



42A02NW0023 2.10244 FALLON

010

Diamond Drilling Core Logs
and Geochemical
Analysis Tables.

1987

SLUDGE

RECEIVED

JUL 28 1987

MINING LANDS SECTION



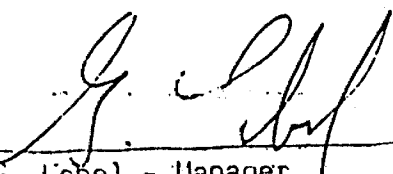
SWASTIKA LABORATORIES LIMITED

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

Certificate of Analysis

Certificate No. 63766 Date: July 31st, 1986
Received July 23rd, 1986 51 Samples of Sludge
Submitted by Lac Minerals Ltd., (Exploration Div.) Kirkland Lake, Ontario

SAMPLE NO.	GOLD FPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
86-96	10/10	256-266	Nil	42-436	Nil
96-106	Nil	266-276	Nil	436-446	Nil
106-116	Nil	276-286	Nil	446-456	Nil
116-126	Nil	286-296	Nil	456-466	Nil
126-136	Nil	296-306	Nil	466-476	Nil/10
136-146	Nil	306-316	10	606-616	Nil
146-156	10	316-326	10	616-626	70
156-166	10	326-336	10	626-636	Nil
166-176	Nil	336-346	10	636-646	Nil
176-186	10	346-356	10/Nil	646-656	Nil
186-196	Nil	356-366	Nil	656-666	Nil
196-206	Nil/10	366-376	Nil	666-676	10
206-216	Nil	376-386	Nil	676-686	Nil
216-226	Nil	386-396	Nil	686-696	Nil
226-236	Nil	396-406	Nil	696-706	Nil
236-246	Nil	406-416	Nil	706-716	Nil
246-256	Nil	416-426	Nil	716-726	Nil

Per 
G. Lebel - Manager



SWASTIKA LABORATORIES LIMITED

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TELEPHONE: (705) 642-3244
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Certificate of Analysis

Certificate No. 63888

Date: August 12th, 1986

Received August 5th, 1986 20 Samples of Sludge

Submitted by Lac Minerals Ltd., (Exploration Div.), Kirkland Lake, Ontario

Attention: Mr. Chris Pegg

	SAMPLE NO.	GOLD PPB
LF-86-01	476-486	Nil
	486-496	Nil
	496-506	Nil
	516-526	10/Nil
	526-536	Nil
	536-546	Nil
	546-556	Nil
	556-566	Nil
	566-576	Nil
	576-586	Nil
	586-596	Nil
	596-606	10
	726-736	Nil
	736-746	Nil
746-756	30/Nil	
LF-86-02	756-766	Nil
	766-770	Nil
	16-26	Nil
	26-36	Nil
	36-46	Nil

Per

G. Lebel
G. Lebel - Manager



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

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Certificate of Analysis

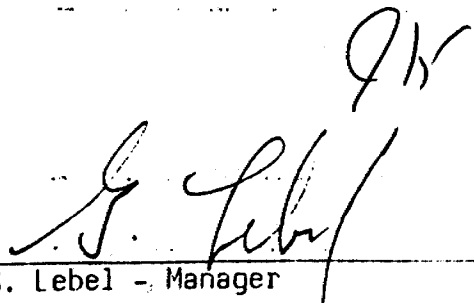
Certificate No. 64079

Date: August 29th, 1986

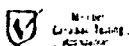
Received August 20th, 1986 33 Samples of Sludge

Submitted by Lac Minerals Ltd. (Exploration Div.), Kirkland Lake, Ontario

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
LF-86-04			
36-46	10	206-216	Nil
46-56	20/30	216-226	Nil
56-66	Nil	226-236	Nil
66-76	Nil	236-246	Nil
76-86	Nil	246-256	Nil
86-96	10	256-266	Nil
96-106	Nil	266-276	Nil/Nil
106-116	Nil	276-286	Nil
116-126	Nil	286-296	Nil
126-136	Nil	296-306	Nil
136-146	20/Nil	306-316	Nil
146-156	Nil	316-326	Nil
156-166	Nil	326-336	Nil
166-176	Nil	336-346	Nil
176-186	Nil	346-356	Nil
186-196	Nil	356-366	Nil
196-206	Nil		

Per 
G. Lebel - Manager

ESTABLISHED 1928





SWASTIKA LABORATORIES LIMITED

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

Certificate of Analysis

Certificate No. 64112

Date: September 4th, 1986

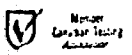
Received August 29th, 1986 40 Samples of Sludge

Submitted by Lac Minerals Ltd., (Exploration Div.), Kirkland Lake, Ontario

Attention: Mr. Chris Pegg

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
LF-86-05			
166-176	Nil	386-396	Nil
176-186	Nil	396-406	Nil
186-196	10/20	406-416	Nil
196-206	Nil	416-426	Nil
206-216	Nil	426-436	Nil
216-226	10	436-446	Nil
226-236	Nil	446-456	Nil
236-246	Nil	456-466	Nil
246-256	Nil	466-476	Nil
256-266	Nil	476-486	Nil
266-276	Nil	486-496	Nil
> 296-306	Nil	> 496-506	Nil
306-316	10	526-536	Nil
316-326	Nil	536-546	Nil
326-336	Nil	546-556	20
336-346	Nil	556-564	10
346-356	Nil	564-576	30/100
356-366	Nil	576-586	20
366-376	20/30	586-594	30
376-386	Nil	No Tag.	10

Per G. Lebel
G. Lebel - Manager



CORE

6



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0
TELEPHONE: (705) 642-3244
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Certificate of Analysis

Certificate No. 64071

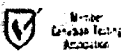
Date: August 29th, 1986

Received August 25th, 1986 52 Samples of Split Core

Submitted by Lac Minerals Ltd., (Exploration Div.), Kirkland Lake, Ontario

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
P-6501	Nil	P-6519	Nil	P-6537	Nil
6502	Nil	6520	Nil	6538	Nil
6503	Nil	6521	Nil	6539	Nil
6504	Nil/Nil	6522	Nil	6540	Nil
6505	Nil	6523	Nil	6541	Nil
6506	Nil	6524	Nil	6542	Nil
6507	Nil	6525	Nil	6543	Nil
6508	Nil	6526	Nil	6544	Nil
6509	Nil	6527	Nil	6545	Nil
6510	Nil	6528	Nil	6546	Nil/Nil
6511	Nil	6529	Nil	6547	Nil
6512	Nil	6530	50/70	6548	Nil
6513	Nil	6531	40/50	6549	Nil
6514	Nil	6532	10	6550	Nil
6515	Nil	6533	10	6551	Nil
6516	Nil	6534	Nil	6552	Nil
6517	Nil/10	6535	Nil		
6518	Nil	6536	20		

Per G. Lebel
G. Lebel - Manager





SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 66761

Date: June 8, 1987

Received June 4, 1987 32 Samples of Split Core

Submitted by Lac Minerals Ltd., (Exploration Division) Kirkland Lake, Ont.

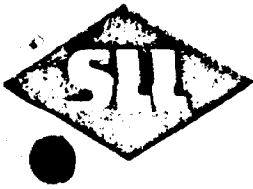
ATTENTION: Mr. Chris Pegg

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
R-7153	Nil	R-7169	Nil
7154	Nil	7170	10
7155	Nil	7171	Nil
7156	Nil	7172	10/Nil
7157	Nil	7173	Nil
7158	Nil	7174	Nil
7159	Nil	7175	Nil
7160	Nil/Nil	7176	Nil
7161	Nil	7177	Nil
7162	Nil	7178	Nil
7163	Nil	7179	Nil
7164	Nil	7180	Nil
7165	Nil	7181	Nil
7166	Nil	7182	Nil/Nil
7167	Nil	7183	Nil
7168	Nil	7184	Nil

Per *G. Lebel* *PN*

G. Lebel - Manager

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SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 64096

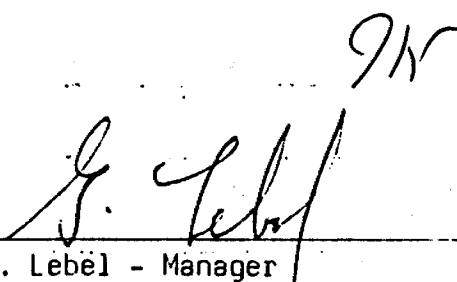
Date: September 3rd, 1986

Received August 27th, 1986 41 Samples of Split Core

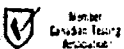
Submitted by Lac Minerals Ltd., (Exploration Div.), Kirkland Lake, Ontario

Attention: Mr. C. Pegg

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
P-6553	Nil	P-6574	Nil
6554	Nil	6575	Nil
6555	Nil	6576	Nil
6556	Nil	6577	Nil
6557	Nil	6578	Nil
6558	Nil	6579	Nil
6559	Nil	6580	10/10
6560	Nil/10	6581	Nil
6561	Nil	6582	Nil
6562	Nil	6583	Nil
6563	Nil	6584	Nil
6564	Nil	6585	Nil
6565	Nil	6586	Nil
6566	Nil	6587	Nil
6567	Nil	6588	Nil
6568	Nil	6589	Nil
6569	Nil	6590	Nil
6570	Nil	6591	Nil/10
6571	10/10	6592	Nil
6572	10	6593	Nil
6573	Nil		

Per 
G. Lebel - Manager

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SWASTIKA LABORATORIES LIMITED

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

Certificate of Analysis

Certificate No. 66062

Date: March 24, 1987

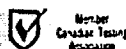
Received March 16, 1987 51 Samples of Split Core

Submitted by Lac Minerals Limited, Kirkland Lake, Ontario

SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
7105	20/Nil	7122	Nil	7139	Nil
7106	Nil	7123	Nil	7140	Nil
7107	Nil	7124	Nil	7141	Nil/Nil
7108	Nil	7125	Nil	7142	Nil
7109	Nil	7126	Nil	7143	Nil
7110	Nil	7127	Nil	7144	Nil
7111	Nil	7128	Nil	7145	Nil
7112	Nil	7129	Nil	7146	Nil
7113	Nil	7130	Nil	7147	Nil
7114	Nil	7131	Nil	7148	Nil
7115	Nil	7132	Nil/Nil	7149	Nil
7116	Nil	7133	Nil	7150	Nil/Nil
7117	Nil/Nil	7134	Nil	7151	Nil
7118	Nil	7135	Nil	7152	Nil
7119	Nil	7136	Nil		
7120	Nil	7137	Nil		
7121	Nil	7138	Nil		

Per

G. Lebel
9/25



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G. Lebel-Manager



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0

TELEPHONE: (705) 642-3244

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS

Certificate of Analysis

Certificate No. 66028

Date: March 20, 1987

Received March 16, 1987 27 Samples of Split Core

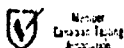
Submitted by Lac Minerals Ltd. (Exploration Division) Kirkland Lake, Ontario.

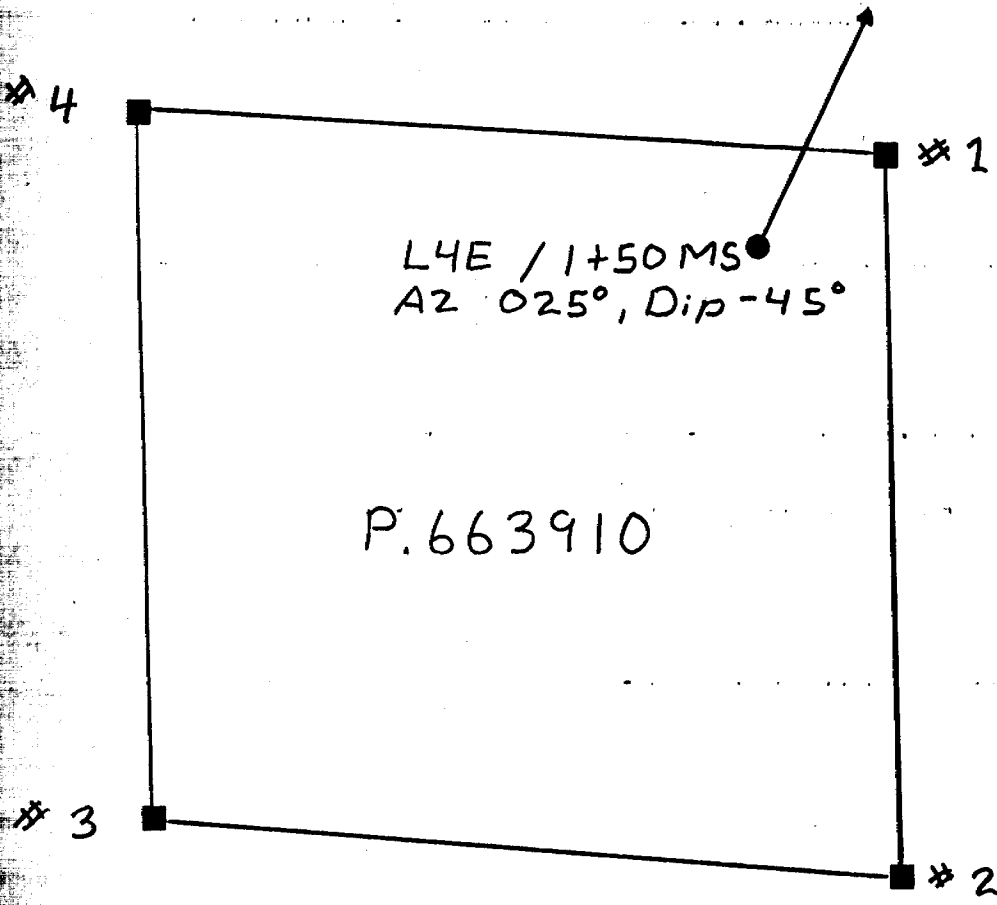
SAMPLE NO.	GOLD PPB	SAMPLE NO.	GOLD PPB
7078	Nil	7098	Nil
7079	Nil	7099	Nil
7080	Nil	7100	Nil
7081	Nil	7101	Nil
7082	Nil	7102	Nil
7083	Nil	7103	Nil
7084	Nil	7104	Nil
7085	Nil		
7086	Nil		
7087	Nil/Nil		
7088	Nil		
7089	Nil		
7090	Nil		
7091	Nil		
7092	Nil		
7093	Nil		
7094	Nil		
7095	Nil		
7096	Nil		
7097	Nil/Nil		

