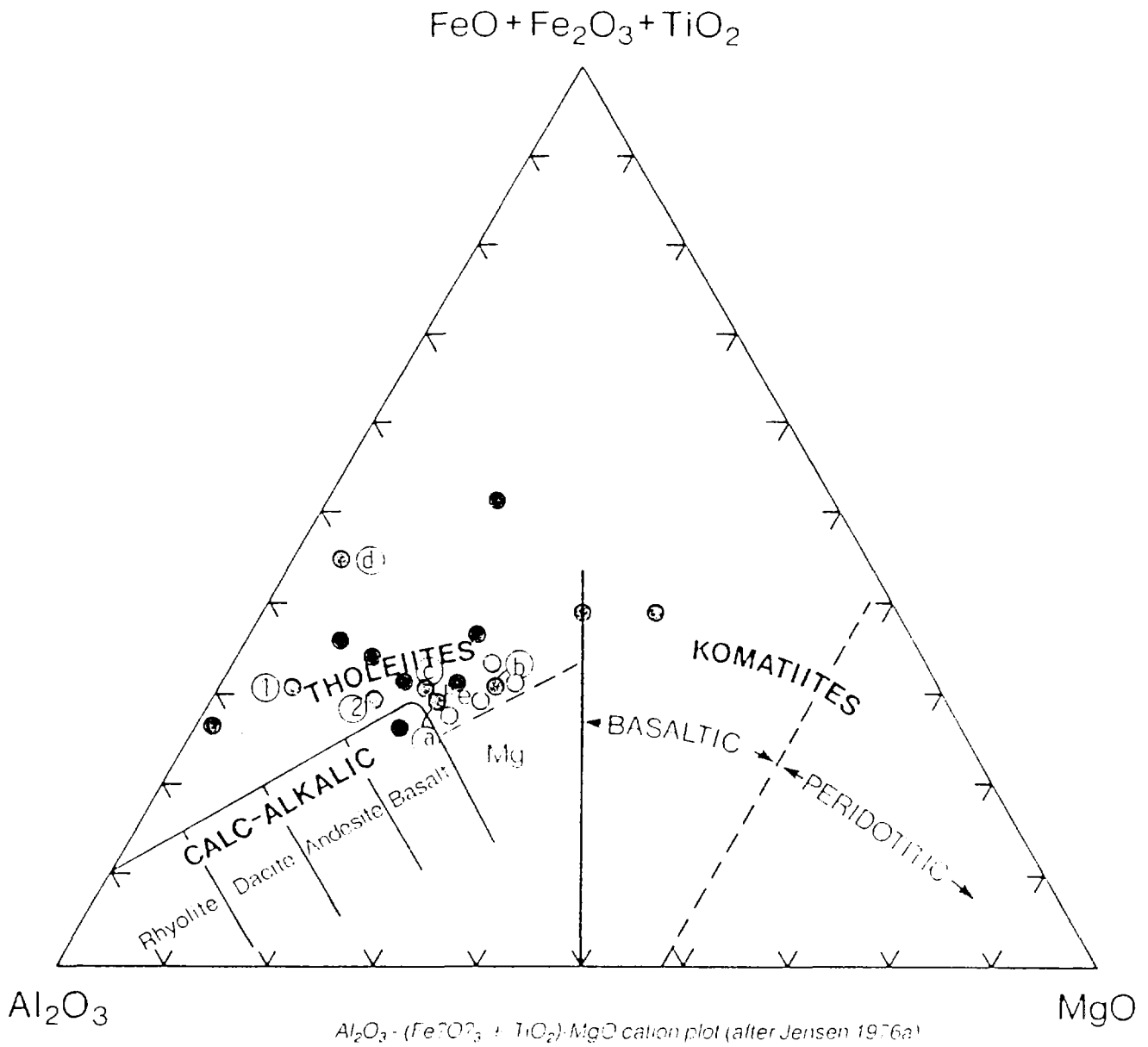
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FIGURE 3

HIGHWAY

BASALTS





- | | | | |
|---|--|---|---|
| ● | RONAL RED LAKE AREA | ● | MURDOCH CREEK STRIP |
| ● | POSSIBLE GAUTHIER CR. | ● | CTLW STRIPPED AREA (a)-8453
(b)--204
(c)--205
(d)--210 |
| ● | MORRISETTE CREEK STRIP | ● | BIDGOOD DIORITE (Dissem. Magnetite) |
| ○ | KINOJEVIS VOLCANICS (1)-8436
(2)-8467 | ○ | GABBROIC INTRUSIVE NORTH OF MISENA
MIST LAKE FAULT |