Per


G. Lebel - Manager

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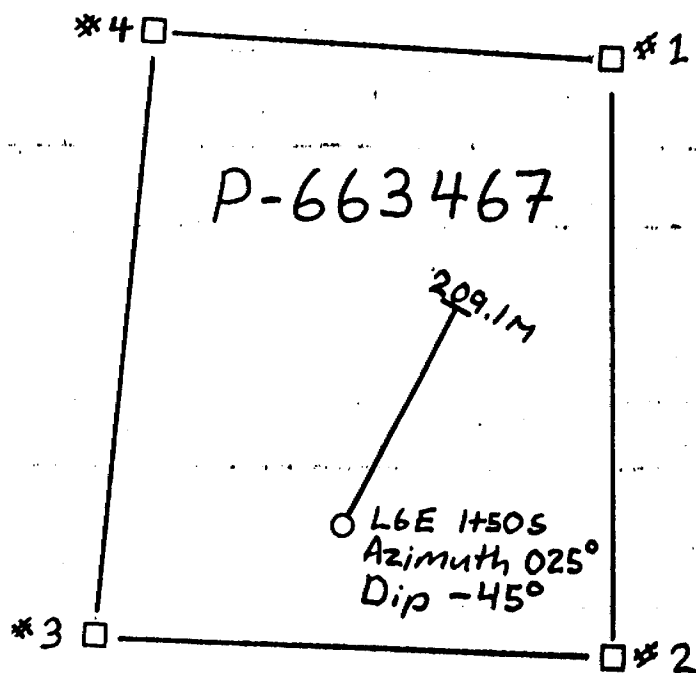


L4E / 1+50MS
AZ 025°, Dip -45°

P.663910

Drill Hole Location Plan
Hole LF-86-01
Fallon Twp. ONT
Scale 1:5,000

JK
JK



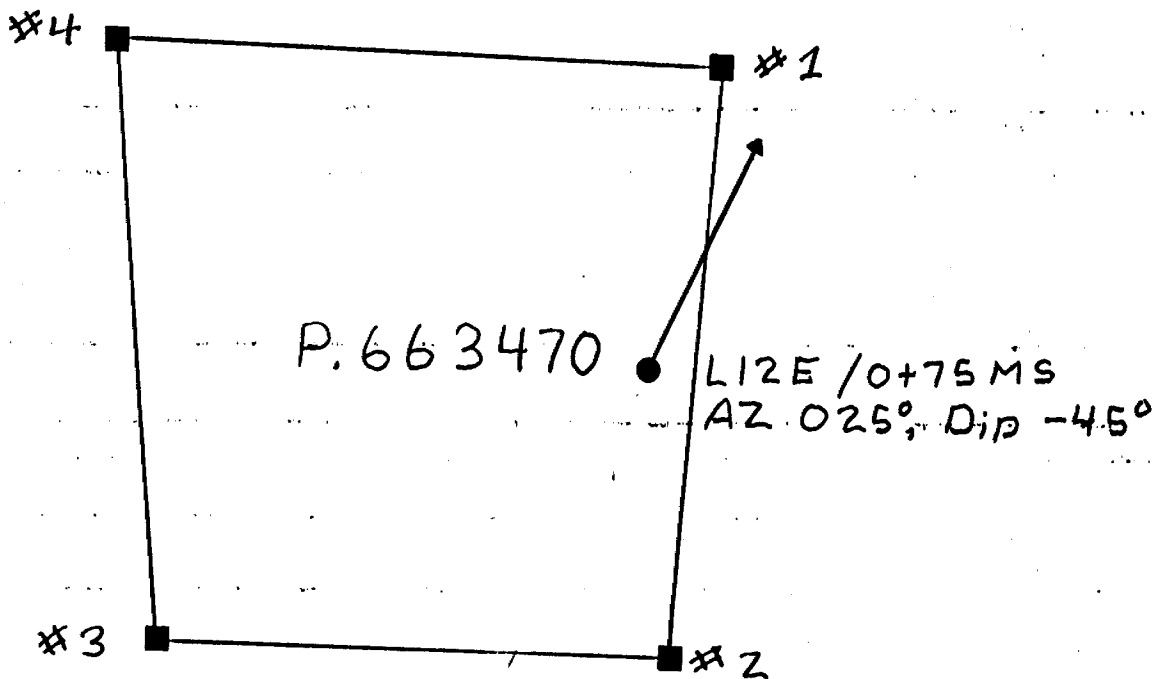
Drill Hole Location Plan

Hole LF-86-02

Fallon Township, Ontario

Scale 1:5000

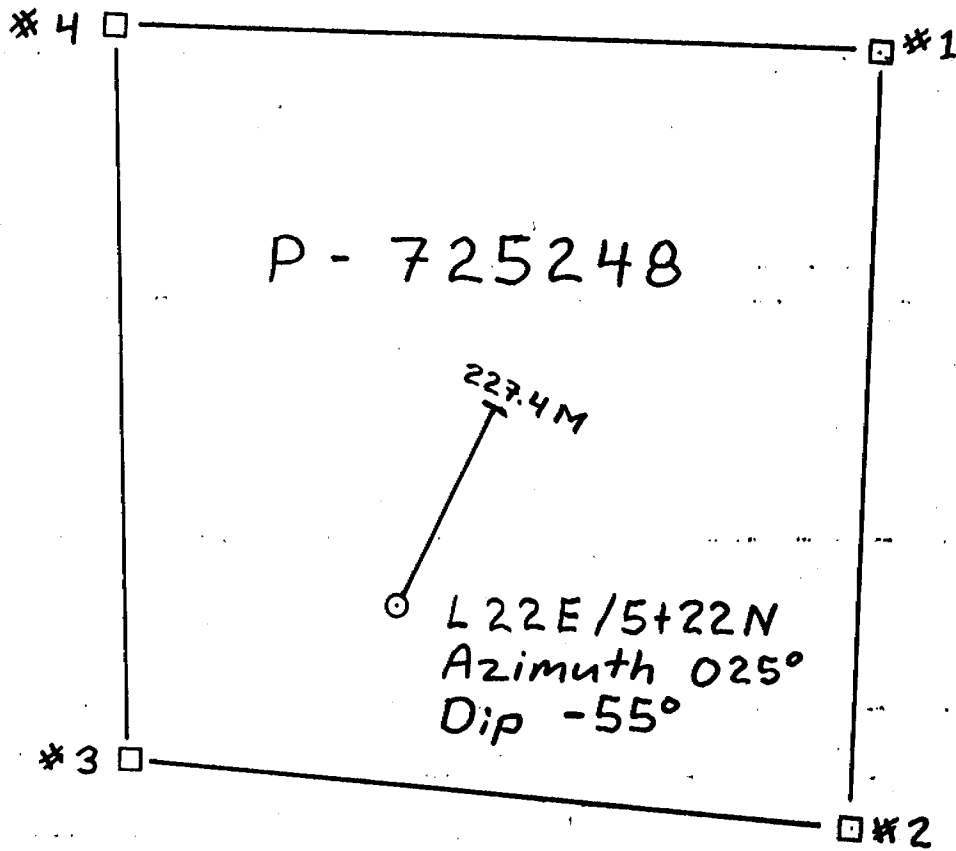
nb



Drill Hole Location Plan
Hole LF-86-03
Fallon Twp ONT
Scale 1:5,000

MB

JK



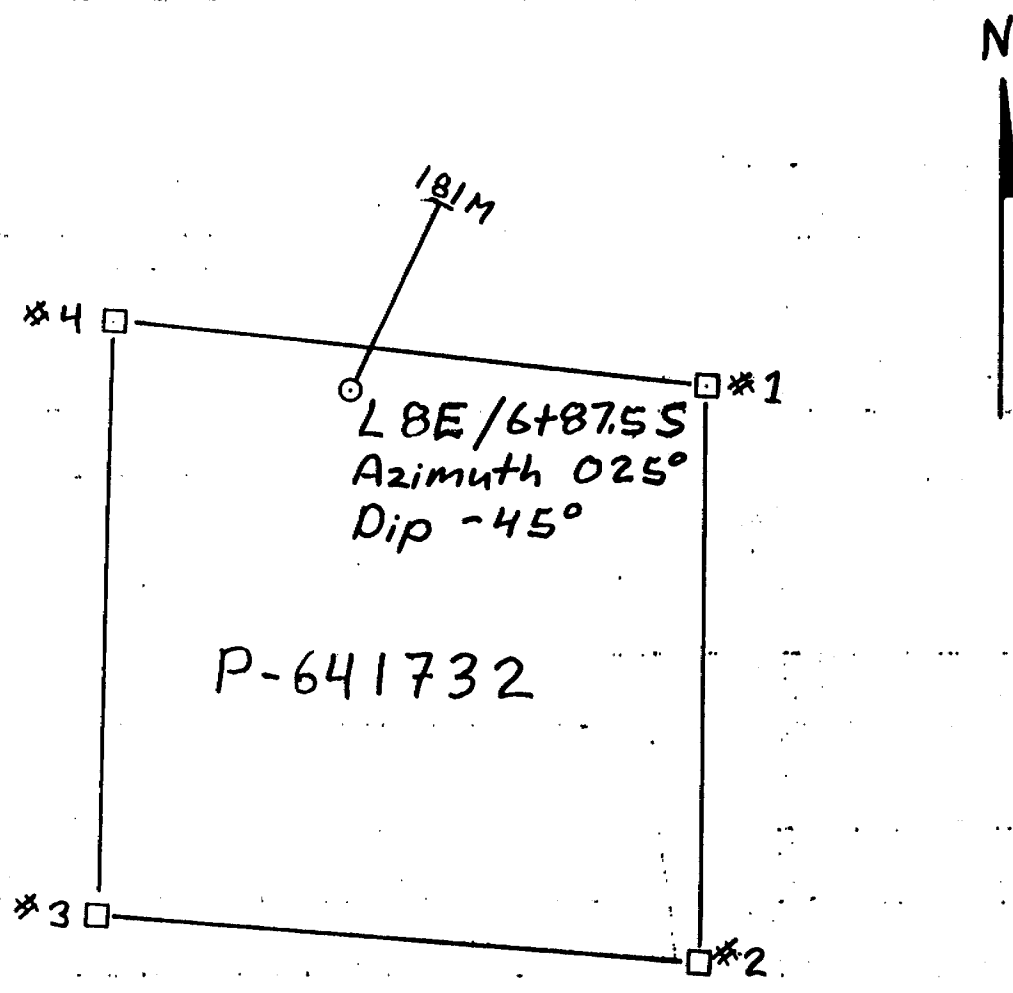
Drill Hole Location Plan

Hole LF-86-04

Fallon Township, Ontario

Scale 1:5000

MB



Drill Hole Location Plan

Hole LF-86-05

Fallon Township, Ontario

Scale 1:5000

10

LAC MINERALS LTD.
91 DUNCAN AVENUE
KIRKLAND LAKE, ONTARIO
P2N 1Y2

PROJECT: Meunier

GENERAL INFORMATION

Type of Hole: DDH

HOLE NUMBER: LF-86-1
PAGE NUMBER: 1
LOGGED BY: J. Kovala
DATE: 29/10/86

LOCATION: Langmuir Township
COLLAR: LATITUDE L14+85E
ELEVATION: COLLAR
LENGTH: 204.0 meters
PURPOSE: I.P., ULF-EM Anomaly
DATE STARTED: 29/10/86

AZIMUTH: 360 DEG.
DEPARTURE: 0+62.5S
BOTTOM:
RECOVERY: 98%
DATE ENDED: 01/11/86
DIP: -45 DEG.
CORE SIZE: BQ

SURVEY DATA

LOCATION	AZIMUTH	DIP	METHOD	REMARKS
0	025	-45		COLLAR
200		-43	A	
400		-39	A	
600		-37	A	

John Kovala

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-01 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE		MAGNETICS			
							AU	1st pulp	2nd pulp		FROM	TO	AU	FROM	TO	MGT.
							ppb	ppb	ppb	ppb	ppb					%
0.00	23.10	OVERBURDEN														
23.10	23.44	MAFIC VOLCANIC - dark grey black, non-magnetic 10 - 20% white 2 -5 mm elongate carbonate altered and rimmed fragments? - alignment of fragments ? parallel to foliation at 45 DEG. to core axis - lower contact irregular altered and sheared at 45 DEG. to core axis along with 2 cm quartz vein containing epidote and <5% py.	P-6501	23.16	24.57	1.40	nil									
23.44	23.84	FELDSPAR PORPHYRY DIKE (MONZONITE) - 1 to 10 mm pink and white feldspar phenocryst in a fine crystalline grey green matrix - 1.5 mm wide fracture 20 DEG. to core axis infilled with pyrite - lower contact sharp at 20 DEG. to core axis														
23.84	28.85	MAFIC VOLCANIC (TUFF - LAPILLI TUFF?) - dark grey green black with possible fragments? 2 to 4 cm in diameter visible from 27.80 m to 28.0 m - fragment? colour and composition is about the same as that of the matrix - carbonate quartz and epidote altered section <10 mm wide throughout - some contain minor pyrite ie. at 29.10 and 29.20 - narrow bleached altered light green grey sections at 25.8 m and 25.9 m - weak foliation 45 DEG. to core axis	P-6502 P-6503	24.57 28.70	25.91 29.57	1.34 1.50	nil nil					26.21 29.26 32.31 35.36 38.40 41.45 44.50 47.55 50.60 53.64 56.69 59.74 62.79 65.84	29.26 32.31 35.36 38.40 41.45 44.50 47.55 50.60 53.64 56.69 62.79 65.84	10 nil nil nil nil nil 10 10 nil nil nil 10 nil nil nil nil	10	
28.85	29.65	FELDSPAR PORPHYRY DIKE (MONZONITE) - 1 to 6 mm white euhedral feldspar phenocrysts in a fine crystalline grey matrix - @ 24.05 - irregular quartz carbonate vein about 30 mm wide cut by pyritic fracture														

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LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-01 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)			SLUDGE			MAGNETICS			
							AU ppb	1st pulp ppb	2nd pulp ppb	FROM	TO	AU ppb	FROM	TO	MGT. %	
		- lower contact sharp at 45 DEG. to core axis									68.88	71.93	nil			
29.56	49.10	MAFIC VOLCANIC									71.93	74.98	nil			
		- dark green to black, non-magnetic, fine grained with bleached altered grey white bands and lenses throughout at 40 to 50 DEG. to core axis									74.98	78.02	nil			
		- some contain quartz, carbonate and epidote									78.02	81.08	nil			
		- minor pyrite at 30.8 m									81.08	84.12	nil			
		- disseminated pyrite from 33.8 to 34.20 m									84.12	87.17	nil			
		- thin 3 cm chalcopyrite lense at 37.80 m									87.17	90.22	nil			
		- solution cavities at 41.45 m and 42.65 m									90.22	93.27	nil			
		- fault gouge and clay from 44.2 to 44.35 m									93.27	96.32	10			
											96.32	99.36	10			
											99.36	102.41	10			
											102.41	105.46	10			
											105.46	108.51	10 nil			
49.00	54.84	MAFIC DIKE (DIABASE)									108.51	111.56	nil			
		- massive dark green grey, medium crystalline with <5%, 1 to 4 mm pink, white amygdules throughout									111.56	114.60	nil			
		- some amygdules are epidote and carbonate altered									114.60	117.65	nil			
		- ground core at lower contact									117.65	120.70	nil			
											120.70	123.75	nil			
											123.75	126.80	nil			
54.84	62.84	MAFIC VOLCANIC	P-6504	55.02	55.78	0.76	nil	nil			126.80	129.84	nil			
		- dark green black, fine grained, non-magnetic with bleached altered grey white irregular bands and lenses	P-6505	57.91	59.38	1.47	nil				129.84	132.89	nil			
		- most bands and lenses parallel to foliation at 50 DEG.									132.89	135.94	nil			
		- 2 to 5 mm long black amygdules elongate parallel to foliation at 50 DEG.									135.94	138.99	nil			
		- quartz, carbonate and epidote masses at 55.0 m (10 cm wide) and at 58.3 m									138.99	142.02	nil			
		- pyritic fracture 2 mm wide 25 DEG. to core axis at 61.70 m									142.02	145.08	nil 10			
		- ground core at lower contact									145.08	148.13	nil			
											148.13	151.18	nil			
											151.18	154.23	nil			
											154.23	157.28	10 nil			
											157.28	160.32	10 nil			
											160.32	163.37	nil			

JW

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-01 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	ASSAY (CORE)					SLUDGE			MAGNETICS			
						METERS	AU	1st pulp	2nd pulp	ppb	ppb	ppb	ppb	ppb	FROM	TO	MGT. %
62.94	68.50	MAFIC DIKE (DIABASE) - dark green brown, medium crystalline, non-magnetic - contains less than 5% dark green fine grain and porphyritic xenoliths 5 to 25 mm in diameter ie. 25 mm feldspar porphyry xenoliths at 67.36 m - lower contact sharp at 50 DEG. to core axis										163.37	166.42	nil			
												166.42	169.47	nil			
												169.47	172.52	nil			
												172.52	175.56	nil			
												175.56	178.61	nil			
												178.61	181.66	nil			
												181.66	184.71	10			
68.50	69.90	FELDSPAR PORPHYRY DIKE (MONZONITE) - 1 to 4 mm pink to white feldspar phenocrysts in a pink grey fine grained matrix - occasional 3 to 15 mm mafic xenoliths										184.71	187.76	nil			
												187.76	190.80	70			
												190.80	193.85	nil			
												193.85	196.90	nil			
												196.90	199.95	nil			
												199.95	203.00	nil			
												203.00	206.04	10			
												206.04	209.09	nil			
												209.09	212.14	nil			
												212.14	215.19	nil			
												215.19	218.24	nil			
												218.24	221.28	nil			
												221.28	224.33	nil			
												224.33	227.38	nil			
												227.38	230.43	30 nil			
												230.43	223.48	nil			
												233.48	234.70	nil			
73.80	83.62	MAFIC TUFF, TUFF AGGLOMERATE - green grey to black, light to dark green, fine grained fragments and green amygdaloidal fragments 3 to 35 mm in diameter in a fine grain dark matrix - fragments visible at: 73.8 to 76.8, up to 25 mm in diameter 74.70 to 75.00, up to 6 mm in diameter 77.90 to 78.00, amygdaloidal fragments - possible bedding? visible at 78.70 m - lower contact sharp at 70 DEG. to core axis															
83.62	83.95	FELDSPAR PORPHYRY DIKE (MONZONITE) - 1 to 3 mm white to pink feldspar phenocrysts in a dark green grey															

7H

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-01

PROJECT: Meunier

TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)					SLUDGE		MAGNETICS			
							AU ppb	1st pulp ppb	2nd pulp ppb	ppb	ppb	ppb	FROM	TO	MGT. %		
		matrix															
		- lower contact sharp at 70 DEG. to core axis															
83.95	133.17	MAFIC TUFF, TUFF AGGLOMERATE	P-6506	87.57	89.09	1.52	nil										
		- similar to 73.80 to 83.62 m	P-6507	90.22	91.74	1.52	nil										
		- green grey to black	P-6508	91.74	93.27	1.53	nil										
		- composition and colour of fragments about the same as matrix	P-6509	93.27	94.79	1.52	nil										
		- fragments are not distinct	P-6510	94.79	96.32	1.53	nil										
		- fragments at : 89.10 to 89.40 m and 90.70 to 90.90 m	P-6511	96.32	97.69	1.37	nil										
		- bleached altered sections and quartz epidote carbonate stringers and lenses throughout	P-6512	112.04	113.48	1.44	nil										
		- most are parallel to foliation at 45 DEG.	P-6513	113.48	114.91	1.43	nil										
		Quartz Feldspar Epidote Altered Sections and Veins:	P-6514	114.91	116.43	1.52	nil										
		- 91.60 m - 3 cm wide vein	P-6515	116.43	117.93	1.50	nil										
		- 91.80 to 92.4 m - pyritic	P-6516	117.93	119.39	1.46	nil										
		- 94.26 to 96.31 m - intensely altered and veined	P-6517	119.39	120.85	1.46	nil	10									
		- 96.68 m - 3 cm wide vein	P-6518	120.85	122.29	1.44	nil										
		- 107.28 m - 4 cm wide vein	P-6519	122.29	123.66	1.37	nil										
		- 112.78 m - 1 cm wide vein	P-6520	125.09	126.58	1.49	nil										
		- 113.35 m - 4 cm wide, vuggy vein	P-6521	126.58	128.02	1.44	nil										
		- 113.75 to 114.25 m - vuggy vein															
		- 116.00 to 116.15 m - vein															
		- 117.36 m - 1.5 cm, vuggy vein															
		- 117.42 m - 2.0 cm wide, vuggy vein															
		- 120.7 m - 3.0 cm wide, vuggy vein															
		- 120.8 m - 2.0 cm wide vein															
		- 120.9 m - 3 cm wide vein															
		- disseminated pyrite <2% can be seen from about 90 m to 120 m															

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LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-01 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)			SLUDGE		MAGNETICS			
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.
							ppb	ppb	ppb	ppb	ppb				%
		- lower contact sharp at 62 DEG. to core axis													
150.88	152.92	ALTERED MAFIC VOLCANIC	P-6527	150.88	151.94	1.06	nil								
		- intensely altered, bleached, silicified	P-6528	151.94	153.04	1.10	nil								
		- mauve, buff to grey in colour													
		- lower contact sharp 44 DEG. to core axis													
152.92	154.52	MAFIC DIKE (DIABASE)													
		- medium to dark green, medium crystalline													
		- contains 1 to 3 mm carbonate amygdules													
		- lower contact irregular at about 70 DEG. to core axis													
154.52	155.28	FELDSPAR PORPHYRY DIKE (MONZONITE)													
		- 2 - 12 mm euhedral, pink to white feldspar phenocrysts in a medium crystalline grey green matrix containing 5 to 10% mafic phenocrysts													
		- lower contact sharp at 50 DEG. to core axis													
155.28	155.78	MAFIC DIKE (DIABASE)													
		- (same as 147.45 to 150.88)	P-6529	155.75	156.67	0.92	nil								
		- medium green, medium crystalline, non-magnetic													
		- carbonate occurs along fine shearing at 45 DEG. to core axis													
		- lower contact sharp 50 DEG. to core axis													
155.78	173.50	ALTERED MAFIC VOLCANICS													
		- similar to 134.0 to 147.45	P-6530	156.67	158.22	1.55	50	70							
		- quartz feldspar carbonate and epidote altered mafic volcanics causes irregular bleached and silicified bands, lenses, irregular veins and masses that alternate with lapilli tuffs? containing light green and porphyritic fragments in a black matrix	P-6531	158.22	159.72	1.50	40	50							
		- fragments are elongate at 45 DEG. to 60 DEG. to core axis	P-6532	159.72	161.09	1.37	10								
			P-6533	161.09	162.58	1.49	10								
			P-6534	166.88	168.34	1.46	nil								
			P-6535	168.34	169.8	1.46	nil								

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LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-01 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)			SLUDGE		MAGNETICS			
							AU	1st pulp	2nd pulp	FROM	TO	FROM	TO	MGT.	
							ppb	ppb	ppb					%	
		- reddish brown mineral with quartz, feldspar, epidote stringers from: 155.78 to 156.66 m 160.20 to 162.50 m 163.08 m, 163.65 m, 168.00 to 168.70 m	P-6536	169.80	171.30	1.50	20								
			P-6537	171.30	172.67	1.37	nil								
			P-6538	172.67	173.40	0.73	nil								
173.50	174.45	MAFIC DIKE (DIABASE) - dark green, medium grained, non-magnetic - lower contact at 58 DEG. to core axis	P-6539	174.44	175.06	1.12	nil								
174.45	196.45	ALTERED MAFIC VOLCANIC (TUFF?) - similar to 155.78 to 173.5 - quartz feldspar, carbonate, epidote altered - bleached and silicified sections - 181.36 to 183.0 intensely silicified and bleached to buff white colour - red brown mineral, <2 mm in diameter visible in some altered sections - fragments? visible in less altered sections - from 187.0 to 196.0 m, dark grey black with small fragments - @ 193.1 quartz feldspar vein with silver, white mica crystals - minor pyrite occurs along fractures and disseminated in quartz veins at: 187.0 to 187.2 m 181.75 to 192.0 m at 188.5 m - lower contact sharp at 30 DEG. to core axis	P-6540	175.56	177.06	1.50	nil								
			P-6541	177.06	178.43	1.37	nil								
			P-6542	178.43	179.86	1.43	nil								
			P-6543	179.86	181.33	1.47	nil								
			P-6544	181.33	182.73	1.40	nil								
			P-6545	182.73	184.10	1.37	nil								
			P-6546	184.10	185.47	1.37	nil nil								
			P-6547	185.47	187.06	1.56	nil								
			P-6548	187.06	188.49	1.43	nil								
196.45	196.50	FELDSPAR PORPHYRY DIKE (MONZONITE) - 1 to 4 mm feldspar phenocrysts in a fine grain grey green matrix													