$Fe + Ti$

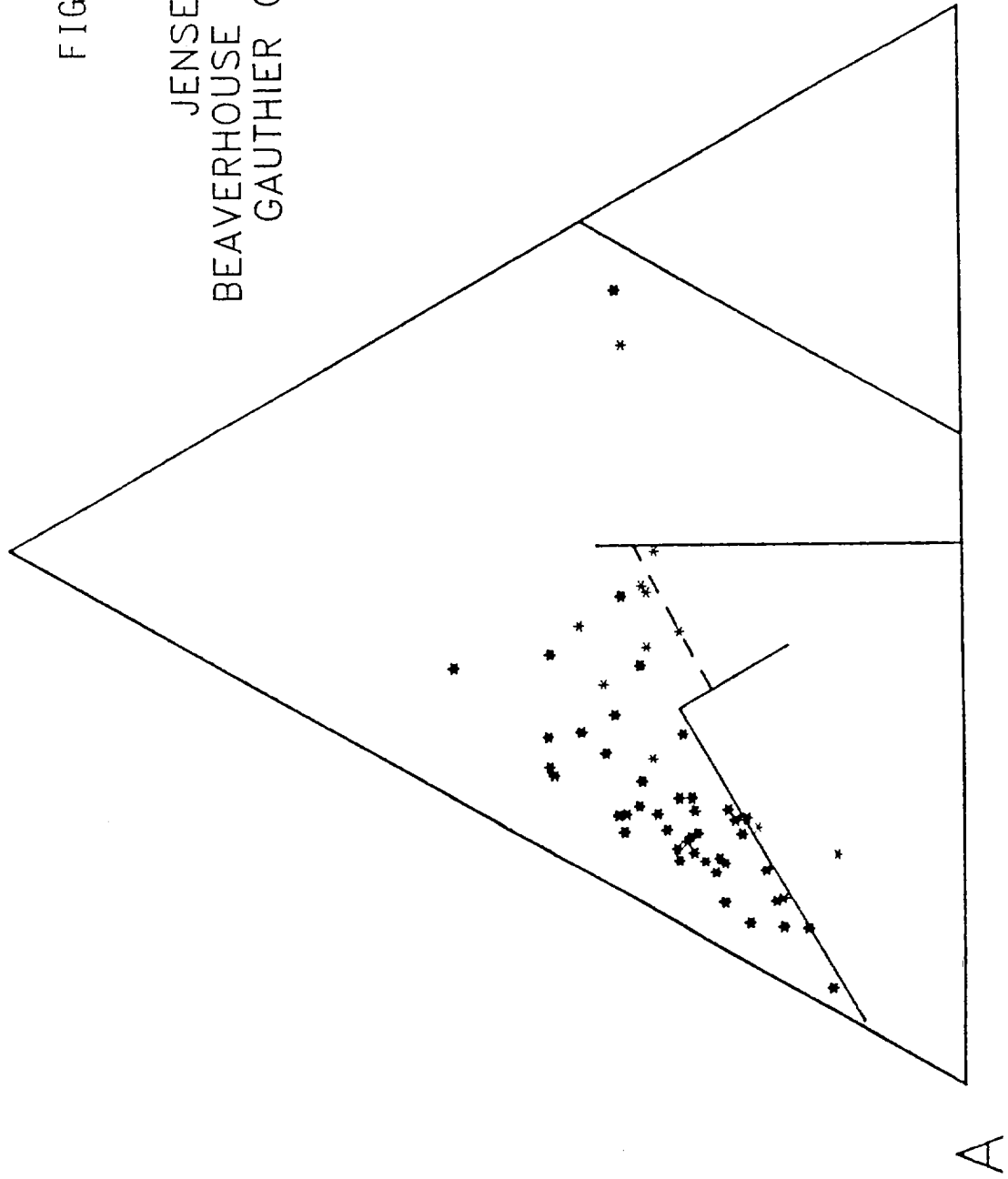


FIGURE 5

JENSEN PLOT
BEAVERHOUSE LAKE JV PROJECT
GAUTHIER GROUP—SURFACE

Mg

Al

A

Fe + Ti

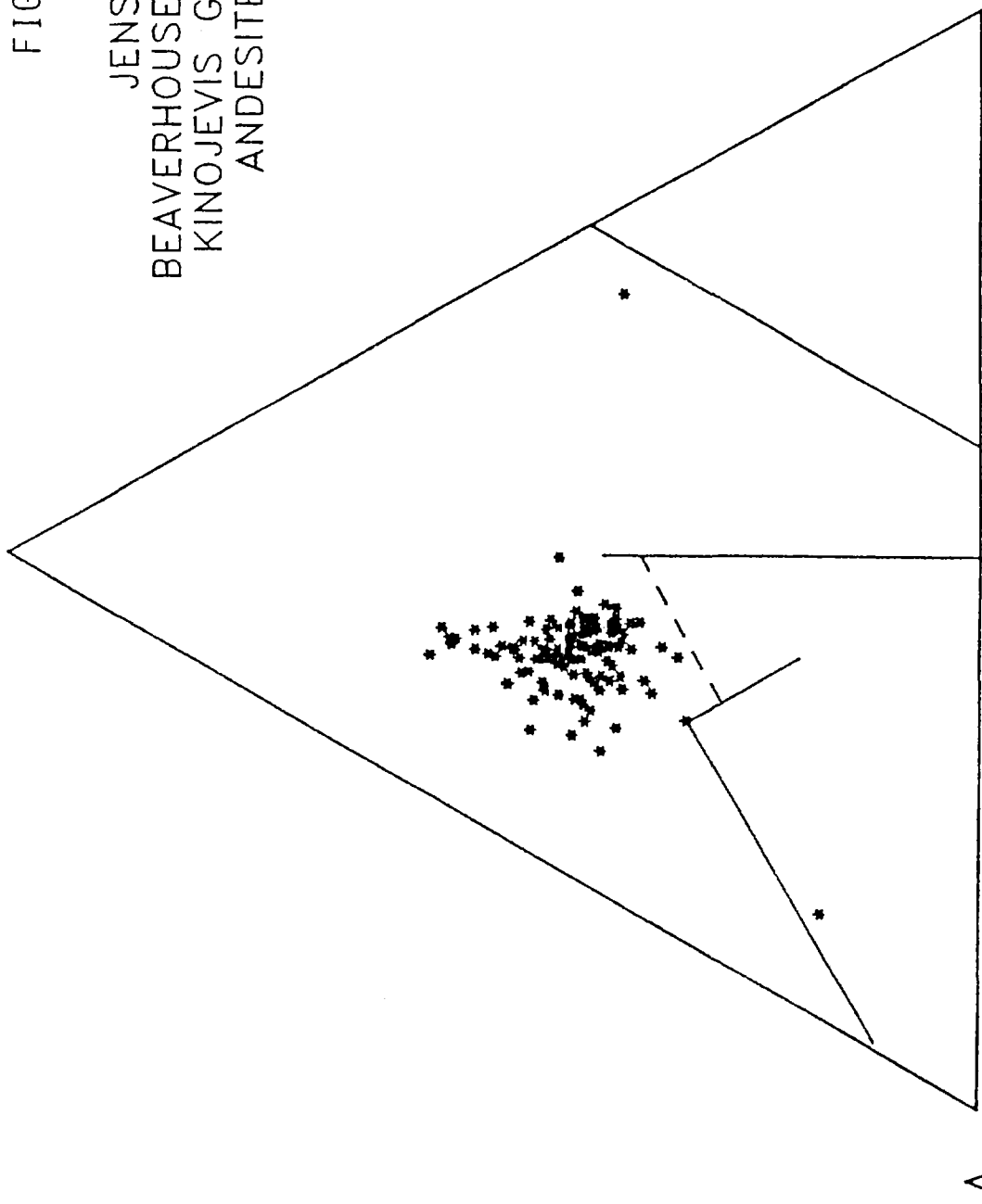


FIGURE 6

JENSEN PLOT
BEAVERHOUSE LAKE JV PROJECT
KINOJEVIS GROUP-SURFACE
ANDESITE/DIORITE

Al

Mg

APPENDIX #1

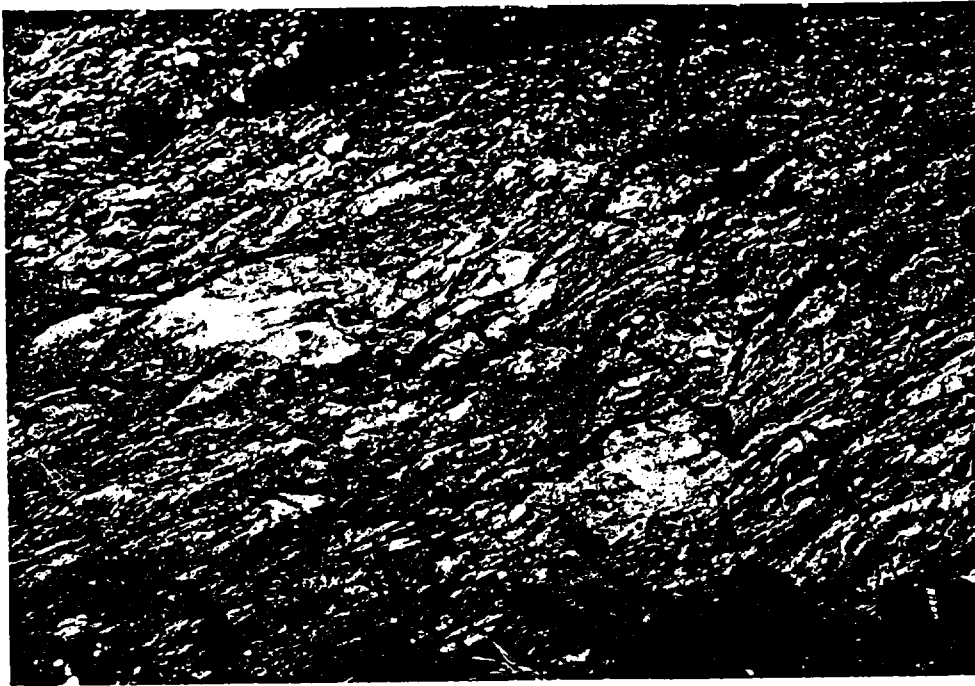


Photo 1
Gauthier Group volcanics on
Island in Victoria Lake

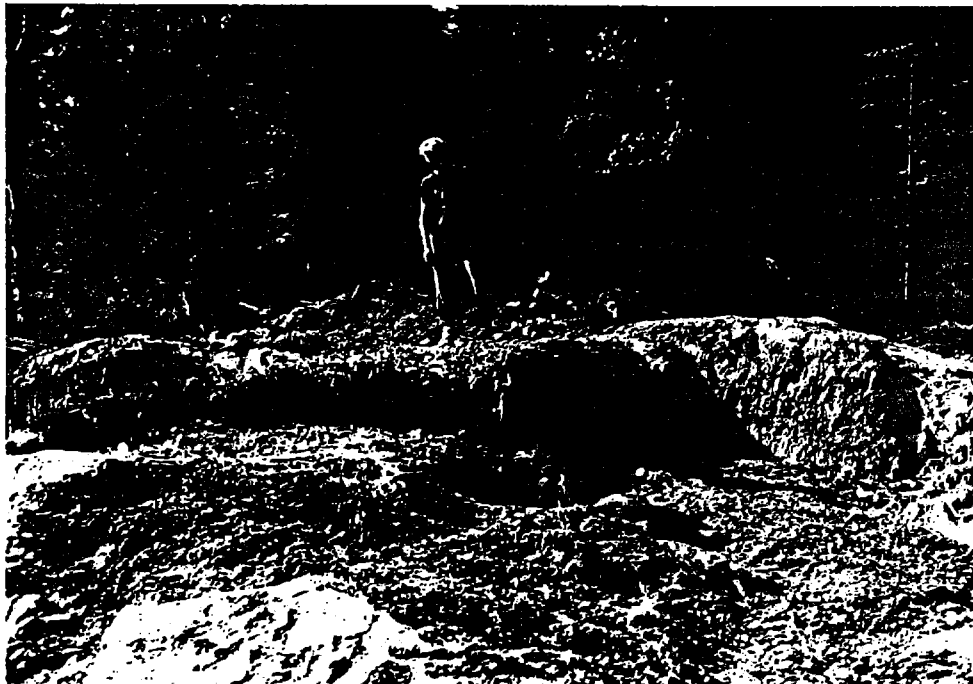


Photo 2
Intersection of shear structure at
Ronald Red Lake stripped area



Photo 3
Pillowd volcanics and hyaloclastite at
Ronald Red Lake stripped area

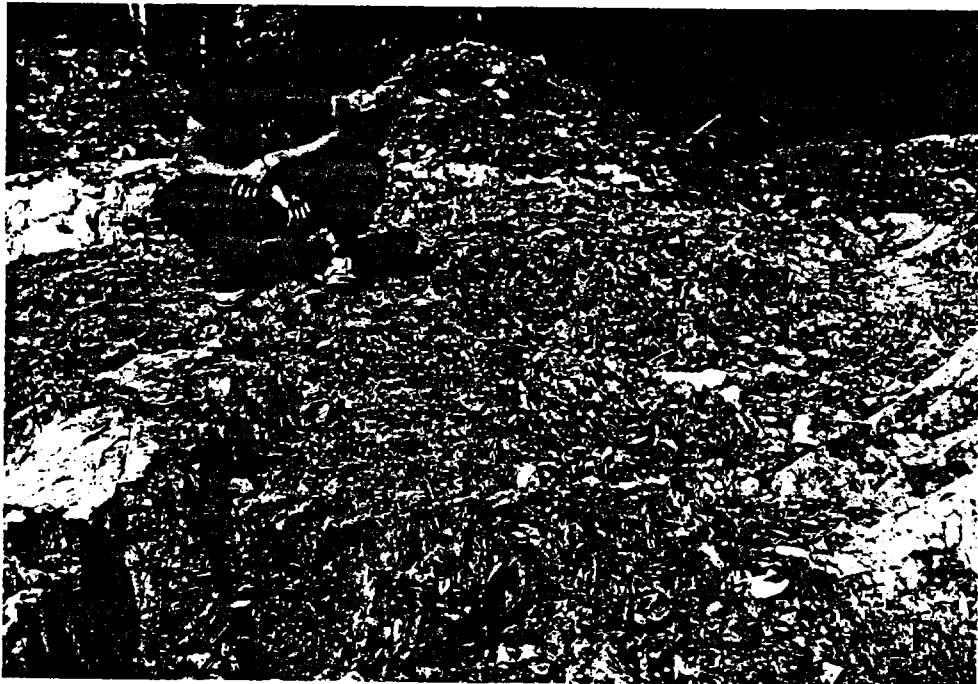


Photo 4
Shear structure at Ronald Red Lake stripped area



Photo 5
Hyaloclastite breccia at the Ronal Red Lake showing



Photo 6
Shearing and deformation at Murdock Creek stripped area



Photo 7
Sulphide blocks in sheared rock Murdock Creek Fault Zone
(Murdock Creek stripped area)

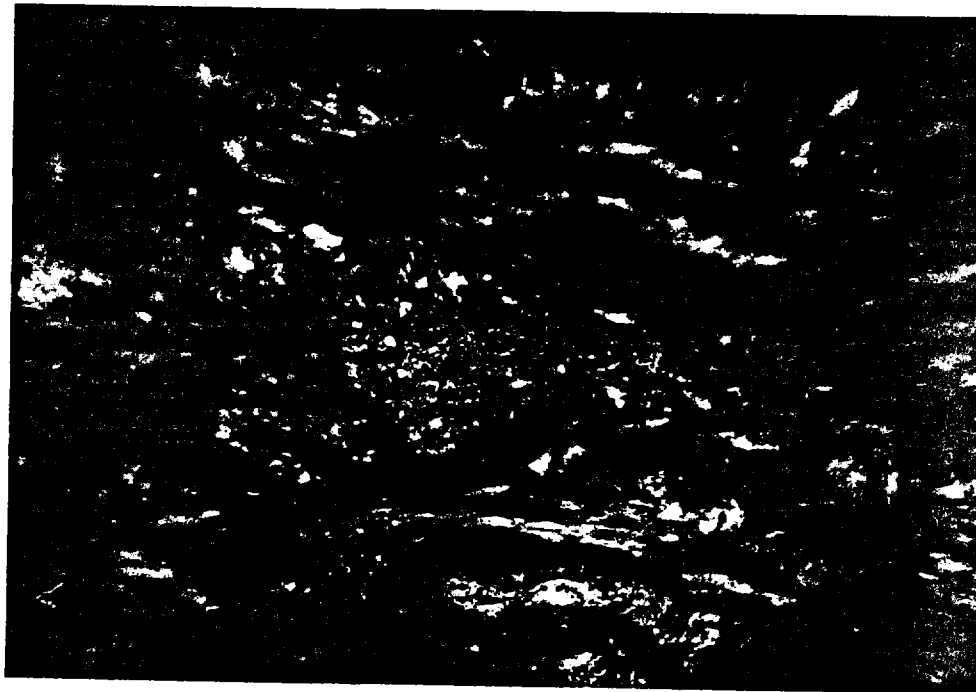


Photo 8
Close up of sulphides in Murdock Creek stripped area

APPENDIX #2



Swastika Laboratories

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Assaying - Consulting - Representation

Established 1928

Page 1 of 2

Geochemical Analysis Certificate

0W-0819-RG2

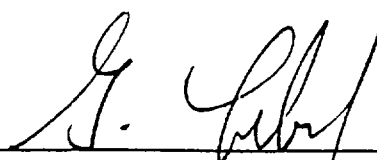
Company: **PAMOREX MINERALS INC.**
Project: 0519
Attn: B. LEONARD

Date: JUN-20-90
Copy 1. HOLD COPY FOR KIRKLAND LAKE
2. FAX RESULTS TO TIMMINS 267-2332

We hereby certify the following Geochemical Analysis of 33 ROCK samples submitted JUN-15-90 by B. LEONARD.

Sample Number	Au ppb	Au check ppb
8410 WRA	3	
8411	9	5
8412	Nil	
8413	Nil	
8414	5	
8415	3	
8416	7	
8417	669	
8418	244	
8419	465	360
8420	2	
8421	5	
8422	115	118
8423	57	
8424	Nil	
8425	77	70
8426	17	
8427	2	
8428 WRA	3	
8429	3	
8430	14	
8431	2	
8432	5	
8433	Nil	
8434	3	
8435	48	65
8436 WRA	2	
8437	5	
8438	Nil	
8439	Nil	

Au was determined using 1 AT fusions

Certified by 
G. Lebel / Manager



Established 1928

Swastika Laboratories

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Assaying - Consulting - Representation

Page 2 of 2

Geochemical Analysis Certificate

0W-0819-RG2


Company: **PAMOREX MINERALS INC.**
Project: 0519
Attn: B. LEONARD

Date: JUN-20-90
Copy 1. HOLD COPY FOR KIRKLAND LAKE
2. FAX RESULTS TO TIMMINS 267-2332

We hereby certify the following Geochemical Analysis of 33 ROCK samples submitted JUN-15-90 by B. LEONARD.

Sample Number	Au ppb	Au check ppb
8440	Nil	
8441	Nil	
8442	393	225

Au was determined using 1 AT fusions

Certified by 
G. Lebel / Manager



Established 1928

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Assaying - Consulting - Representation

Geochemical Analysis Certificate

0W-0901-RG1

Company: **PAMOREX MINERALS INC**
Project: **0519**
Attn: **BRAD LEONARD**

Date: **JUL-04-90**
Copy 1. **HOLD COPY (567-5056)**
2. **FAX TO TIMMINS 267-2332**

We hereby certify the following Geochemical Analysis of 2 ROCK samples submitted JUN-29-90 by BRAD LEONARD.

Sample Number	Au ppb	Au check ppb
8466	10	
8467 WRA	17	10

Au was determined using 1 AT fusions

Certified by

G. Lebel / Manager

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

Telephone (705) 642-2244

FAX (705) 642-2200



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Geochemical Analysis Certificate

0W-1125-RG1

Company: PAMOREX MINERALS INC.
Project: 0519
Attn: B. LEONARD

Date: AUG-10-90
Copy 1. HOLD FOR PICKUP PHONE 567-5056
2. FAX RESULTS TO TIMMINS 267-2332

We hereby certify the following Geochemical Analysis of 4 ROCK samples submitted AUG-07-90 by B. LEONARD.

Sample Number	Au ppb	Au check ppb	Au 2nd ppb	Au check 2nd ppb	Ag ppm	Cu ppm
8469	186					
8470	15					
8471	2					

Au was determined using 1 AT fusions

Certified by

G. Lebel / Manager

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

Telephone (705) 642-3244

FAX (705) 642-3300



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Page 1 of 2

Geochemical Analysis Certificate

0W-1204-RG1

Company: **PAMOREX MINERALS INC.**
Project: **0519**
Attn: **BRAD LEONARD**

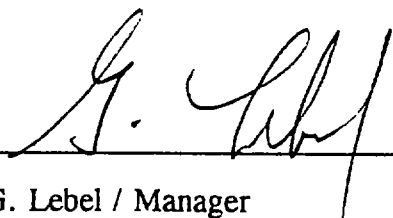
Date: **AUG-29-90**

Copy 1. HOLD COPY
2. FAX TO TIMMINS 267-2332

We hereby certify the following Geochemical Analysis of 44 ROCK samples submitted AUG-20-90 by BRAD LEONARD.

Sample Number	Au Au check ppb	Au 2nd Au check ppb	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Zn ppm
8473	257		0.2	1	108	22	21	22
8474	38							
8475	1097	789						
8476	1035							
8477	62							
8478	31							
8479	4320	5006	5931	6240				
8480	1371							
8481	29							
8482	521							
8483	106							
8484	213							
8485	55							
8486	273	171						
8487	15							
8488	199							
8489	30		0.7	7	172	127	26	125
8490	113	204	0.9	12	212	55	36	71
8491	142		0.9	10	178	105	30	113
8492	17		0.3	11	226	97	12	114
8493	104		0.1	3	267	118	5	92
8494	54							
8495	87							
8496	55							
8497	115							
8498 WRA	130							
8499 WRA	7							
8500 not received								
8501	51							
8502	19							

Au was determined using 1 AT fusions

Certified by 
G. Lebel / Manager

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

Telephone (705) 649-2944 FAX (705) 649-2200



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Page 2 of 2

Geochemical Analysis Certificate

0W-1204-RG1

Company: **PAMOREX MINERALS INC.**
Project: **0519**
Attn: **BRAD LEONARD**

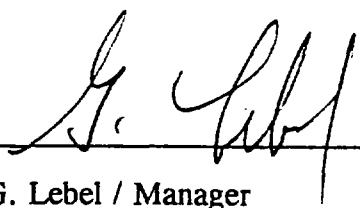
Date: **AUG-29-90**

Copy 1. HOLD COPY
2. FAX TO TIMMINS 267-2332

We hereby certify the following Geochemical Analysis of 44 ROCK samples submitted AUG-20-90 by BRAD LEONARD.

Sample Number	Au ppb	Au check ppb	Au 2nd ppb	Au check 2nd ppb	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Zn ppm
8503	2									
8504	33									
8505	55									
8506	77	69								
96214 no received										
96215	43									
96216	19									
96217	15									
96218	720	686								
96219	27									
96220	31									
96221	7									
96222	33									
96223	40									
96224	19									
96225	7									

Au was determined using 1 AT fusions

Certified by 
G. Lebel / Manager



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Geochemical Analysis Certificate

0W-1220-RG1

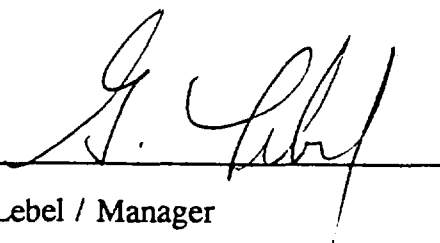
Company: **PAMOREX MINERALS INC.**
Project: 0520
Attn: BRAD LEONARD

Date: AUG-23-90
Copy 1. HOLD COPY AND PHONE 567-5056
2. FAX TO TIMMINS

We hereby certify the following Geochemical Analysis of 5 ROCK samples submitted AUG-21-90 by B. LEONARD.

Sample Number	Au ppb
WR-7	
WR-8	
WR-10	
WR-11	
8500	34

Au was determined using 1 AT fusions
WRA results to follow

Certified by 
G. Lebel / Manager



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Geochemical Analysis Certificate

0W-1187-RG1

Company: **PAMOREX MINERALS INC**
Project: **0519**
Attn: **B. LEONARD**


Date: **AUG-20-90**

Copy 1. W. SMITH 567-5056 HOLD COPY
2. FAX TO TIMMINS 267-2332

We hereby certify the following Geochemical Analysis of 1 ROCK samples submitted AUG-17-90 by W. SMITH.

Sample Number	Au ppb	Ag ppm	Cu ppm
C-96214	53/57	0.7	153

Au was determined using 1 AT fusions

Certified by 
G. Lebel / Manager



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Certificate of Analysis

Certificate No. OW-0819-RG2 Date Aug. 16, 1990

Received June 15, 1990 3 rock samples

Submitted by Pamorex Minerals Inc., Kirkland Lake, Ontario proj#0519

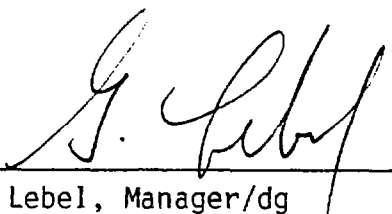
Attention: B. Leonard

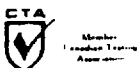
WHOLE ROCK ANALYSIS

SAMPLE NO:	8410	8428	8436
SiO ₂ %	63.64	63.74	60.38
Al ₂ O ₃ %	14.84	15.02	14.81
Fe ₂ O ₃ %	8.91	4.87	6.26
CaO %	5.99	4.39	4.44
MgO %	2.27	0.68	1.38
Na ₂ O %	2.66	2.11	2.11
K ₂ O %	0.01	0.71	0.27
TiO ₂ %	0.77	0.71	0.77
MnO %	0.16	0.09	0.09
P ₂ O ₅ %	0.07	0.07	0.09
LOI %	0.62	7.52	9.27
Ba PPM	221	362	203
Cr PPM	123	189	271
Nb PPM	<10	<10	<10
Sr PPM	146	94	157
Y PPM	<10	<10	<10
Zr PPM	234	294	223

*ISLAND
(Possible graphite)*

NOTE: Slight chromium contamination due to the use of hard chrome steel pulverizer plates.

Per 
G. Lebel, Manager/dg



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Assaying - Consulting - Representation

Certificate of Analysis

Certificate No. OW-0901-RGI

Date Aug. 16. 1990

Received June 29, 1990 1 rock sample

Submitted by Pamorex Minerals Inc, Kirkland lake, Ontario proj#0519

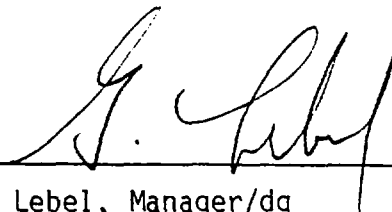
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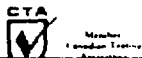
WHOLE ROCK ANALYSIS

SAMPLE NO: 8467

SiO ₂	%	57.94
Al ₂ O ₃	%	15.54
Fe ₂ O ₃	%	7.51
CaO	%	2.78
MgO	%	4.84
Na ₂ O	%	0.56
K ₂ O	%	4.67
TiO ₂	%	0.69
MnO	%	0.07
P ₂ O ₅	%	0.06
LOI	%	5.25
Ba	PPM	2057
Cr	PPM	472
Nb	PPM	<10
Sr	PPM	141
Y	PPM	18
Zr	PPM	184

NOTE: Slight chromium contamination due to the use of hard chrome steel pulverizer plates.