AW

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)			SLUDGE		MAGNETICS			
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.
							ppb	ppb	ppb	ppb	ppb				%
		- lower contact sharp at 30 DEG. to core axis													
196.50	197.30	MAFIC DIKE (DIABASE) - dark green, fine crystalline, weak foliation, fine shearing with carbonate alteration at 37 DEG. to core axis - lower contact sharp at 31 DEG. to core axis													
197.30	212.45	MAFIC VOLCANIC (TUFF, TUFF AGGLOMERATE?) - section cut by irregular quartz feldspar, carbonate, epidote stringers, lenses, and masses at all angles to core axis, some contain reddish brown coloured mineral	P-6549	208.85	210.31	1.46	nil								
212.45	213.20	FELDSPAR PORPHYRY DIKE (MONZONITE) - 3 - 11 mm diameter white to pink feldspar phenocrysts in a medium grained matrix consisting of 5%, 1 mm mafic phenocrysts - epidote occurs along fractures - lower contact at 18 DEG. to core axis													
213.20	222.40	MAFIC TUFF, TUFF AGGLOMERATE - white to light green 2 to 16 mm fragments in a dark grey black matrix - fragments elongate and aligned at 51 DEG. to core axis - altered, bleached quartz feldspar, epidote sections, bands and stringers at: 216.9, 218.23 and 22.0 m - pyrite occurs along fractures and with epidote at 216.88, 217.0, and 218.10 m - lower contact sharp at 47 DEG. to core axis	P-6550	216.1	217.63	1.53	nil	P-6551	217.63	219.03	1.40	nil			
222.40	226.60	FELDSPAR PORPHYRY DIKE (MONZONITE) - 2 - 11 mm white to pink feldspar phenocrysts in a medium grained matrix containing 8%, 1.5 mm mafic phenocrysts													

QW

LAC MINERALS LTD.
 GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-01 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)					SLUDGE		MAGNETICS				
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.			
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%	
		- lower contact irregular at 25 DEG. to core axis																
226.60	234.49	MAFIC TUFF, TUFF AGGLOMERATE - large 1 to 7 cm fragments visible from 226.6 to 227.08 and 232.0 to 234.5 in a dark fine grained matrix - bedded at 42 DEG. to core axis - 228.0 to 228.2 and 229.2 to 229.8 - quartz epidote altered sections - lower contact at 47 DEG. to core axis	P-6552	229.21	230.73	1.52	nil											
234.49	234.69	FELDSPAR PORPHYRY DIKE (MONZONITE) - same as 224.48 to 226.6 m - 2 - 11 mm white phenocrysts in a medium grained matrix																
234.69		END OF HOLE																

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91 DUNCAN AVENUE
KIRKLAND LAKE, ONTARIO
P2N 1Y2

GENERAL INFORMATION

HOLE NUMBER: LF-86-02
PAGE NUMBER: 1
LOGGED BY: J. Kovala
DATE:

PROJECT: Meunier - Fallon Township

Type of Hole: DDH

LOCATION: L6E, 1+78S
COLLAR: LATITUDE
ELEVATION: COLLAR
LENGTH: 209.1
PURPOSE:
DATE STARTED: 23/07/86

AZIMUTH: 025 DEG. DIP: -45 DEG.
DEPARTURE:
BOTTOM:
RECOVERY: 98% CORE SIZE: BQ
DATE ENDED: 29/07/86

SURVEY DATA

LOCATION	AZIMUTH	DIP	METHOD	REMARKS
0	025	-45		COLLAR
61		-44	A.	
122		-40	A	
183		-36	A	

91W

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-02 PROPERTY: Meunier - Fallon Township TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE)						SLUDGE			MAGNETICS			
							ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	FROM	TO	MGT. %		
0.00	1.83	CASING																	
1.83	6.71	INTERMEDIATE VOLCANIC TUFF Dark green grey, non-magnetic with light green to white altered bleached sections and bands 5 to 40 mm wide throughout at 45 to 48 DEG. to core axis. Some altered sections contain quartz carbonate and epidote ie. at 3.04 m, 3.30 m, and 5.05 m. Fragments? are elongate parallel to foliation at approximately 45 DEG., dark green in colour and 5 to 30 mm long eg. 2.20 m to 3.00 m 6.30 m to 6.70 m Lower contact sharp at 51 DEG. to core axis.											4.88	7.92	nil				
													7.92	10.97	nil				
													10.97	14.02	nil				
																			Sludge lost at 14.02 m.
6.71	10.30	FELDSPAR PORPHYRY DIKE (MONZONITE) 1 to 3 mm white pink to orange feldspar phenocrysts in a orange red to grey medium crystalline matrix containing 5 to 8% mafic phenocrysts <1.5 mm in diameter. 3 mm wide chlorite vein 38 DEG. to core axis at 9.45 m. Bright orange mineral along fractures from 7.00 to 7.03 m. Lower contact irregular at about 40 DEG. to core axis.	R-7153	7.10	8.63	1.53	nil												
			R-7154	8.63	10.15	1.52	nil												
10.30	13.58	INTERMEDIATE VOLCANIC TUFF Similar to 1.83 to 6.71 m. Black to dark green grey with quartz carbonate and epidote altered and bleached sections that parallel foliation at about 50 DEG. Bright orange mineral visible along fractures from 10.50 to 11.10 m.	R-7155	13.01	14.33	1.32	nil												

9W

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-02 PROPERTY: Meunier - Fallon Township TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	ASSAY (CORE)						SLUDGE		MAGNETICS		
						FEET/ METERS	AU	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	FROM

Minor disseminated pyrite <1% along fractures and parallel to foliation.

Bright orange red mineral infills fractures at irregular angles to core axis.

No distinct primary foliation eg. bedding. Possible fragments? 2 to 50 mm in length have alignment and elongation parallel to foliation.

Minor fine disseminated pyrite visible along some altered sections and fractures.

Quartz carbonate, epidote vein with 3 - 5% pyrite from 13.94 to 13.51 m.

Lower contact sharp at 43 DEG. to core axis.

13.58 14.84

FELDSPAR PORPHYRY DIKE (MONZONITE)
Same as 6.71 to 10.30 m.

Lower contact sharp at 45 DEG. to core axis.

14.84 35.69

INTERMEDIATE VOLCANIC TUFF
Dark green grey to black with light green to grey white altered, bleached sections and bands parallel to subparallel to foliation at 48 DEG. to core axis. Some altered sections contain quartz carbonate and epidote veins or masses.
Some minor veins and fractures containing feldspar occur at all angles to core axis.

R-7156	24.08	25.60	1.52	nil
R-7157	34.17	35.66	1.49	nil

69 38.20

FELDSPAR PORPHYRY DIKE (MONZONITE)

915

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-02 PROPERTY: Meunier - Fallon Township TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE)						SLUDGE		MAGNETICS		
							AU	ppb	ppb	ppm	ppm	ppm	ppm	ppm	FROM	TO	AU

Same as 13.58 to 14.84 m.
1 to 3 mm pink and white feldspar phenocrysts in a pink to grey matrix with about 5% mafic phenocrysts <2 mm in diameter.

R-7158 37.12 38.59 1.47 nil

Lower contact at 40 DEG. to core axis.

38.20 41.63

INTERMEDIATE VOLCANIC TUFF
Medium to dark green grey, non-magnetic, fine grained. Foliation at 50 DEG. to core axis. Thin quartz carbonate, epidote and feldspar alter section parallel to foliation. Quartz epidote veins occur at 139.45; 5 cm wide minor pyrite, and at 99.85, 2 cm wide - no sulfides. Minor pyrite occurs disseminated and along fractures.

Lower contact sharp at 53 DEG. to core axis.

41.63 44.49

FELDSPAR PORPHYRY DIKE (MONZONITE)
Pink to white, 1 to 6 mm feldspar phenocrysts in a dark orange grey fine grained matrix with up to 10% mafic phenocrysts <3 mm in diameter.

Minor pyrite along fracture at 43.0 m.

Lower contact sharp at 58 DEG. to core axis.

44.49 47.95

INTERMEDIATE VOLCANIC TUFF
Dark green grey with elongate light green to white lenses up to 4 mm long and 3 mm wide that parallel the foliation at 53 DEG. Weakly magnetic.

Intensely altered, bleached, silicified from 44.85 to 44.51.

94

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-02 PROPERTY: Meunier - Fallon Township TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	ASSAY (CORE)						SLUDGE		MAGNETICS				
						FEET/ METERS	FT	M	AU	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	FROM
		Pyrite along fracture at 44.50.																
		Thin 2 mm quartz feldspar epidote vein at 44.08 m.																
		Some fractures contain a bright red orange mineral.																
47.95	49.70	MAFIC DIKE Dark green, fine grained, non-magnetic. 10%, 1 to 3 mm carbonate amygdales.																
49.70	53.91	INTERMEDIATE VOLCANIC TUFF Dark green grey, fine grained, magnetic, altered and bleached bands and lenses parallel to foliation.	R-7159	50.11	51.57	1.46	nil											
		@ 50.6 to 50.0: Black strongly magnetic pyritic lenses parallel to foliation.																
		Lower contact at 40 DEG. to core axis.																
53.91	56.72	FELDSPAR PORPHYRY DIKE (MONZONITE) Same as 41.63 to 74.49 m.	R-7160	54.31	55.98	1.47	nil	nil										
		Lower contact at 47 DEG. to core axis.																
56.72	65.62	INTERMEDIATE VOLCANIC TUFF Grey green, fine to medium grained, magnetic. Occasional 0.5 cm to 1 cm quartz carbonate amygdales.	R-7161	65.16	66.59	1.47	nil											
		Lower contact sharp at 48 DEG. to core axis.																

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LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-02 PROPERTY: Meunier - Fallon Township TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE)						SLUDGE			MAGNETICS			
							ppb	ppb	ppm	ppm	ppm	ppm	FROM	TO	AU ppb	FROM	TO	MGT. %	
65.62	68.10	FELDSPAR PORPHYRY DIKE (MONZONITE) Orange red, medium grained. 35%, 1 to 2 mm pink white feldspar phenocrysts in a bright orange red matrix. Lower contact sharp at 30 DEG. to core axis.	R-7162	66.59	67.72	1.13	nil												
			R-7163	67.72	68.79	1.07	nil												
68.10	81.49	INTERMEDIATE VOLCANIC TUFF Grey to greenish brown, dominantly fine grained with 1 to 3 mm dark fragments elongate parallel to foliation at 55 DEG. to core axis. 1 to 10 mm quartz carbonate amygdules throughout, Occasionally larger than 1 cm visible at eg. 71.47 and 79.25 to 81.38 m. Minor quartz carbonate stringers - some contain hematite. @ 76.2 foliation at 50 DEG. to core axis.	R-7164	71.58	73.00	1.42	nil												
			R-7165	73.00	74.50	1.50	nil												
81.49	82.12	MAFIC DIKE Dark grey green, medium grained, non-magnetic. 1 to 3 mm mafic phenocrysts. Weak foliation at 55 DEG. to core axis. Lower contact at 45 DEG. to core axis.																	
82.12	85.50	INTERMEDIATE VOLCANIC TUFF AND THIN MAFIC DIKES Tuff: grey green to reddish brown, fine to medium grained, 2 to 10 mm quartz carbonate amygdules elongate parallel to foliation at 44 DEG. to core axis, hematite altered. Dikes: Same as 81.49 to 82.12 m. 5 to 8% quartz carbonate stringers throughout, some contain hematite.	R-7166	84.43	85.95	1.52	nil												

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LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-02 PROPERTY: Meunier - Fallon Township TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE)					SLUDGE		MAGNETICS						
							AU	ppb	ppb	ppm	ppm	ppm	ppm	FROM	TO	AU	ppb	FROM	TO	MGT. %
	94.0 to 94.79	fine grained with 1 to 7 mm quartz amygdules elongate parallel to foliation at 47 DEG. to core axis.																		
	@ 95.55	Foliation at 43 DEG. to core axis.																		
	97.23 to 97.53	10% quartz carbonate masses.																		
	@ 99.67	Foliation at 49 DEG. to core axis.																		
	@ 102.56	1.5 cm quartz carbonate vein parallel to foliation at 52 DEG. to core axis.																		
	@ 105.21	3 mm pyrite seam at 62 DEG. to core axis.																		
	108.96 to 110.06	Sheared at 60 DEG. to core axis. Quartz carbonate as lenses and bands 0.5 to 3 mm wide elongate parallel to shear direction.																		
110.73	114.06	FELDSPAR PORPHYRY DIKE (MONZONITE) Large 1 cm euhedral, white to pink zoned feldspars in a grey brown to orange matrix. Subparallel alignment of feldspars. Lower contact at 55 DEG. to core axis.																		
114.06	123.69	INTERMEDIATE VOLCANIC TUFF Green dominantly fine grained, with magnetic sections. Banded appearance due to quartz carbonate epidote and hematite alteration parallel to foliation at 58 DEG. to core axis. 3 - 5% quartz carbonate and hematite veins and stringers throughout.	R-7170	117.4	118.81	1.40	10													

7H

LAC-MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-02 PROPERTY: Meunier - Fallon Township TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	FEET/ METERS	ASSAY (CORE)						SLUDGE		MAGNETICS		
							FROM	TO	PPB	PPB	PPM	PPM	PPM	PPM	FROM	TO	AU

Veins often appear zoned. Quartz and carbonate centers with hematite at the edges.