Per 
G. Lebel, Manager/dg



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

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Certificate of Analysis

Certificate No. OW-1205-RGI

Date Aug 27, 90

Received Aug. 20, 1990 6 rock samples

Submitted by Pamorex Minerals Inc., Kirkland Lake, Ontario proj#0519

ATTENTION: B. Leonard

WHOLE ROCK ANALYSIS

	SAMPLE NO:	WR-1	WR-2	WR-3	WR-4	WR-5	WR-6
SiO ₂	%	52.65	54.09	49.05	50.31	50.11	48.01
Al ₂ O ₃	%	13.47	15.07	13.77	17.19	13.92	14.39
Fe ₂ O ₃	%	10.89	8.69	8.46	9.59	8.25	6.21
CaO	%	9.09	9.81	7.71	5.82	7.74	7.81
γO	%	6.79	5.11	6.76	4.34	6.73	5.21
Na ₂ O	%	2.06	2.35	1.28	2.25	1.15	1.98
K ₂ O	%	0.01	0.01	0.41	0.32	0.27	0.79
TiO ₂	%	0.84	0.87	0.71	0.89	0.72	0.71
MnO	%	0.17	0.14	0.15	0.17	0.14	0.12
P ₂ O ₅	%	0.08	0.09	0.06	0.08	0.07	0.13
LOI	%	3.86	3.67	11.49	8.91	10.74	14.45
Ba	PPM	18	12	43	79	76	367
Cr	PPM	1094	644	283	364	288	138
Nb	PPM	42	<10	21	24	26	<10
Sr	PPM	140	145	75	106	82	303
Y	PPM	10	<10	<10	<10	<10	<10
Zr	PPM	142	132	75	101	72	251

NOTE: Slight chromium contamination due to the use of hard chrome steel pulverizer plates.

Per 
G. Lebel, Manager/dg





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Certificate of Analysis

Certificate No. OW-1220-RGI Date Aug. 27, 1990

Received Aug. 21, 1990 4 rock samples

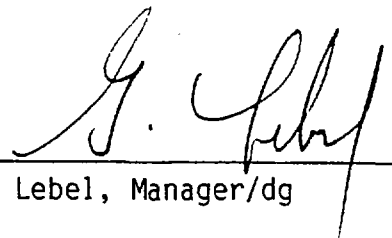
Submitted by Pamorex Minerals Inc., Kirkland Lake, Ontario proj#0520

ATTENTION: B. Leonard

WHOLE ROCK ANALYSIS



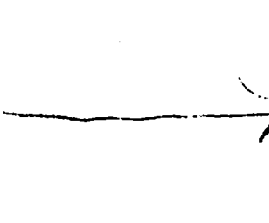
SAMPLE NO:	WR-7	WR-8	WR-10	WR-11
SiO ₂ %	46.35	49.91	45.22	45.29
Al ₂ O ₃ %	19.36	13.59	15.99	17.38
Fe ₂ O ₃ %	10.11	10.41	10.73	10.17
CaO %	1.95	5.76	7.79	8.09
%	9.05	7.54	9.79	10.07
Na ₂ O %	5.37	2.89	2.24	2.71
K ₂ O %	0.01	0.01	0.01	0.01
TiO ₂ %	0.91	0.93	0.69	0.54
MnO %	0.08	0.16	0.16	0.15
P ₂ O ₅ %	0.06	0.06	0.06	0.06
LOI %	6.61	8.61	7.19	5.44
Ba PPM	55	10	<10	<10
Cr PPM	399	279	404	556
Nb PPM	<10	10	26	<10
Sr PPM	98	87	327	658
Y PPM	<10	<10	<10	<10
Zr PPM	39	55	32	<10

NOTE: Slight chromium contamination due to the use of hard chrome steel pulverizer plates.

Per 
G. Lebel, Manager/dg



APPENDIX #3

SAMPLE NUMBER	PROPERTY	SHOWING OR LOCATION	SAMPLE DESCRIPTION	ASSAY + COMMENTS
410	MURDOCH CREEK	ISLAND IN M'TAVISH L.	<p>Lt. grey green sheared sericite chlorite schist, no apparent sulphides; abundant pervasive calcite; V. sericite appearance (due to calcite); Sheared rock! GRAB.</p>	3 PKB
411			<p>GRAB - granitic when fault zone crosses - abundant sericite and chlorite - no sulphides; abundant calcite - V. sericite appearance - can see pronounced cut in hillside where shear cuts through</p>	9 PKB
412			<p>- Sericite schist - grab across a 7' wide shear zone - V. sericite mostly crumbly sample with abundant carbonate (calcite) sericite, with calcite - on S. side of island</p>	1 PKB
413			<p>- good sample of lava; nice of marked white quartz float with a moderate amount of chlorite inclusions. Abundant calcite in quantity; Ti 10.</p>	1 PKB
414	Ronald Red Lake Showing		<p>GRAB OF TRENCH RUBBLE - light green schistified from volcanic - in a block had cherty matrix with 5-7% disseminated calcite. Ti 10</p>	5 PKB

SAMPLE NUMBER	PROPERTY	SHOWING OR LOCATION	SAMPLE DESCRIPTION	ASSAY + COMMENTS
415	TRENCH CORRAL	ROYAL RED LAKE	Composite chip across 2m ahead in trench Sample rock on 8414.	3 PPS
416			Composite chip across 1/2 m. - pale green hard dark(?) volcanic - medium Tr Py. - poor exposure - most of trench is overgrown	Trench beside L 92E 461504 7 PPS
417			H. greenish carbonate rock. with 1-2' thin detour Py. Shearing is approx 110° Composit ^{ion} of - pale felicit ^{ous} dyke?	East of Original Royal Showing 669 PPS
418			Composite grab in vicinity of sample 417 - same as 417 - bleached volcanic.	Part of original Royal showing 714 PPS
419			shard rusty material no joints - volcanic - minor quartzite fragments	Part of original Royal showing 465 PPS

SAMPLE NUMBER	PROPERTY	SHOWING OR LOCATION	SAMPLE DESCRIPTION	ASSAY + COMMENTS
120	MURDOCK CREEK	Rental Red Lake	<ul style="list-style-type: none"> - quartz rubble. - 3" quartz veins in altered quartz Feldspathic porphyry host. 	From Rental Share 2 PPS
121		↓	<p>Compositional gneiss</p> <p>Abundant barren quartz carbonate stringers attend, flattened matrix volcanic host</p>	Cliff face N of road. 5 PPS.
122		Pits from Kanaokott NW of Mt. Tairak L.	<p>Quartz + matrix Rubble with tr. Fe fine py and minor block hematite (?)</p> <p>- deep trench</p>	115 PPS
123			Same as 122	57 PPS
124			<p>Composite chip across 110 x 4mm trench wall of 6-8" wide pit - on abandoned volcanic vent.</p> <p>Assay of 1.0 g. chip 1112</p>	1112

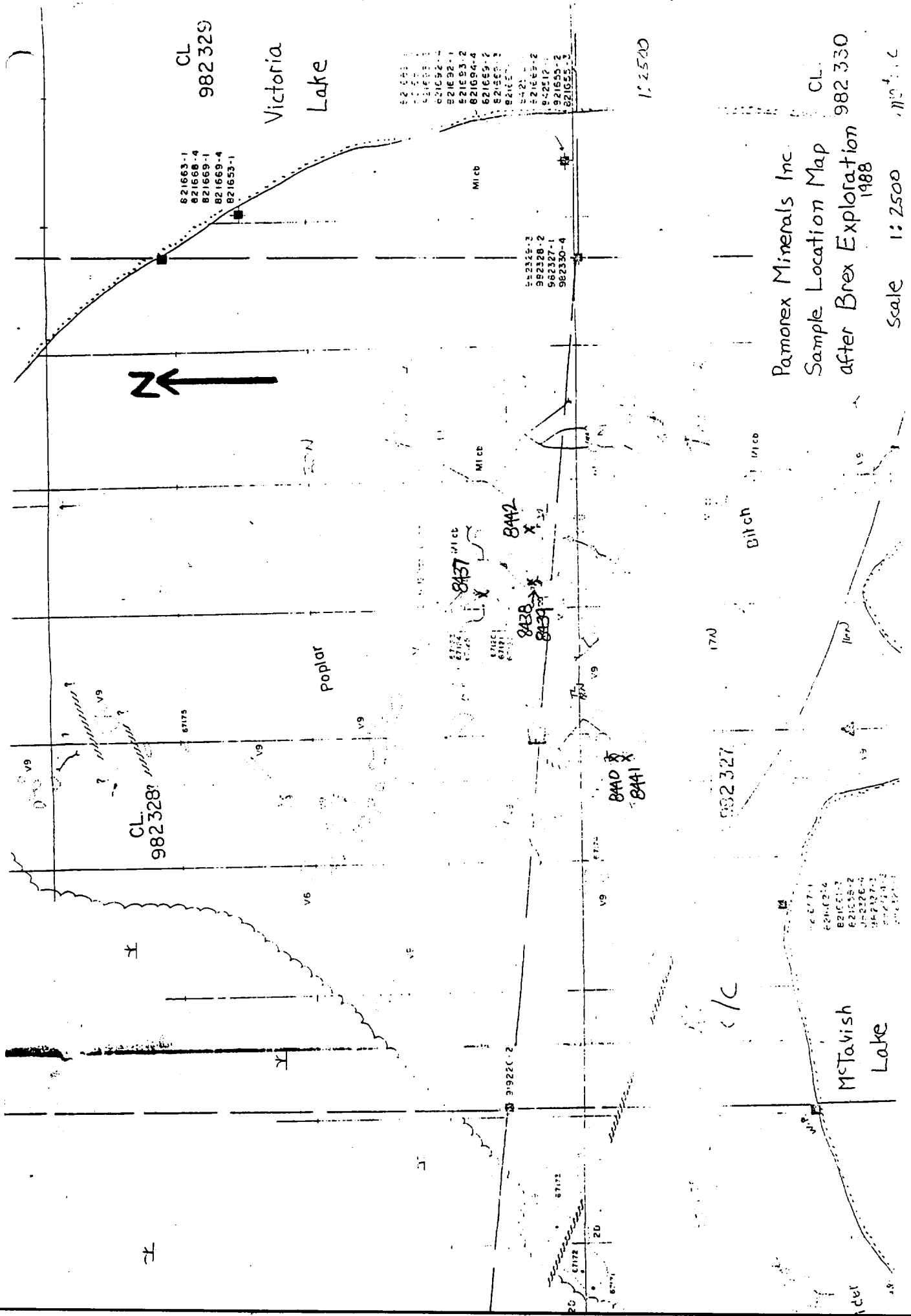
SAMPLE NUMBER	PROPERTY	SHOWING OR LOCATION	SAMPLE DESCRIPTION	ASSAY + COMMENTS
125	MURDOCH CREEK	KEWASKOTT SHAFT TIE IN	<ul style="list-style-type: none"> - SHAFT RUBBLE - Quartz and calcite material also - Advanced siliceous host rocks - with tr-1% debris py in quantity and - some siliceous fragments (?) 	27 PPS
426		↓	Same as 5425	17 PPS
427		WEST LAKE FAULT ON N. SHORE OF LAKE VICTORIA	<ul style="list-style-type: none"> - Grit from 1m quartz boulder on - W. side of < 1m wide gully-like - N. nearly host volcanic and fine - material - limited amount 	2 PPS
428			<ul style="list-style-type: none"> - 2 m chip across part of fault zone - siliceous and calcite - TR 1% - siliceous fragments 	3 PPS
429			- PPS on road, only 2 m from west	3 PPS

SAMPLE NUMBER	PROPERTY	SHOWING OR LOCATION	SAMPLE DESCRIPTION	ASSAY + COMMENTS
30	Hendock Creek	N. shore of Lake Victoria near Mt. Langford	Similar material as 8428 and 8429 in chip from overgrown pit. Matrix chlorite rich with abundant carbonate	14 PPS
31			Small bone 2cm wide with inclusions approx N-S with banding quartz and 1-2% PY - in several dark green thin veils. Inclusions	2 PPS
32			Grab from large quartz float around PT sample 8930 was taken from all PY surrounded carbonates and chlorite inclusions	5 PPS
33			Composite chip about 3cm around rim of mafic volcanic or dioritic host with minor quartz veins TT CPY and PY 1 minor Alkalic hematite veins	N/A
34			Composite chip grab across 1/2m of a N-S trending -thrust zone. Varieties of mafic rock & carbonates rich in PY. rusty appearance of weathered	2 PPS

SAMPLE NUMBER	PROPERTY	SHOWING OR LOCATION	SAMPLE DESCRIPTION	ASSAY + COMMENTS
35	MURRAY CREEK	TRAVERSE IN MURRIETTE ARMED TWP LINE	1 1/2 m Chip Sample across shallow rusty chloride siliceous mafic volcanic abundant cb oxidation & chlorite host Tr. Py - 6 Carb. visible post-d. sample Tr. cpy!	MS - LEADING TRUNCH 48 PPS
36		↓	Composite grab of V. siliceous and chlorite rusty siliceous schist - perovskite carbonate alteration 1-2% dist. in. Py Shale trunche 055° Dip - Vertical	Overgrown trunche area 2 PPS
37		Trunche on Box map #2 (Kernan) west showing	Composite grab of oxidation trunche with quartz veins in host siliceous fine to medium grained mafic volcanic flow (?) with 5% quartz & clinopy. No carbonates; minor perovskite. Tr. cpy in situ.	acc. of old truncheing 5 PPS
438		↓	- anal. sample of matrix ground with quartz & minor siliceous trunche Tr. cpy - matrix chloride host inclusions	NIL } both samples are 1/2 m of them material (total)
439		↓		NIL

SAMPLE NUMBER	PROPERTY	SHOWING OR LOCATION	SAMPLE DESCRIPTION	ASSAY + COMMENTS (Au - ppb)
45	Mudblock Crack	S.W. Crease of Mudblock Crack Box #1 map Traverse in Traverse	great sample of thin warty Rhyolite (?) band below conglomerate and could also be Rhyolite breccia (?) conglomerate - Not large amount of exposure	6ppb.
46		Hogwax shaft.	warty white matrix brecciated quartz - rubble from dump exposed shaft 3-5% cubic py	69ppb
47		Diamond drilling by Resana Resources 1979	Hole LM-79-3 389-394 red green volcanic breccia (?) in black graphite and siliceous black matrix 5% py in matrix and remaining unbrecciated fragments	19ppb.
48			Same as 8447 Hole LM-79-3 378-381	8ppb
49			Hole LM-79-4 267-268 graphitic fault zone 1.2% nodules and clastic py.	15ppb

SAMPLE NO.	PROPERTY	SHOWING OR LOCATION)	SAMPLE DESCRIPTION	ASSAY + COMMENTS
65	Mudstone crack	Serrano near Serrano (Serrano)	area of quartz conglomerate matrix, which with 10% calc and 10% clay	- Same property 11PPB.
66		ROSMIO RES 114 near drilling	Narrow (consolidated flat lying quartz vein in the mafic volcanic flow top breccia (hyaloclastite)	10PPB A ₄
67			Subvolcanic mafic UCL - hyaloclastite w/ 5% diatom PY.	13PPB A ₄



CL
982329

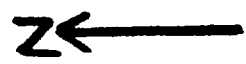
Victoria
Lake

821663-1
821668-4
821669-1
821669-4
821659-1

M1CB

1:2500

Pamorex Minerals Inc.
Sample Location Map
after Brex Exploration
1988
CL
982330
scale 1:2500
metric



CL
982328

poplar

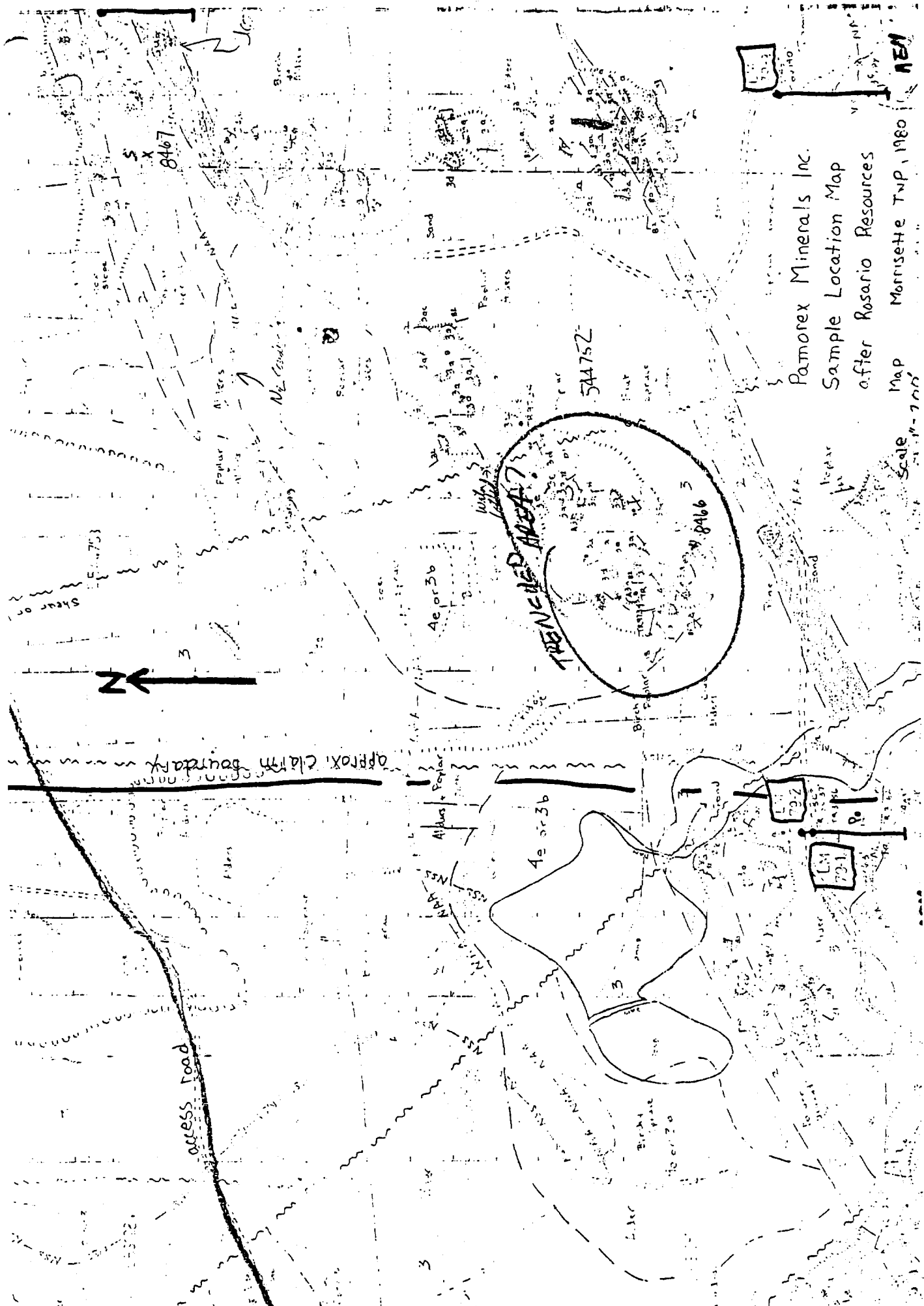
8137
8138
8139
8140
8141
8142

982327

McTavish
Lake

821671-1
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821673-2
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821675-1
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821677-1

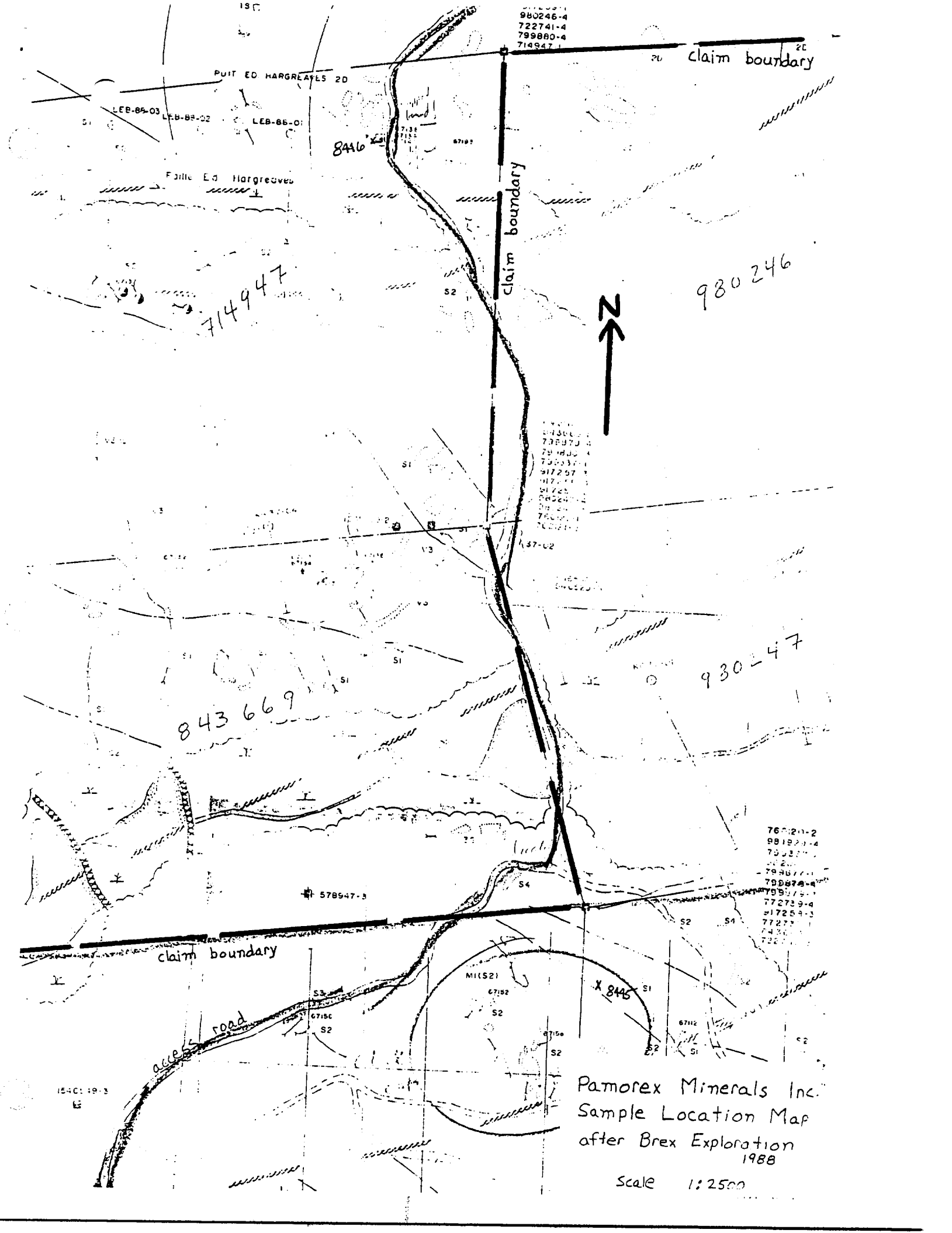
c/c



Patomex Minerals Inc.
 Sample Location Map
 after Rosario Resources
 Map Morrisette Twp, 1980