2 -3% pyrite occurs with stringers and disseminated throughout.

@ 118.8 : 12 cm wide quartz mass - minor epidote

@ 114.9 : Foliation at 48 DEG. to core axis.

@ 116.58: Foliation at 47 DEG. to core axis.

@ 121.16: Foliation at 48 DEG. to core axis.

Lower contact at 45 DEG. to core axis.

123.69 128.58

FELDSPAR PORPHYRY DIKE (MONZONITE)

Medium grained, 1 to 3 mm feldspar phenocrysts in a fine grained grey matrix. Fine disseminated pyrite throughout.

2 - 3% quartz carbonate epidote stringers some contain hematite.

Lower contact at 70 DEG. to core axis (parallel to foliation).

128.58 158.77

INTERMEDIATE VOLCANIC TUFF

Grey green, fine grained, non-magnetic. Minor quartz carbonate epidote hematite altered sections.

4 to 5% quartz carbonate veins and masses 1 mm to 2 cm in diameter from 128.58 to 145.7 decreases to 2 to 3% at 145.7 to 158.77.

Minor pyrite occurs disseminated and with stringers.

R-7171	128.93	130.42	1.49	nil
R-7172	130.42	131.97	1.55	10
				nil
R-7173	134.93	136.24	1.31	nil
R-7174	136.24	137.83	1.59	nil
R-7175	148.10	149.65	1.55	nil

JW

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-02 PROPERTY: Meunier - Fallon Township TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	ASSAY (CORE)							SLUDGE			MAGNETICS		
				FROM	TO	FEET/ METERS	AU	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	FROM
		@ 129.54: Foliation at 49 DEG. to core axis.	R-7176	149.66	151.18	1.53	nil									
		128.6 to 142.9: 1 to 4 mm fragments? elongate parallel to foliation.														
		@ 135.6: Foliation at 47 DEG. to core axis.														
		@ 143.56: Fragments? elongate parallel to foliation at 62 DEG. to core axis. Stretched at a ratio 5:1.														
		155.90 to 158.77: 1 to 4 mm fragments? elongate parallel to foliation at 43 DEG. to core axis.														
		Lower contact at 87 DEG. to core axis.														
158.77	159.54	MAFIC DIKE Same as 92.82 to 94.0 m. Grey brown, 30%, 1 to 2 mm mafic phenocrysts in a fine grained matrix. 5%, 1 to 3 mm pyrite clots.														
		Lower contact at 90 DEG. to core axis.														
159.54	161.65	INTERMEDIATE VOLCANIC TUFF Similar to 155.90 to 158.77m.														
		@ 159.71: Foliation at 56 DEG. to core axis.														
		@ 159.81: Kink folding.														
		@ 161.0 to 161.2: Thinly bedded 1 to 3 mm fragments elongate parallel to foliation stretched at a ratio of 4:1.														

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LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-02 PROPERTY: Meunier - Fallon Township TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	ASSAY (CORE)						SLUDGE		MAGNETICS					
						FEET/ METERS	AU	ppb	ppb	ppm	ppm	ppm	ppm	FROM	TO	AU	ppb	FROM	TO
		Dark green, fine grained, weakly magnetic. 2%, 3 to 10 mm chlorite clots, often surrounded by quartz carbonate and epidote.																	
		Lower contact sharp at 40 DEG. to core axis.																	
171.30	176.20	FELDSPAR PORPHYRY DIKE (MONZONITE) Medium grained. 60%, 1 to 3 mm pink white feldspar phenocrysts in a finer matrix. 1 to 2% fine disseminated pyrite.																	
		Lower contact irregular at 30 DEG. to core axis.																	
176.20	209.10	INTERMEDIATE TUFF Dark grey green, fine grained with 30% quartz feldspar epidote altered bands, lenses and veins, subparallel to foliation - 1 to 8 cm wide. 1 to 2 mm white elongate amygdules vary from 0 to 35% through section.	R-7182	178.61	180.13	1.52	nil												
			R-7183	187.26	188.73	1.47	nil												
			R-7184	194.67	196.14	1.47	nil												
		Minor pyrite. 179.22 to 180.13: 2 to 20 mm elongate fragments? stretched parallel to foliation at a ratio of 4:1.																	
209.10		END OF HOLE																	

QW

LAC MINERALS LTD.
 91 DUNCAN AVENUE
 KIRKLAND LAKE, ONTARIO
 P2N 1Y2

GENERAL INFORMATION

HOLE NUMBER: LF-86-03
 PAGE NUMBER: 1
 LOGGED BY: J. Kovala
 DATE: August 13, 1986

PROJECT: Meunier

Type of Hole: DDH

LOCATION: Fallon Township
 COLLAR: LATITUDE L4E
 ELEVATION: COLLAR
 LENGTH: 231.65 meters
 PURPOSE:
 DATE STARTED: 29/07/86

AZIMUTH: 025 DEG.
 DEPARTURE: 1+50S
 BOTTOM:
 RECOVERY: 98%
 DATE ENDED: 05/08/86

DIP: -45 DEG.
 CORE SIZE: BQ

SURVEY DATA

LOCATION	AZIMUTH	DIP	METHOD	REMARKS
0	025	-45		COLLAR
200		-40	A	
400		-38	A	
600		-35	A	

JK

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-03 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE			MAGNETICS			
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.		
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%
0.00	10.97	OVERBURDEN															
10.97	21.82	MAFIC VOLCANIC FLOW	P-6553	10.97	12.50	1.53	nil										
		- green grey, non-magnetic, fine grained, containing 20 to 25% white	P-6554	13.84	15.30	1.46	nil										
		1 to 3 mm masses of feldspars throughout section causing	P-6555	15.30	16.82	1.52	nil										
		spherulitic texture															
		- 1 to 4 mm carbonate stringers and masses at all angles to core															
		axis occur throughout section often containing fine grained orange															
		mineral?															
		- bleached, altered and silicified sections are lighter grey green															
		in colour and occur from: 12.1 to 12.25, 15.8 to 15.70 and															
		16.9 to 20.17															
		11.03: 3 cm quartz carbonate vein at 40 DEG. to core axis															
		13.81: 3 cm quartz carbonate vein															
		14.02: 5 cm quartz carbonate vein 35 DEG. to core axis															
		14.3 to 14.57: vuggy quartz vein															
		17.8: 1 cm wide quartz carbonate vein at 20 DEG. to core axis															
		18.4: minor pyrite along thin fracture															
		- lower contact sharp at 54 DEG. to core axis															
21.82	22.86	FELDSPAR PORPHYRY DIKE (MONZONITE)															
		- 1 to 4 mm, white to pink feldspar phenocrysts in a dark grey to orange															
		fine grained matrix															

QW

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-03 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE		MAGNETICS		
							AU	1st pulp	2nd pulp	ppb	ppb	ppb	ppb	ppb	ppb

21.9: 2.5 cm mafic xenolith
- lower contact sharp at 52 DEG. to core axis

22.86 24.68 MAFIC VOLCANIC FLOW
 - similar to 10.97 to 21.82
 - green grey, non-magnetic fine grained, containing 15 to 20%
 1 to 3 mm masses of feldspars
 - no veins, no sulphides
 - lower contact sharp at 45 DEG. to core axis

24.68 25.57 FELDSPAR PORPHYRY DIKE (MONZONITE)
 - same as 21.8 to 22.86
 - 1 to 4 mm pink to white feldspar phenocrysts in grey orange matrix
 - lower contact sharp at 47 DEG. to core axis

25.57 37.06 MAFIC VOLCANIC FLOW
 - similar to 22.86 to 24.68
 - green grey to black in colour
 - section varies from up to 30%, 1 to 3 mm feldspar masses and
 crystals in a fine crystalline matrix causing a spherulitic
 texture to massive fine crystalline with no feldspar masses
 - irregular bleached and altered sections occur throughout
 - some contain quartz carbonate epidote veins and masses

P-6591 29.56 30.78 1.22 nil 10
 P-6556 35.23 36.76 1.53 nil

28.40: 3 cm wide quartz carbonate epidote vein at 70 DEG. to core axis

28.59: 2 cm wide quartz carbonate epidote vein at 20 DEG. to core axis

9W

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-03 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)					SLUDGE		MAGNETICS				
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.			
							ppb	ppb	ppb	ppb	ppb	ppb						%

foliation at 48 DEG. to core axis
- minor thin 1 to 3 cm altered sections throughout section

48.43: pyrite along fractures

54.22 to 54.40: three thin quartz carbonate epidote veins containing up to 5% disseminated pyrite

54.25 to 54.46: quartz carbonate and epidote masses

55.16: bedding? visible at 47 DEG. to core axis

57.15: 2 cm wide quartz carbonate vein with minor pyrite at 55 DEG. to core axis

63.33: 4 cm wide vein at 45 DEG. to core axis

72.00 83.45 FELDSPAR PORPHYRY DIKE (MONZONITE)

- 1 to 4 mm pink, white to orange, subhedral feldspar phenocrysts in a fine crystalline dull grey orange matrix
- matrix and feldspars altered to a bright red orange, most intense from 75.5 to 77.5

P-6558	73.88	75.41	1.53	nil
P-6559	75.41	76.93	1.52	nil
P-6560	76.93	78.46	1.53	nil 10
P-6561	78.46	80.83	2.37	nil

78.3 to 79.0: <2% disseminated pyrite on fracture surfaces

- lower contact sharp at 34 DEG. to core axis

83.45 86.19 MAFIC VOLCANIC TUFF, LAPILLI TUFF

- dark green, grey to light green, non-magnetic with 1 to 3 mm light and dark green fragments? not distinct

QV

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-03 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE		MAGNETICS			
							AU	1st pulp	2nd pulp		FROM	TO	AU	FROM	TO	MGT.
							ppb	ppb	ppb	ppb	ppb	ppb	ppb			

- some fragments are elongate parallel to foliation at 45 DEG. to core axis at eg. 83.8 to 84.2 and 85.7 to 85.8
- thin carbonate stringers at all angles to core axis, some contain epidote or a bright red orange fine grained mineral
- lower contact sharp at 85 DEG. to core axis

86.19 88.39

MAFIC DIKE

- grey brown, non-magnetic, 10% 1 to 3 mm, dark green to black mafic phenocrysts in a medium to fine crystalline matrix, grey brown in colour
- mafic volcanic xenoliths at 82.25 to 87.55 and 88.03 to 88.21
- 5 to 10%, 2 - 17 mm pyrite blebs throughout
- section cut by irregular carbonate stringers at all angles to core axis, some contain a bright orange mineral

87.0 to 87.1: brecciated bleached recemented section, yellow in colour

88.39 91.07

MAFIC VOLCANIC TUFF, LAPILLI TUFF

- similar to 83.45 to 86.2
- dark grey green, non-magnetic
- section cut by minor quartz carbonate and epidote stringers at all angles to core axis; some contain minor pyrite

P-6562 89.67 91.02 1.53 mil

88.40 to 89.2: 2 to 20 mm long, light to medium green fragments, elongate, parallel to weak foliation at 43 DEG. to core axis

89.2 to 90.5: dark grey green to black, non-magnetic mottled textured to massive

94

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-03 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE			MAGNETICS		
							AU	1st pulp	2nd pulp	ppb	ppb	ppb	ppb	ppb	ppb	ppb

90.76: visible fragments?

- lower contact irregular cut by quartz carbonate, epidote vein

91.07 110.12

MAFIC VOLCANIC FLOW

- dark grey green, non-magnetic contains 5 to 15% white feldspar crystals and masses in a fine crystalline dark matrix causing a spherulitic texture
- epidote quartz carbonate stringers at all angles to core axis throughout

P-6563	91.20	92.72	1.52	nil
P-6590	92.72	93.88	1.16	nil
P-6564	93.88	95.40	1.52	nil
P-6565	95.40	96.93	1.53	nil
P-6566	106.98	108.51	1.53	nil
P-6567	109.7	111.22	1.52	nil

91.1 and 91.3: thin quartz carbonate epidote vein

92.75: 4 cm wide quartz carbonate epidote vein

96.1: quartz carbonate and epidote vein

96.68 to 96.83: brecciated, bleached and recemented section containing quartz carbonate and epidote as masses and veins

91.85 to 92.05: brecciated, bleached and recemented section

94.5 to 94.70: bleached altered section

96.25: 1 cm quartz and epidote vein

99.8 to 99.0: quartz epidote masses and veins

107.22 to 107.26: mafic dike same as 86.19 to 88.39 at 20 DEG. to core axis

915

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-03 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)			SLUDGE			MAGNETICS		
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.
							ppb	ppb	ppb	ppb	ppb	ppb			%
110.12	119.26	MAFIC VOLCANIC, TUFF - LAPILLI TUFF - dark green to green grey - 1 to 7 mm fragments, light green, grey to white, elongate, parallel to foliation at 40 DEG. - bright orange red mineral occurs infilling fractures with minor carbonate throughout	P-6568	111.22	112.75	1.53	nil								
		110.89 to 111.1: quartz carbonate mass	P-6569	114.00	115.20	1.52	nil								
		111.73 to 111.77: quartz carbonate mass 1-3% pyrite	P-6570	116.89	118.41	1.52	nil								
		112.29 to 113.6: quartz carbonate mass													
		114.4 to 114.6: foliation at 42 DEG. to core axis													
		116.8 to 119.27: fragments visible													
		- lower contact at 35 DEG. to core bedding axis													
119.26	122.22	FELDSPAR PORPHYRY DIKE (MONZONITE) - 1 to 2 mm euhedral pink to white feldspar phenocrysts in a dull pink grey, medium to fine crystalline matrix containing <5% mafic phenocrysts <1 mm in diameter - lower contact sharp at 30 DEG. to core axis													
122.22	176.36	MAFIC TUFF - TUFF AGGLOMERATE - lapilli tuff at 122.22 to 126.03 - 75% white fragments elongate parallel to foliation at 40% to core axis in dark grey black matrix	P-6571	131.37	132.89	1.52	10	10							
			P-6572	133.14	134.36	1.22	10								
			P-6573	134.36	135.73	1.37	nil								

9H

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FROM TO

REMARKS

SAMPLE

NUMBER FROM

TO

METERS

ASSAY (CORE)

AU

1st pulp

2nd pulp

SLUDGE

FROM

TO

AU

MAGNETICS

FROM

TO

MGT.

ppb

ppb

ppb

ppb

ppb

ppb

ppb

ppb

ppb

ppb

ppb

%

- 126.03 to 126.3: 4 to 5 cm fragments elongate at 45 DEG. to core axis
- 129.75 to 131.3: 5 to 10% , 0.4 to 13 cm rounded white fragments
- 162.49 to 166.0: mafic agglomerate, fine grained green fragments fragments with porphyritic texture and white amygdules in a dark grey matrix
- brecciated and cemented sections cut by numerous carbonate stringers, bright red mineral? along fractures and as cement with carbonate

P-6574	135.73	137.25	1.52	nil									
P-6575	142.95	144.48	1.53	nil									
P-6576	144.48	146.00	1.52	nil									
P-6577	146.00	147.68	1.68	nil									
P-6578	147.68	148.53	0.85	nil									
P-6579	154.35	155.87	1.52	nil									
P-6580	155.87	157.28	1.41	10	10								
P-6592	165.96	167.34	1.38	nil									
P-6581	170.35	171.88	1.53	nil									

132.50: 7 cm quartz carbonate epidote vein 60 DEG. to core axis

134.81: 2.5 cm quartz carbonate epidote vein 30 DEG. to core axis

134.96: 10 cm quartz carbonate epidote vein 42 DEG. to core axis

135.15: 6 cm quartz carbonate epidote vein 60 DEG. to core axis, minor pyrite

135.39: 10 cm quartz carbonate epidote vein 40 DEG. to core axis, minor pyrite

136.34 to 136.64: intensely silicified altered bleached, brecciated and recemented

145.3 to 145.63: brecciated and recemented

147.07 to 147.52: brecciated and recemented

155.45: 4 cm quartz carbonate vein 20 DEG. to core axis

QW

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-03 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE		MAGNETICS				
							AU	1st pulp	2nd pulp	ppb	ppb	ppb	ppb	ppb	ppb	ppb	FROM
		- lower contact irregular at about 50 DEG. to core axis															
176.36	182.05	FELDSPAR PORPHYRY DIKE (MONZONITE) - 1 to 4 mm, white to pink, euhedral to subeuhedral feldspar phenocrysts in a pink, medium to fine grained matrix - mafic xenoliths up to 4 cm in diameter at 178.83 - lower contact irregular at 30 DEG. to core axis	P-6582	180.59	182.12	1.53	nil										
182.05	182.72	MAFIC DIKE - grey brown, non-magnetic, 20% mafic phenocrysts <0.5 mm in diameter in a fine grained matrix - 1 to 2% disseminated pyrite throughout - lower contact sharp at 40 DEG. to core axis parallel to foliation in tuff															
182.72	184.01	LAPILLI TUFF - 0.4 to 4 mm, white fragments in medium green fine grained matrix - visible banding, possible bedding representing primary foliation? at 47 DEG. to core axis															
184.01	187.87	FELDSPAR PORPHYRY DIKE (MONZONITE) - same as 176.35 TO 182.05															
		186.23: vuggy quartz carbonate vein 1 cm wide															
		- lower contact at 20 DEG. to core axis															
187.87	195.80	MAFIC VOLCANIC TUFF - dark grey green, fine grained, and non-magnetic	P-6583	190.80	192.33	1.53	nil										

QW

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-03 PROJECT: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE		MAGNETICS	
							AU	1st pulp	2nd pulp		FROM	TO	AU	FROM
							ppb	ppb	ppb	ppb	ppb	ppb		
203.30	206.34	<p>MAFIC VOLCANIC TUFF</p> <ul style="list-style-type: none"> - green grey, fine grained, non-magnetic - moderately altered, silicified, bleached sections <p>203.82 to 204.06: 4 to 5% disseminated pyrite</p> <p>203.97: pyrite along thin feldspar stringer, parallel to foliation at 34 DEG. to core axis</p> <ul style="list-style-type: none"> - lower contact at 45 DEG.? to core axis 	P-6589	203.70	205.22	1.52	nil							
206.34	229.69	<p>MAFIC AGGLOMERATE</p> <ul style="list-style-type: none"> - large porphyritic fragments 1 to 8 cm throughout, elongate parallel to foliation at 38 DEG. - minor bleached and altered sections - brecciated, recemented section at 217.62 to 217.87 - lower contact sharp at 39 DEG. 	P-6593	216.4	217.93	1.53	nil							
229.69	231.65	<p>MAFIC DIKE</p> <ul style="list-style-type: none"> -dark green to black fine crystalline 												
	231.65	END OF HOLE												

9K

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 91 DUNCAN AVENUE
 KIRKLAND LAKE, ONTARIO
 P2N 1Y2

GENERAL INFORMATION

HOLE NUMBER: LF86-4
 PAGE NUMBER: 1
 LOGGED BY: John Kovala
 DATE: August 21, 1986

PROJECT: Meunier Project

Type of Hole: DDH

LOCATION: L22E/5+22N
 COLLAR: LATITUDE
 ELEVATION: COLLAR
 LENGTH: 227.4 meters
 PURPOSE:
 DATE STARTED: August 15, 1986

AZIMUTH: 025 DEG.
 DEPARTURE:
 BOTTOM:
 RECOVERY: 98%
 DATE ENDED: August 19, 1986
 DIP: -55 DEG.
 CORE SIZE: BQ

SURVEY DATA

LOCATION	AZIMUTH	DIP	METHOD	REMARKS
0	25	-55		COLLAR
61		-54	A	
122		-52	A	
183		-47	A	

QN

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE		MAGNETICS			
							AU	1st pulp	2nd pulp	ppb	FROM	TO	AU	FROM	TO	MGT.
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%	
0.00	10.36	CASING														
10.36	19.72	FELDSPAR PORPHYRY DIKE Medium grained pink non-magnetic 25 to 30% 1 to 4mm white feldspar phenocrysts in a fine grained pink matrix, weak foliation (shearing) at 40 deg. to core axis. 5% quartz feldspar veins, some contain minor pyrite.	7105	10.36	11.83	1.47	20	nil			10.97	14.02	10			
			7106	11.83	13.11	1.28	nil				14.02	17.07	20	30		
			7107	13.11	14.26	1.15	nil				17.07	20.12	nil			
			7108	18.81	20.21	1.40	nil				20.12	23.16	nil			
		11.67 to 12.92: 40% vuggy quartz feldspar veins 5% fine disseminated pyrite, epidote altered									23.16	26.21	nil			
		12.92 to 13.04: 30% quartz carbonate veins and masses. Lower contact at 25 deg. to core axis									26.21	29.26	10			
											29.26	32.30	nil			
											32.30	35.36	nil			
											35.36	38.40	nil			
											38.40	41.45	nil			
											41.45	44.50	20	nil		
19.72	40.90	INTERMEDIATE LAPILLI TUFF Colour varies from dark green to light grey green, non-magnetic, bedding visible 64.7 to 114.20 to 30% carbonate amygdules 1 to 8mm in diameter, singular and as clusters elongate parallel to foliation, foliation (bedding) at 35 to 42 deg. to core axis	7109	21.58	23.07	1.49	nil				44.50	47.55	nil			
			7110	23.07	24.44	1.37	nil				47.55	50.60	nil			
			7111	24.44	25.91	1.47	nil				50.60	53.64	nil			
			7112	30.17	31.70	1.53	nil				53.64	56.69	nil			
		23.77 to 24.07: grey fine grained, bedding at 35 deg. to core axis. 5% pyrite along fractures parallel to foliation.									56.69	59.74	nil			
											59.74	62.79	nil			
											62.79	65.84	nil			
											65.84	68.88	nil			
											68.88	71.93	nil			
											71.93	74.98	nil			
											74.98	78.03	nil			
		24.75 to 25.15: 5 to 8% pyrite disseminated and along fractures parallel to foliation, @ 82.2 and 82.8 bands of grey fine grained tuff.									78.03	81.08	nil			
											81.08	84.12	nil	nil		
											84.12	87.17	nil			
											87.17	90.22	nil			
		27.06 to 28.16: 2 to 8mm beds at 35 deg. to core axis									90.22	93.27	nil			

9N

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)						SLUDGE			MAGNETICS		
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.			
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%
	39.26:	1.5cm carbonate vein at 20 deg. to core axis subparallel to foliation. Lower contact at 20 deg. to core axis										93.27	96.32	nil				
40.90	42.49	LAMPROPHYRE DIKE 60% 1 to 3mm pyroxene and biotite phenocrysts in a grey white matrix of quartz feldspar and carbonate. Lower contact at 63 deg. to core axis	7113	41.91	43.37	1.46	nil					93.32	99.36	nil				
												99.36	102.41	nil				
												102.41	105.46	nil				
												105.46	108.51	nil				
												108.51	111.56	nil				
42.49	56.81	INTERMEDIATE LAPILLI TUFF Similar to 19.72 to 40.9 slight increase in quartz carbonate veins and alteration, bedding and carbonate amygdules visible throughout. 10 to 15% quartz carbonate veins and masses. 3 to 6% pyrite throughout	7114	43.37	44.80	1.43	nil											
			7115	44.80	46.32	1.52	nil											
			7116	46.32	47.79	1.47	nil											
			7117	47.79	49.31	1.52	nil											
							nil											
			7118	49.31	50.75	1.44	nil											
	45.32	2.2cm wide quartz carbonate vein at 40 deg. to core axis parallel to foliation containing 10% pyrite as large cubes																
	47.36 to 47.54:	30% quartz carbonate with grey fine grained siliceous tuff.																
	50.59:	Foliation at 32 deg. to core axis.																
	55.32 to 55.66:	60% quartz carbonate masses. Minor pyrite. Lower contact at 41 deg. to core axis.																
56.81	59.07	MAFIC DIKE DIABASE Dark green fine grained with 1 to 2mm mafic phenocrysts Carbonite throughout matrix.																