Scale 1:10000

AEM



980246-4
722741-4
799860-4
714947-1

PUIT ED HARGREAVES 2D

LEB-85-03 LEB-85-02 LEB-86-01

Failla Ed Hargreaves

claim boundary

claim boundary

714947

980246



738970
738971
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578547-3

claim boundary

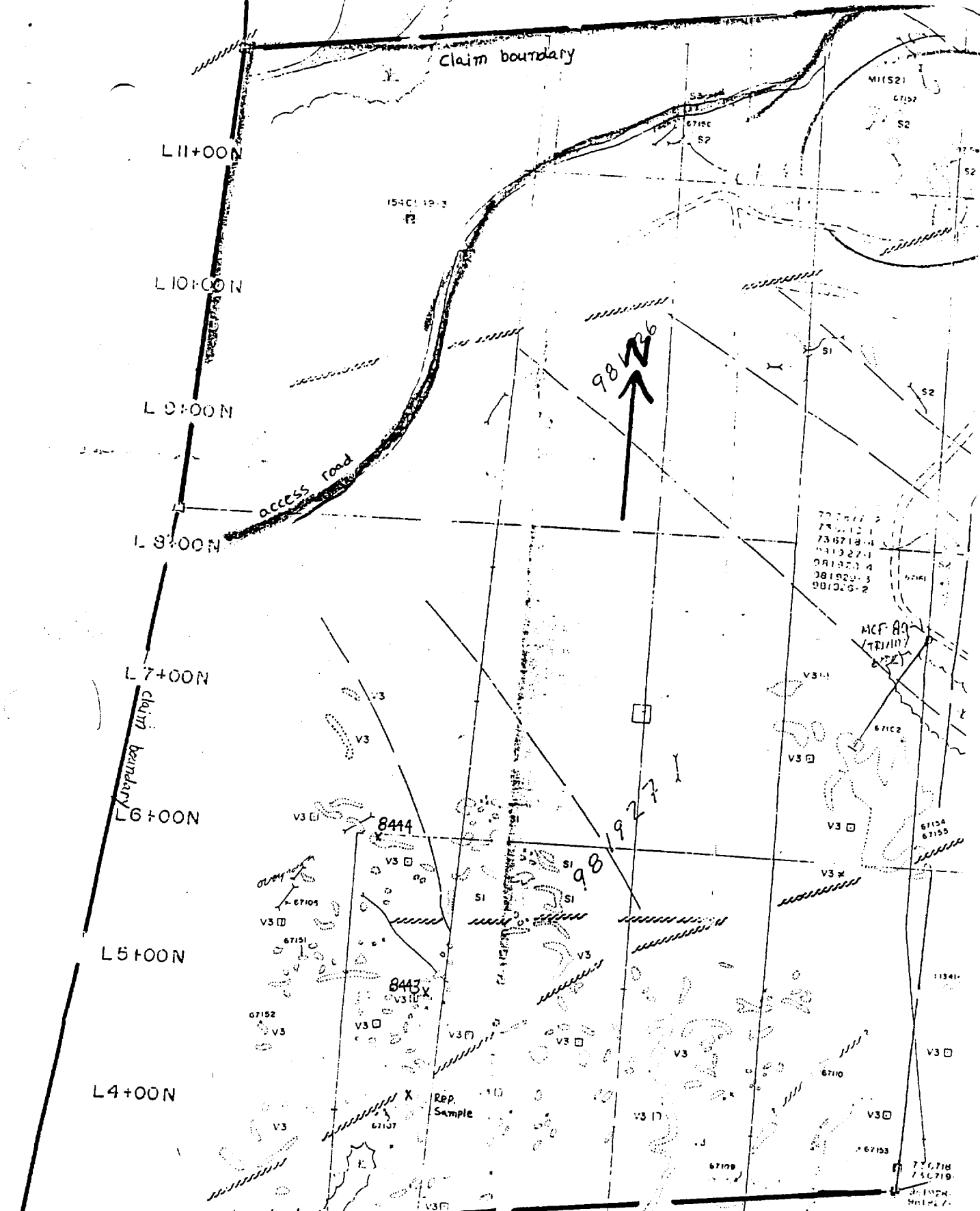
access road

X 8445

Pamorex Minerals Inc.
Sample Location Map
after Brex Exploration
1988

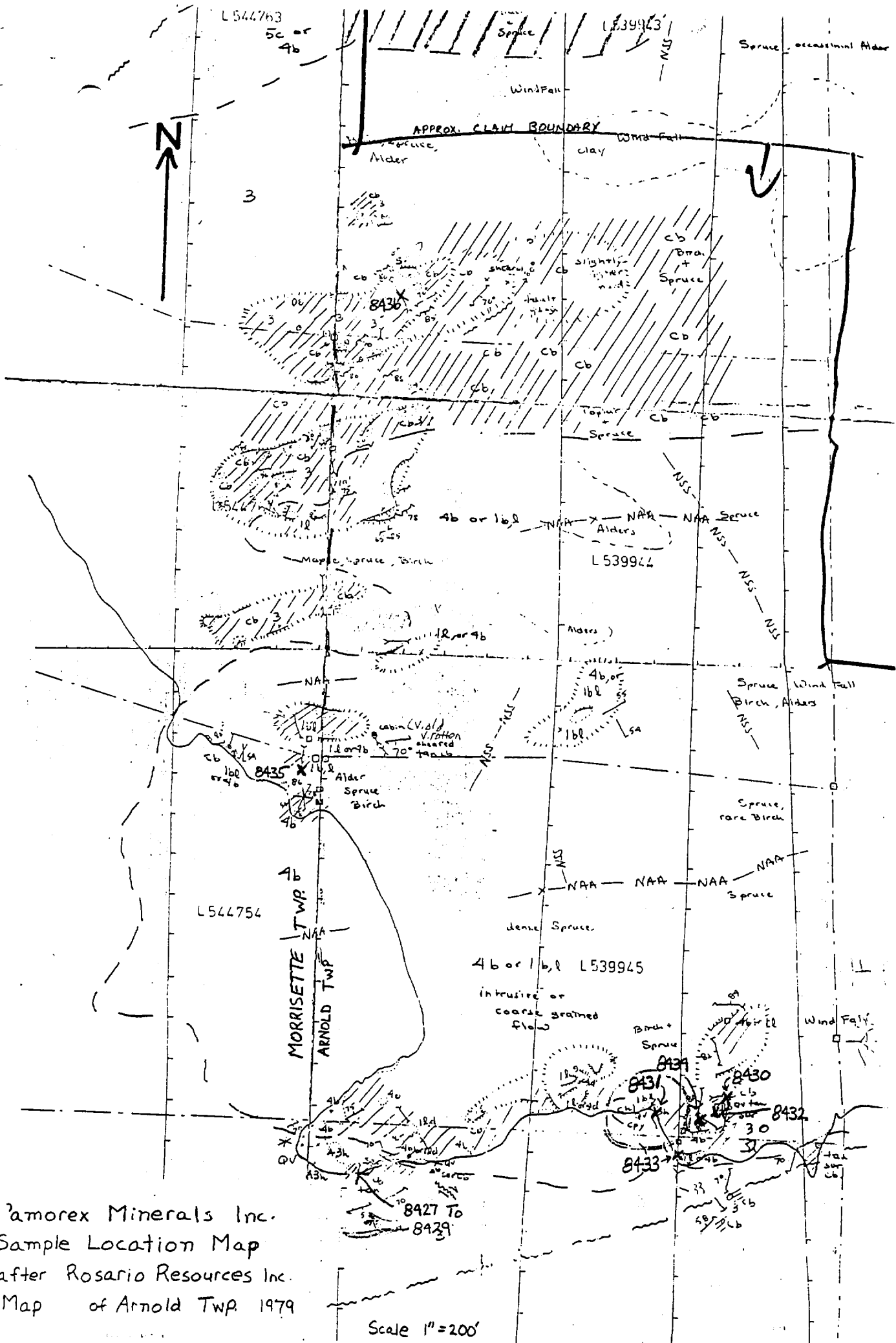
Scale 1:2500

154C: 19-3
E



Pamorex Minerals Inc.
 Sample Location Map
 after Brex Exploration Inc
 1988

Scale 1:2500



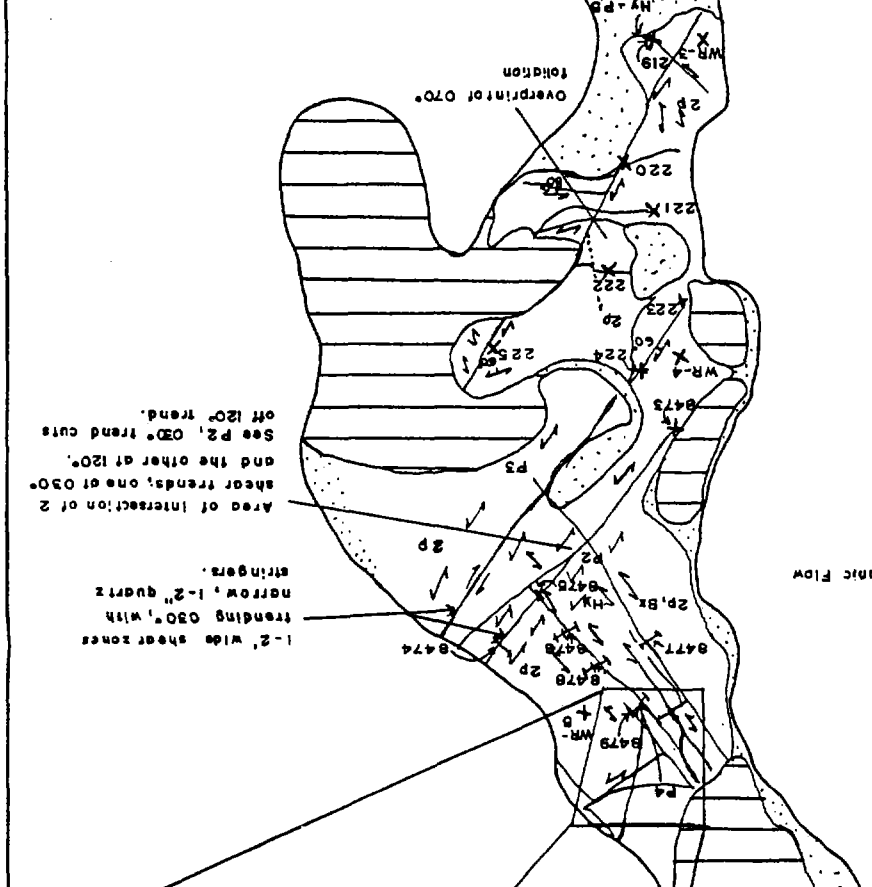
Lamorex Minerals Inc.
 Sample Location Map
 after Rosario Resources Inc.
 Map of Arnold Twp. 1979

Scale 1" = 200'

APPENDIX #4

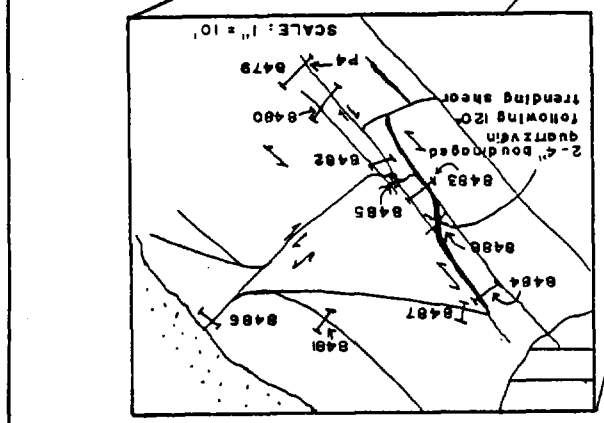
PAMOREX MINERALS INC.
 OF THE
 RONAL RED LAKE
 STRIPPED AREA
 SCALE: DATE DRAWN, DRAWN BY:
 1"=20' AUG. 1990 B.L.

0 20 40
 FEET



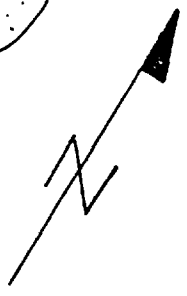
- P1 Photo Location
- X Sample Location
- Foliation, Foliation with dip
- Hy Hydroclastic Texture
- Bx Brecciated Texture
- Water
- Overburden
- Zp Tholeiitic Pillowed Mafic Volcanic Flow (Kinojeve's Group)

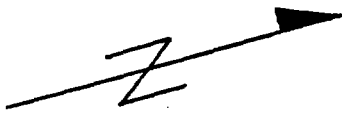
LEGEND



SM	Au check	Au 2nd Au check	Ag	Cu	Pb	Zn
8473			0.2	1	108	22
8474						21
8475						22
8476						21
8477						22
8478						21
8479						22
8480						21
8481						22
8482						21
8483						22
8484						21
8485						22
8486						21
8487						22
8488						21
8489						22
8490						21
8491						22

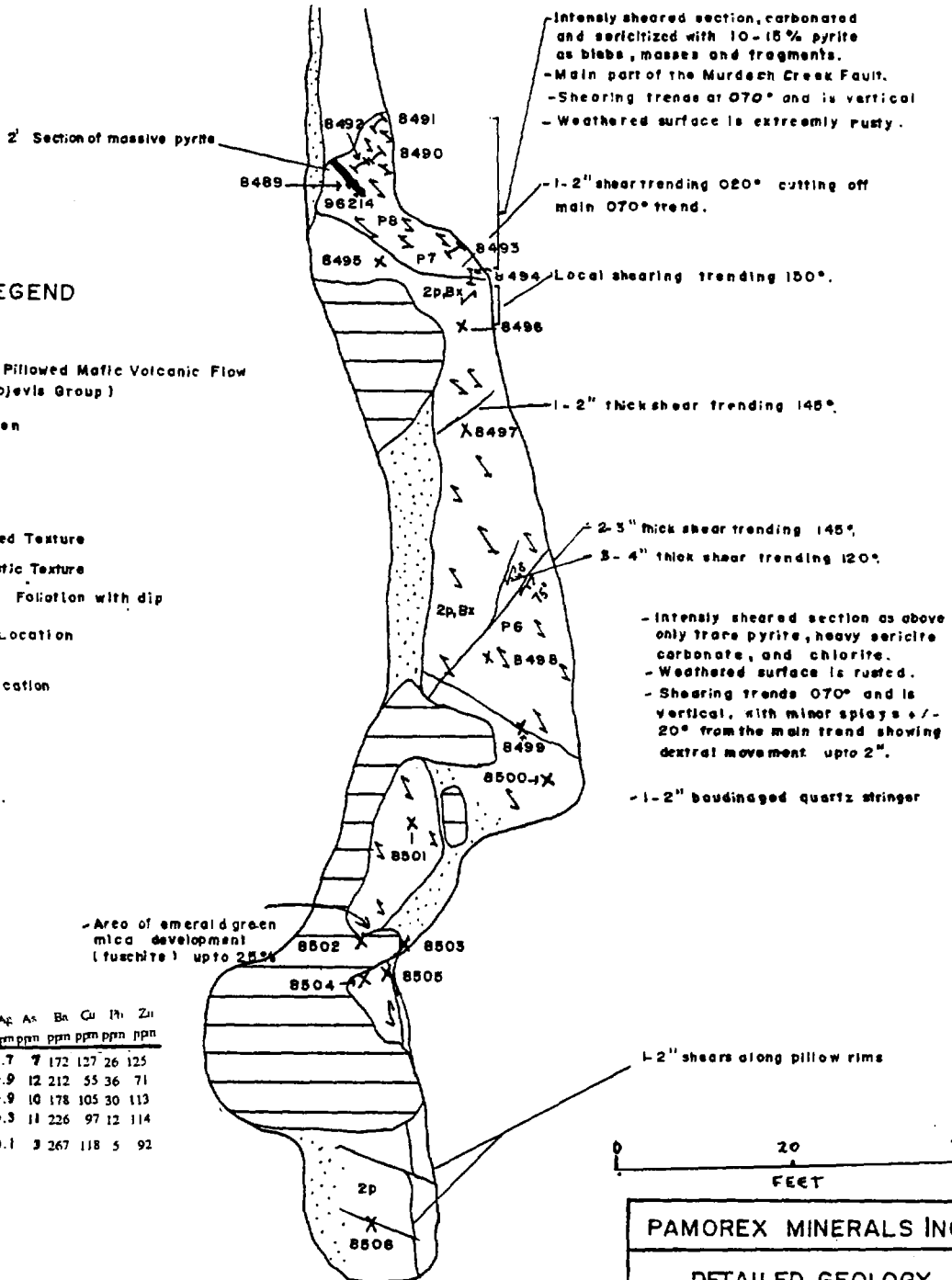
96225	7
96224	19
96223	40
96222	33
96221	7
96220	31
96219	27
96218	720
96217	686
96216	15
96215	19
96214	43
8488	199
8487	15
8486	273
8485	55
8484	213
8483	106
8482	521
8481	29
8480	1371
8479	4320
8478	31
8477	62
8476	1035
8475	789
8474	38
8473	257





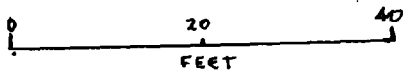
LEGEND

- 2p Tholeiitic Pillowed Mafic Volcanic Flow (Kinojevis Group)
- Overburden Overburden
- Water Water
- Bx** Brecciated Texture
- Hy** Hyaloclastic Texture
- Foliation, Foliation with dip
- X** Sample Location
- Pl** Photo Location



Sample Number	Au ppb	Au check ppb	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Zn ppm
8489	30		0.7	7	172	127	26	125
8490	113	204	0.9	12	212	55	36	71
8491	142		0.9	10	178	105	30	113
8492	17		0.3	11	226	97	12	114
8493	104		0.1	3	267	118	5	92
8494	54							
8495	87							
8496	55							
8497	115							
8498	130							
8499	7							
8500								
8501	51							
8502	19							
8503	2							
8504	33							
8505	55							
8506	77	69						

Sample Number	Au ppb	Ag ppm	Cu ppm
96214	53/57	0.7	153



PAMOREX MINERALS INC.

**DETAILED GEOLOGY
OF THE
MURDOCH CREEK
STRIPPED AREA**

SCALE: 1"=20'	DATE DRAWN: AUG, 1990	DRAWN BY: B.L.
------------------	--------------------------	-------------------

APPENDIX #5
LIST OF CLAIMS

<u>CLAIM NUMBER</u>	<u>TOWNSHIP</u>
981926-981938	Lebel
982318-982337	Lebel
1111536-1111537	Lebel
982338-982342	Morrisette
982346	Morrisette
1111524-1111525	Morrisette
1111913-1111919	Morrisette
1111924-1111932	Morrisette
1137044	Morrisette
1111920-1111923	Arnold



MORRISETTE CREEK

W.P.

L1137044

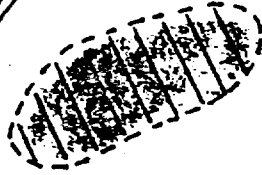
L1111914

OLD DRILL ROAD

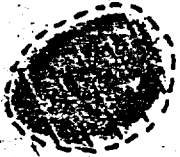
TO HWY 672

L1611117

L1111915

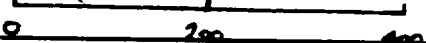


MURDOCH CREEK STRIP AREA



RANAL STRIP AREA

SCALE IN FEET

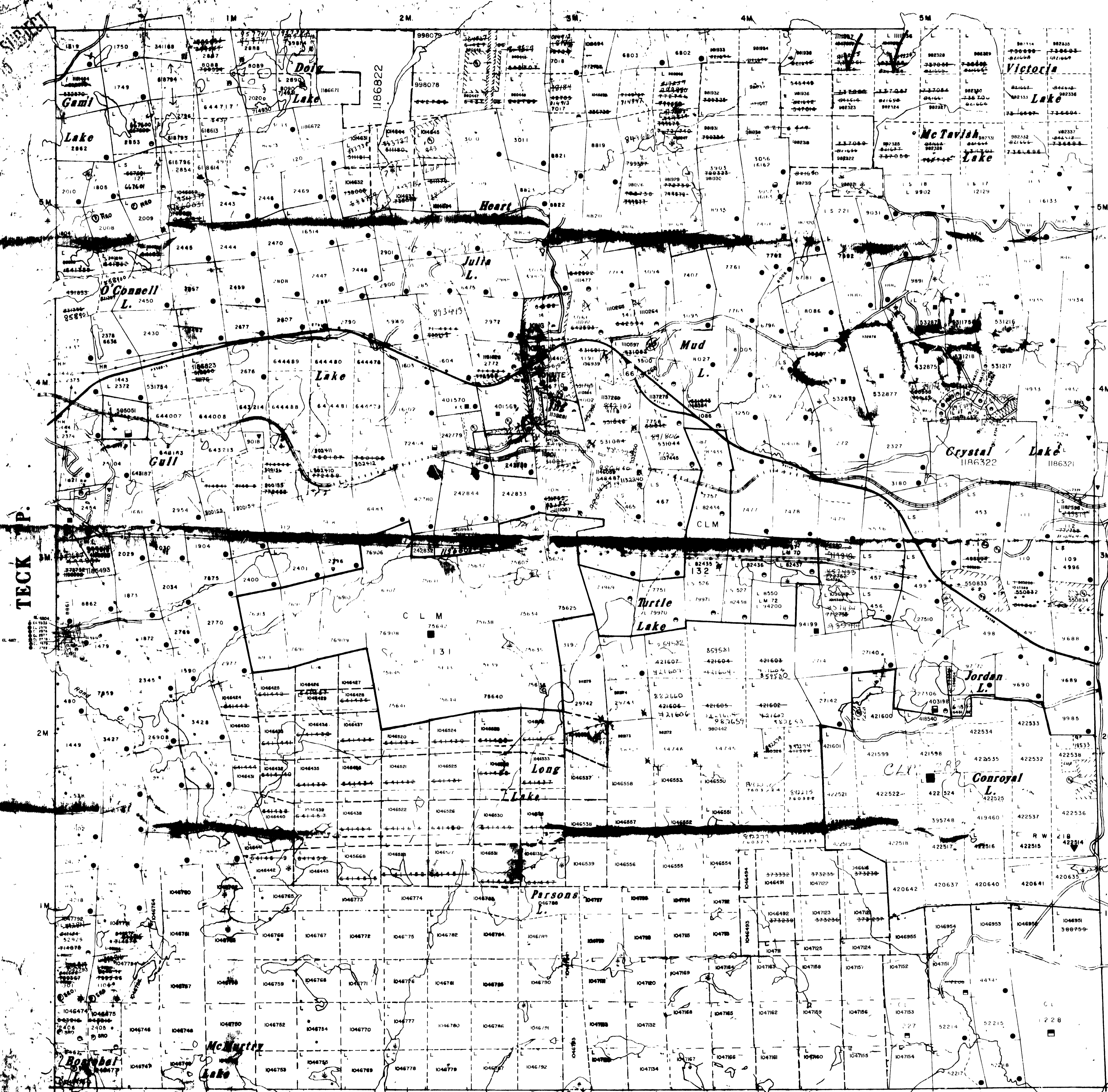


PAMOREX MINERALS INC.