9H

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GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)					SLUDGE		MAGNETICS					
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.				
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%	
Lower contact at 35 deg. to core axis.																			
59.07	73.61	INTERMEDIATE LAPILLI TUFF Similar to 42.49 to 56.81 Some sections contain large amygdules up to 16mm elongate parallel to foliation at 36 deg. to core axis 3 to 5% disseminated pyrite throughout.	7119	59.44	60.96	1.52	nil												
			7120	65.44	66.87	1.43	nil												
			7121	66.87	68.27	1.40	nil												
			7122	68.27	69.74	1.47	nil												
			7123	69.74	71.20	1.46	nil												
		60.68 to 60.99: 20% vuggy quartz carbonate veins and masses.	7124	71.20	72.60	1.40	nil												
		65.35 to 66.51: grey black, lacks distinct foliation and carbonate amygdules minor pyrite.	7125	72.60	73.60	1.00	nil												
		66.84 to 67.36: 8 to 10% disseminated pyrite																	
Lower contact at 22 deg. to core axis.																			
73.61	74.22	MAFIC DIKE, DIABASE Same as 56.81 to 59.07 dark green, 40% 1 to 2mm mafic phenocrysts in a fine grained matrix carbonate throughout matrix @73.76 1cm quartz, carbonate vein at 12 deg. to core axis. Lower contact at 31 deg. to core axis.	7126	74.12	75.53	1.41	nil												
74.22	84.00	INTERMEDIATE LAPILLI TUFF similar to 59.07 to 73.61 3 to 6% pyrite throughout, increase in quartz carbonate veins and stringers grey green beds are visible, less large carbonate amygdules than above sections @ 74.31 1.4cm quartz vein at 30 deg. to core axis. Foliation at 34 deg. to core axis.	7127	75.53	77.11	1.58	nil												
			7128	77.11	78.51	1.40	nil												
			7129	78.51	79.95	1.44	nil												
			7130	79.95	81.38	1.43	nil												
			7131	81.38	82.81	1.43	nil												
			7132	82.81	84.22	1.41	nil nil												

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EAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE		MAGNETICS					
							AU	1st pulp	2nd pulp	ppb	ppb	ppb	ppb	ppb	ppb	ppb	FROM	TO
							AU	1st pulp	2nd pulp	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%
		89.24 to 89.31 ground core.																
89.31	91.20	RHYOLITE Lower contact at 28 deg. to core axis.																
91.20	93.85	INTERMEDIATE LAPPILLI TUFF																
		Dark grey black fine grained minor pyrite, foliation at 36 deg. to core axis.	7135	91.53	92.96	1.40	nil											
		@ 91.50 to 91.75: rhyolite fragments?	7136	92.96	94.30	1.34	nil											
		91.75 to 91.95: 50% quartz carbonate masses.																
		@ 92.59: 1.3cm quartz carbonate vein at 80 deg. to core axis. Lower contact at 20 deg. to core axis.																
93.85	97.96	RHYOLITE																
		@ 97.54 foliation at 30 deg. to core axis. Lower contact at 22 deg. to core axis.	7137	97.23	98.75	1.52	nil											
97.96	98.12	MAFIC DIKE, DIABASE																
		Same as 73.61 to 74.22. Lower contact at 22 deg. to core axis																
98.12	98.96	RHYOLITE grey to yellow fine grained foliation at 36 deg. to core axis.																

AK

LAC MINERALS LTD.

GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04

PROPERTY: Meunier

TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE		MAGNETICS			
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.	
							ppb	ppb	ppb	ppb	ppb	ppb				%
		Lower contact at 10 deg. to core axis.														
98.96	99.70	MAFIC DIKE, DIABASE Same as 97.96 to 98.12														
99.70	100.03	RHYOLITE Same as 98.12 to 98.96														
100.03	102.75	INTERMEDIATE LAPILLI TUFF Grey fine grained, foliation at 37 deg. to core axis. Lower contact at 41 deg. to core axis.														
102.75	103.40	RHYOLITE Lower contact at 40 deg. to core axis.														
103.40	103.57	MAFIC DIKE DIABASE Same as 98.96 TO 99.7 3% disseminated pyrite Lower contact at 34 deg. to core axis.														
103.57	103.87	RHYOLITE														
103.87	104.51	DIABASE DIKE Same as 103.4 to 103.57 Lower contact at 48 deg. to core axis.														
104.51	107.68	RHYOLITE Foliation at 33 deg. to core axis														

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LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)			SLUDGE		MAGNETICS				
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.	
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%	
		Lower contact at 42 deg. to core axis.														
107.68	108.11	FELDSPAR PORPHYRY DIKE Greenish medium grained, 30% 2-5mm white feldspar phenocrysts in a fine grained grey green matrix. Matrix epidote altered. Minor (1%) disseminated pyrite. Lower contact at 42 deg. to core axis.														
108.11	108.38	INTERMEDIATE TUFF Light green fine grained, bedding? at 46 deg. to core axis.														
108.38	114.84	FELDSPAR PORPHYRY DIKE Same as 107.68 to 108.11 Epidote altered green 10% quartz feldspar carbonate veins at all angles to core axis, some contain epidote and chlorite 2 to 4% pyrite throughout Lower contact at 48 deg. to core axis.	7138	108.80	110.64		1.84	nil								
			7139	110.64	111.77		1.13	nil								
			7140	111.77	113.10		1.33	nil								
			7141	113.10	114.60		1.50	nil	nil							
			7142	114.60	116.12		1.52	nil								

Handwritten initials/signature

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)					SLUDGE		MAGNETICS		
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.	
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%
114.84	115.21	INTERMEDIATE TUFF Grey green fine grained, Minor 2 to 4% disseminated pyrite Lower contact at 49 deg. to core axis.														
115.21	116.10	RHYOLITE Colour varies from tan to pink, fine grained Foliation throughout at 24 deg. to core axis. @ 115.34: 5cm diameter quartz mass, minor pyrite @ 116.00: quartz masses in filling breccia fractures Lower contact at 38 deg. to core axis.														
116.10	116.74	FELDSPAR PORPHYRY DIKE Similar to 107.68 to 108.11 Feldspar phenocrysts up to 1cm in diameter. Epidote altered Lower contact at 47 deg. to core axis.	7143	116.12	117.65	1.53	nil									
116.74	118.72	RHYOLITE Colour varies from grey black to yellow fine grained. Foliation throughout at 44 deg. to core axis. 1 to 2% disseminated pyrite. Broken core at lower contact.	7144	117.65	119.65	1.52	nil									
118.72	120.00	LAMPROPHYRE DIKE Dark green black colour 50 to 60% small mafic phenocrysts in a light green matrix. 5% 3 to 8mm carbonate amygdales, carbonate throughout matrix Foliation at 30 deg. to core axis. Lower contact at 80 deg. to core axis.														

9/11

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE		MAGNETICS					
							AU	1st palp	2nd palp	ppb	ppb	ppb	ppb	ppb	ppb	ppb	FROM	TO
120.00	125.24	FELDSPAR PORPHYRY DIKE 25 to 35% pink and white feldspars 1 to 4mm in diameter in a pink grey matrix. 10% mafic phenocrysts < 2mm in diameter. Trace pyrite Lower contact ground																
125.24	126.43	RHYOLITE Yellow fine grained Foliation at 43 deg. to core axis Lower contact ground																
126.43	126.79	FELDSPAR PORPHYRY DIKE Same as 120.0 to 125.24																
126.79	127.97	INTERMEDIATE TUFF Green, medium grained Foliation at 49 deg. to core axis 3 to 4% pyrite disseminated and along fractures parallel to foliation Lower contact at 44 deg. to core axis.																
127.97	134.60	RHYOLITE Yellow fine grained 129.38 to 129.87: silicified, purple blue mineral flourite Lower contact at 19 deg. to core axis.																
134.60	136.43	MAFIC DIKE, DIABASE Green medium grained weakly magnetic carbonate throughout matrix, rich, 5 to 8% carbonate stringers																

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)			SLUDGE		MAGNETICS			
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT. %
							ppb	ppb	ppb	ppb	ppb	ppb			
		135.94 to 136.39 ground core Lower contact at 20 deg. to core axis													
136.43	144.63	RHYOLITE Yellow green to black, fine grained 142.46 to 143.26, 15% quartz carbonate along fractures at 75 to 85 deg. to core axis Lower contact at 36 deg. to core axis.													
144.63	145.63	MAFIC DIKE Same as 134.59 to 136.43 dark green fine grained, carbonate throughout matrix Lower contact at 31 deg. to core axis													
145.63	165.08	RHYOLITE Yellow to black fine grained 147.88 to 148.13 sheared at 36 deg. to core axis.	7145	151.09	152.55	1.46	nil								
			7146	152.55	155.38	1.46	nil								
		@ 153.62: 1.5cm quartz barite? vein at 75 deg. to core axis. @ 164.89: Foliation at 40 deg. to core axis. Lower contact ground													
165.08	165.38	MAFIC DIKE same as 144.63 to 145.63 Lower contact at 20 deg. to core axis.													
165.38	218.30	RHYOLITE 171.60 to 172.5 30% quartz, minor carbonate, trace pyrite 178.61 Foliation at 48 deg. to core axis. 201.47 Foliation at 50 deg. to core axis	7147	171.33	172.82	1.49	nil								
			7148	200.31	201.89	1.58	nil								
			7149	204.64	206.10	1.46	nil								

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LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF-86-04 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE		ASSAY (CORE)						SLUDGE			MAGNETICS			
			NUMBER	FROM	TO	METERS	AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.		
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%
		205.4 Foliation at 42 deg. to core axis	7150	206.10	207.50	1.40	nil	nil									
		213.66 Foliation at 44 deg. to core axis	7151	217.63	219.15	1.52	nil										
		Lower contact at 30 deg. to core axis.															
218.30	218.72	MAFIC DIKE Same as 165.08 to 165.38 Dark green fine grained carbonate altered matrix Lower contact at 28 deg. to core axis.															
218.72	227.38	RHYOLITE End of hole 227.38	7152	223.45	224.91	1.46	nil										

John Kusaka

LAC MINERALS LTD.
 91 DUNCAN AVENUE
 KIRKLAND LAKE, ONTARIO
 P2N 1Y2

GENERAL INFORMATION

HOLE NUMBER: LF-86-5
 PAGE NUMBER: 1
 LOGGED BY: John Kovala
 DATE: August 30, 1986

PROJECT: MEUNIER PROJECT

Type of Hole: DDH

LOCATION: L8E/6+87.5S
 COLLAR: LATITUDE
 ELEVATION: COLLAR
 LENGTH: 181 meters
 PURPOSE:
 DATE STARTED: August 20, 1986

AZIMUTH: 025 DEG.
 DEPARTURE:
 BOTTOM:
 RECOVERY: 98%
 DATE ENDED: August 27, 1986
 CORE SIZE:
 DIP: -45 DEG.

SURVEY DATA

LOCATION	AZIMUTH	DIP	METHOD	REMARKS
0	25	-45		COLLAR
61		-45	A	
122		-41	A	
181		-40	A	

PH

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF86-05 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)						SLUDGE			MAGNETICS			
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT. %				
							ppb	ppb	ppb	ppb	ppb	ppb							
0.00	46.94	Casing																	
46.94	49.43	BROKEN AND GROUND CORE, INTERMEDIATE TUFF - green medium grained non magnetic - 1-2mm pink feldspar phenocrysts throughout																	
49.43	51.91	FELDSPAR PORPHYRY DIKE -pink medium grained non-magnetic -40% 1 to 2mm pink white feldspar phenocrysts in a fine grained pink matrix -minor disseminated pyrite -lower contact at 30 deg. to CA	7078	49.44	50.84	1.4	nil					50.60	53.64	nil					
												53.64	56.69	nil					
												56.69	59.74	10					
														20					
												59.74	62.79	nil					
51.91	57.12	INTERMEDIATE LAPILLI TUFF -green medium grained non-magnetic -1 to 10mm fragments in a fine grained matrix -fragments elongate parallel to foliation at 28 deg. to CA -consist dominatly of quartz and feldspar grains -2-3% quartz feldspar carbonate stringers throughout -Minor Pyrite										62.79	65.84	nil					
												65.84	68.80	nil					
												68.80	71.93	nil					
												71.93	74.98	nil					
												74.98	78.03	nil					
												78.03	81.08	nil					
												81.08	84.12	nil					
57.12	57.21	MAFIC DIKE, DIABASE -30-35% 1 to 2mm long mafic phenocrysts in a fine grained brown matrix -dike at 50 deg. to CA roughly parallel to foliation										90.22	93.27	nil					
												93.27	96.32	10					
												96.32	99.36	nil					
												99.36	102.40	nil					
57.21	81.50	INTERMEDIATE TUFF -green fine to medium grained non-magnetic -very hard, sand like in appearance -1 to 3mm quartz and feldspar fragments throughout -occasional fragments up to 5mm in diameter -minor pyrite occurs along fractures										102.40	105.46	nil					
												105.40	108.51	nil					
												108.51	111.56	nil					
												111.56	114.60	20					
														30					
												114.60	117.65	nil					

PH

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF86-05 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)				SLUDGE			MAGNETICS		
							AU	1st pulp	2nd pulp	AU	FROM	TO	MGT. %			
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
		-2 to 3% quartz, carbonate, feldspar veins									117.65	120.70	nil			
57.91	59.44	Fine grained foliation at 30 deg. to core axis									120.70	123.75	nil			
61.47		Pyrite on fracture surfaces									123.75	126.80	nil			
											126.80	129.84	nil			
65.90	67.36	Fine grained, foliation at 41 deg. to core axis									129.84	132.89	nil			
											132.89	135.94	nil			
69.28		5cm quartz epidote carbonate feldspar vein at 45 deg. to core axis									135.94	138.99	nil			
											138.99	142.04	nil			
70.4		20 to 30% 1 to 2mm white feldspar and quartz fragments, foliation at 37 deg. to core axis									142.04	145.08	nil			
											145.08	148.13	nil			
											148.13	151.18	nil			
											151.18	154.23	nil			
											160.32	163.37	nil			
74.82	74.89	Bedding in fine grained green brown section at 32 deg. to core axis									163.37	166.42	nil			
		Lower contact at 42 deg. to core axis									166.42	169.47	20			
											169.47	171.91	10			
											171.91	175.56	30			
81.50	81.93	MAFIC DIKE DIABASE											100			
		-fine grained dark green non-magnetic									175.56	178.61	20			
		-3 to 5% pyrite disseminated throughout									178.61	181.05	30			
		-lower contact at 40% to core axis									No Tag		10			
		-parallel to foliation														
81.93	87.41	INTERMEDIATE TUFF	7079	82.36	83.82	1.46	nil									
		-similar to 57.21 to 81.50	7080	85.25	86.72	1.47	nil									
		-variations in thicknesses of bedding and in fragment size increases														
		-pyrite occurs along fractures														
		-@ 86.38 to 86.50: quartz feldspar carbonate mass														
		-lower contact at 47 deg. to core axis														