TITLE
MURDOCH CREEK PROPERTY
AREAS OF POWER STRIPPING-1990

SCALE DATE DRAW. No.

MORRISSETTE TP.



REFERENCES

TOPOGRAPHY
LAKES AND RIVERS ETC. FROM FOREST RESOURCES INVENTORY SHEETS 481794, 481801, 482794, 482801

SURVEYS
FIELD NOTE BOOKS, 2450, 2665, 3341, 3829
P.LANS, 104-11, 105-15, 106-30, 1080-15, 102-4, 106-14, 104-10, 104-23, 104-2, 105-41, 105-46

HIGHWAYS
HIGHWAYS THROUGH CROWN LANDS FROM MINISTRY OF TRANSPORTATION AND COMMUNICATIONS SURVEY PLANS AS NOTED.

AREAS WITHDRAWN FROM DISPOSITION

S.R. - SURFACE RIGHTS		M.R. - MINING RIGHTS	
Description	Order No.	Date	Disposition
①		20/10/69	S.R. 165486
②		10/10/62	M.R.O.
③		10/10/62	M.R.O.
④			164586

SAND AND GRAVEL

- ① GRAVEL FILE 38581
- ② GRAVEL FILE 8816
- ③ M.T.C. GRAVEL PIT NO. 15
- ④ GRAVEL FILE 29795
- ⑤ GRAVEL FILE 42354
- ⑥ GRAVEL FILE 105110

SURFACE RIGHTS WITHDRAWN FROM STAKING

- ⑦ MINING AND SURFACE RIGHTS WITHDRAWN FROM STAKING
ORDERS W-9/86 AND W-50/86 (except L 548487)
Repealed by Order: O-64/86 NR
O-39/87 NR
O-18/88 NR

MINING AND SURFACE RIGHTS WITHDRAWN FROM STAKING

- ⑧ MINING AND SURFACE RIGHTS WITHDRAWN FROM STAKING
ORDER W-22/88
Repealed by Order: O-14/89

DATE OF ISSUE
OCT 2 1992
LANDER LAKE
MINING DIVISION

LEGEND

- HIGHWAY AND ROUTE NO.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIP, 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 COODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

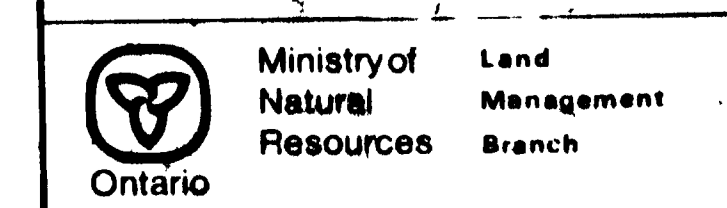
TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	●
SURFACE RIGHTS ONLY	○
MINING RIGHTS ONLY	◐
LEASE SURFACE & MINING RIGHTS	◑
SURFACE RIGHTS ONLY	◒
MINING RIGHTS ONLY	◓
LICENCE OF OCCUPATION	○
ORDER IN COUNCIL	OC
RESERVATION	○
CANCELLED	○
SAND & GRAVEL	○

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 4 1913 VESTED IN ORIGINAL PATENTEES BY THE PUBLIC LANDS ACT R.S.O. 1970, CHAP. 380 SEC. 63 SUBSEC. 1

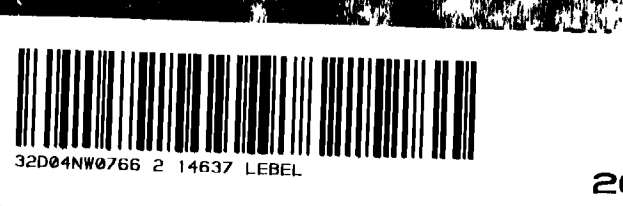
SCALE: 1 inch = 20 chains

TOWNSHIP

LEBEL
M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE
MINING DIVISION
LAND TITLES / REGISTRY DIVISION
TIMISKAMING

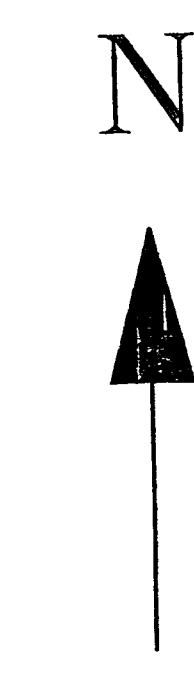


THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES. NO WARRANTY IS MADE AS TO THE ACCURACY OF THE INFORMATION. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE CROWN LANDS HEREIN.



MORRISETTE

ARNOLD



LEGEND

ANALYSIS FOR THE STRIPPED AREA

CTL WEST

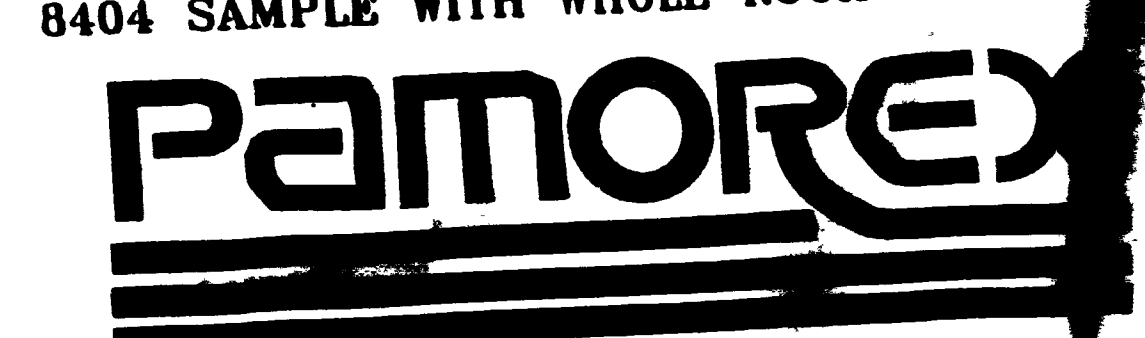
SAMPLE NUMBER	Au ppb
96201	5
96202	31
96203	3
96204	7
96205	17/15
96206	22
96207	12/15
96208	19
96209	3
96210	7
96211	29/21
96212	15
96213	5

RONAL RED LAKE

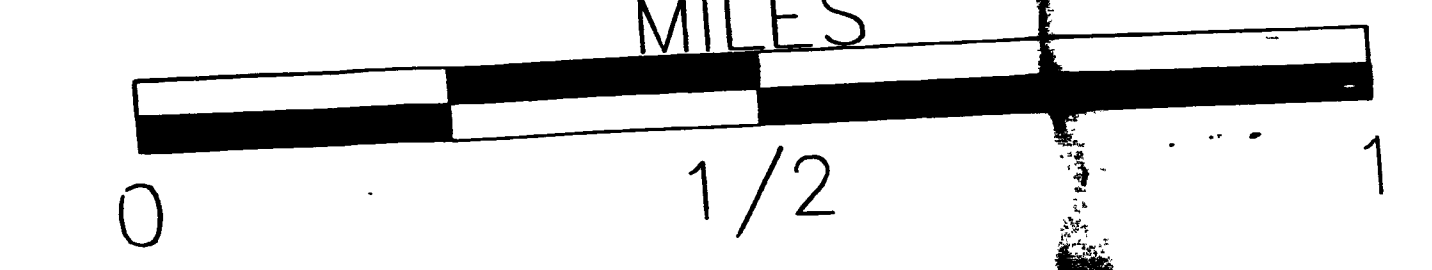
SAMPLE NUMBER	Au ppb	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Zn ppm
8473	257	0.2	1	108	25	21	22
8474	38						
8475	943						
8476	1035						
8477	62						
8478	31						
8479	5374						
8480	1371						
8481	29						
8082	521						
8083	106						
8084	213						
8085	55						
8086	222						
8087	15						
8088	199						
96215	43						
96216	19						
96217	15						
96218	703						
60219	27						
96220	31						
96221	7						
96222	33						
96223	40						
96224	17						
96225	7						

SAMPLE NUMBER	Au ppb	Ag ppm	As ppm	Ba ppm	Cu ppm	Pb ppm	Zn ppm
8489	30	0.1	7	172	17	26	125
8490	159	0.9	12	211	15	36	71
8491	112	0.9	10	178	165	30	113
8492	17	0.3	11	226	97	12	114
8493	104	0.1	3	267	118	5	92
8494	51						
8495	67						
8496	55						
8497	115						
8498	130						
8500	7						
8501	34						
8502	51						
8503	19						
8504	2						
8504	33						
8505	55						
8506	74						
96214	53/57	0.7					

wr-6 DENOTES WHOLE ROCK ANALYSES
 X 8445-6 DENOTED 6 ppb Au
 * 8404 SAMPLE WITH WHOLE ROCK ANALYSIS



SCALE: 1:10,000



GEOLOGY BY: B. Leonard
 DRAWN BY: L. Robitaille
 DATA CHECKED BY:
 DATE: Sept. 21, 1990

Drawing No. 70

Morrisette Lake

Morrisette

MORRISETTE CREEK

MURDOCH CREEK STRIPPED AREA

RONAL RED LAKE STRIPPED AREA

Victoria Lake

McTavish Lake

Heart Lake

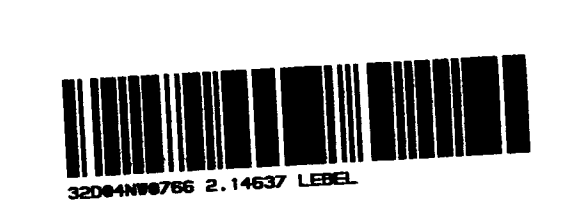
King Kirkland

Mud Lake

Crystal Lake

LEBEL

GAUTHIER



220