912

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF86-05 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE		ASSAY (CORE)					SLUDGE		MAGNETICS				
			NUMBER	FROM TO	METERS	AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.		
							ppb	ppb	ppb	ppb			ppb			%
		minor disseminated pyrite														
96.26	98.57	MAFIC DIKE, DIABASE fine grained dark green weakly magnetic -minor pyrite with quartz carbonate epidote stringers and along fractures	7083	97.84	99.36	1.52	nil									
98.57	107.68	INTERMEDIATE TUFF -similar to 89.58 to 96.25	7084	99.86	100.83	1.47	nil									
107.68	112.2	FELDSPAR PORPHYRY DIKE 20% quartz veins and stringers at all angles to core axis Minor disseminated pyrite	7085	102.20	103.69	1.49	nil									
			7086	106.47	107.96	1.49	nil									
			7087	107.96	109.33	1.37	nil	nil								
			7088	109.33	110.73	1.40	nil									
			7089	110.73	112.17	1.44	nil									
112.2	115.73	INTERMEDIATE TUFF -similar to 98.57 to 107.68 but slightly coarser texture	7090	112.17	113.69	1.52	nil									
115.73	116.89	FELDSPAR PORPHYRY DIKE	7091	116.59	118.05	1.46	nil									
116.89	132.56	INTERMEDIATE TUFF -same as 112.2 to 115.73	7092	118.05	119.48	1.43	nil									
132.56	135.33	CONGLOMERATE 5 to 15cm rounded clasts in matrix similar to above tuff -clasts and matrix similar in composition -minor mafic volcanic clasts	7093	125.27	126.74	1.47	nil									
			7094	126.74	128.14	1.40	nil									
			7095	128.14	129.30	1.16	nil									
135.33	147.58	INTERMEDIATE TUFF -SIMILAR TO 116.89 TO 132.56	7096	144.84	146.3	1.46	nil									
147.58	153.13	FELDSPAR PORPHYRY DIKE														

QW

LAC MINERALS LTD.
GEOLOGICAL AND ASSAY DATA

DRILL HOLE: LF86-05 PROPERTY: Meunier TARGET:

FROM	TO	REMARKS	SAMPLE NUMBER	FROM	TO	METERS	ASSAY (CORE)					SLUDGE			MAGNETICS		
							AU	1st pulp	2nd pulp	FROM	TO	AU	FROM	TO	MGT.		
							ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	%
		-coarse textured -large pink white feldspar phenocrysts in finer grained pink matrix	7097	148.97	150.39	1.42	nil	nil									
153.13	157.00	FELDSPAR PORPHYRY DIKE -fine grained pink															
157.00	157.45	FELDSPAR PORPHYRY DIKE -same as 147.58 to 153.13 -course texture -large pink white feldspar phenocrysts in a finer grained pink matrix															
157.45	181.00	INTERMEDIATE TUFF -similar to 135.33 to 147.58 -specular hematite occurs with quartz feldspar veins	7098	163.34	164.84	1.50	nil										
			7099	164.84	166.27	1.43	nil										
			7100	166.27	167.85	1.58	nil										
			7101	167.85	169.26	1.41	nil										
			7102	172.15	173.43	1.28	nil										
			7103	173.43	174.95	1.52	nil										
			7104	174.95	176.48	1.53	nil										
		End of Hole at 181															

*John
Kawah*



Report of Work
(Geophysical, Geological,
Geochemical and Expenditures)

W A 706-106

Am.
Mi



42A02NW0023 2.10244 FALLON

900

... areas below.

Type of Survey(s) Expenditures (Sludge and Core Assays)	Township or Area Fallon Township
Claim Holder(s) David Meunier	Prospector's Licence No. M-17157
Address 403 Dome St., South Porcupine, Ontario	
Survey Company Swastika Laboratories Ltd.	Date of Survey (from & to) 31 07 86 & 31 03 87 Day Mo. Yr. Day Mo. Yr.
Name and Address of Author (of Geo-Technical report) John Kovala, 91 Duncan Ave., Kirkland Lake, Ontario P2N 1Y2	

Credits Requested per Each Claim in Columns at right			Mining Claims Traversed (List in numerical sequence)		
Special Provisions	Geophysical	Days per Claim	Mining Claim		Expend. Days Cr.
			Prefix	Number	
For first survey: Enter 40 days. (This includes line cutting)	- Electromagnetic		P	758434	40
	- Magnetometer			758440	40 13
	- Radiometric			758439	40 08
	- Other			714952 758952	40 08
For each additional survey: using the same grid: Enter 20 days (for each)	Geological			758819	20
	Geochemical			758818	33
					213
Man Days Complete reverse side and enter total(s) here	Geophysical	Days per Claim			
	- Electromagnetic				
	- Magnetometer				
	- Radiometric				
Airborne Credits Note: Special provisions credits do not apply to Airborne Surveys.	Geophysical	Days per Claim			
	- Electromagnetic				
	- Magnetometer				
	- Radiometric				

Expenditures (excludes power stripping)

Type of Work Performed (Sect. 17-19)
Sludge and Core Assays

Performed on Claim(s)
P663910, P663467, P663470,
P725248, P741732

Calculation of Expenditure Days Credits

Total Expenditures		Total Days Credits
\$ 3,188.94	÷ 15	= 213

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

Mining Claim		Expend. Days Cr.	Mining Claim		Expend. Days Cr.
Prefix	Number		Prefix	Number	
P	758434	40			
	758440	40 13		(maximum reached)	
	758439	40 08		(maximum reached)	
	714952 758952	40 08		(maximum reached)	
	758819	20			
	758818	33			
		213			

Date
May 22, 1987

Recorded Holder or Agent (Signature)
John Kovala

RECEIVED
MAY 25 1987

RECORDED
MAY 25 1987

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
154	May 25/87	<i>[Signature]</i>
	Date Approved as Recorded	
	1987-08-28	<i>[Signature]</i>

Total number of mining claims covered by this report of work. **6**

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
John Kovala, 91 Duncan Ave., Kirkland Lake,

Date Certified
May 22, 1987

Certified by (Signature)
[Signature]

SWASTIKA INVOICES



13520

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

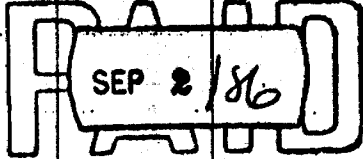
SOLD TO

Iac Minerals Limited
Exploration Division
91 Duncan Avenue
Kirkland Lake, Ontario
P2N 1Y2

Att'n: Mr. C. Degg

**S
H
I
P
T
O**

1.5% late charge over 30 days
(annual rate 18%)

DATE July 31/86	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS Net 30 days	SALESMAN
QUANTITY	DESCRIPTION				UNIT PRICE	AMOUNT	
51	Au assays				\$ 8.50	\$ 433.50	
51	Sample Handling				2.75	140.25	
	Cart.#63766 July 31, 1986						
					Sub-total.....	573.75	
					-10% discount	SWASTIKA LABORATORIES LTD.	
						 WITH THANKS PER <i>D. Gardner</i>	
					TOTAL.....	\$ 516.39	

MCORL BUSINESS FORMS 3 706/01

FACTURE / INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928



JH



13591

SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

SOLD TO

Lac Minerals Limited
Exploration Division
91 Duncan Avenue
Kirkland Lake, Ontario
P2N 1Y2 Att'n: Mr. C. Pegg

S
H
I
P
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O

1.5% late charge over 30 days
(annual rate 18%)

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Aug. 15/86						Net 30 days	
QUANTITY	DESCRIPTION					UNIT PRICE	AMOUNT
20	Au assays					\$ 8.50	\$ 170.00
20	Sample Handling					2.75	55.00
	Cert.#63888 Aug. 12, 1986						
43	Au assays					8.50	365.50
43	Sample Handling					2.75	118.25
	Cert.#63911 Aug. 14, 1986						
sub-total.....						708.75	
						SWASTIKA LABORATORIES LTD	
-10% discount.....						70.88	
						SEP 2/86	
						WITH THANKS	
						PER <i>D. Gardner</i>	
TOTAL.....						\$ 637.87	

MOORE BUSINESS FORMS 3 7060E

FACTURE / INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928



JK



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

SOLD TO

Lac Minerals Limited
Exploration Division
91 Duncan Avenue
Kirkland Lake, Ontario
P2N 1Y2 Att'n: Mr. C. Pegg

SHIP TO

1.5% late charge over 30 days
(annual rate 18%)

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	Net 30 days	SALESMAN
Sept. 5/86								
QUANTITY	DESCRIPTION						UNIT PRICE	AMOUNT
52	Au assays						\$ 8.50	\$ 442.00
52	Sample handling Cert. #64071 Aug. 29, 1986						2.75	143.00
33	Au assays						8.50	280.50
33	Sample handling Cert. #64079 Aug. 29, 1986						2.75	90.75
41	Au assays						8.50	348.50 ¹
41	Sample handling Cert. #64096 Sept. 3, 1986						2.75	112.75
							Sub-total.....	1417.50
							-10% discount.....	141.75
							TOTAL.....	\$ 1275.75

SWASTIKA LABORATORIES LTD.

PAID
SEP 29 / 86

WITH THANKS
PER *D. Gardner*

MOORE BUSINESS FORMS 3 7060E

FACTURE / INVOICE

ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928



JK



SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

SOLD TO
 Lac Minerals Limited
 Exploration Division
 91 Duncan Avenue
 KIRKLAND LAKE, Ontario
 P2N 1Y2 Att'n: Mr. C. Pegg

SHIP TO
 1.5% late charge over 30 days
 (annual rate 18%)

DATE	SHIPPED VIA	FED LICENCE NO	PROV LICENCE NO	YOUR ORDER NO	OUR ORDER NO	TERMS	SALESMAN
Sept. 5/86						Net 30 days	
QUANTITY	DESCRIPTION					UNIT PRICE	AMOUNT
40	Au assays					\$ 8.50	\$ 340.00
40	Sample Handling Cart.#64112 Sept. 4, 1986					2.75	110.00
Sub-total.....							450.00
-10% Discount.....							45.00
TOTAL.....							\$ 405.00

SWASTIKA LABORATORIES LTD
 SEP 29 / 86

WITH THANKS
 PER *D. Gardner*

MOORE BUSINESS FORMS 3 7060E

FACTURE / INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS ESTABLISHED 1928

9/15



SWASTIKA LABORATORIES LIMITED
 P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

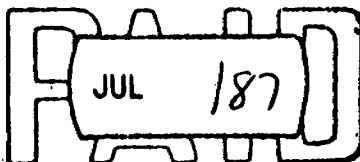
15269

JOUR 12
 DAY
 DATE MOIS JUNE
 MONTH
 ANNEE 1987
 YEAR

TRANSPORTEUR
 SHIPPED VIA

NDU A ID 10
Lac Minerals Limited (Exploration Division)
 91 Duncan Avenue
 Kirkland Lake, Ontario
 P2N 1Y2
 Attention: Mr. C. Pegg

1.5% LATE CHARGE OVER 30
 DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FED	NO. D'EXEMPT. DE TAXE PROV	VOTRE NO DE COMMANDE	NOTRE NO DE COMMANDE	CONDITIONS NET 30 DAYS	REP. DES VENTES
FED. LICENCE NO.	PROV. LICENCE NO.	YOUR ORDER NO.	OUR ORDER NO.	TERMS	SALES REP.
QUANTITE QUANTITY	DESCRIPTION			PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
32	Au assays			\$ 8.75	\$ 280.00
32	Sample Handling Cert.#66761 June 8, 1987			3.00	96.00
1	Au assay using a 1 A.T. fusion			9.75	9.75
1	Ag PPM			4.20	4.20
1	Sample Handling Cert.#66830 June 12, 1987 (V. Venn)			3.00	3.00
SWASTIKA LABORATORIES LTD.					
					
Sub-total.....					392.95
-10% discount.....					39.29
PER <u>D. Gardner</u> WITH THANKS TOTAL.....					\$ 353.66

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
 ESTABLISHED 1928



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SWASTIKA LABORATORIES LIMITED

P.O. BOX 10, SWASTIKA, ONTARIO P0K 1T0 TELEPHONE: (705) 642-3244

JOUR 20 DAY	DATE MOIS March MONTH	ANNEE 1987 YEAR
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TRANSPORTEUR

SHIPPED VIA

NDU A
LD 10

Lac Minerals Ltd., Exploration Division
91 Duncan Ave.
Kirkland Lake, Ontario
P2H 1Y2
Att'n: Mr. C. Pegg

1.5% LATE CHARGE OVER 30 DAYS (ANNUAL RATE 18%)

QUANTITE QUANTITY	DESCRIPTION	PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
27	Au assays	\$ 8.50	\$ 229.50
27	Sample Handling	2.75	74.25
	Cert.#66028 March 20, 1987		
	Sub-total.....		303.75
	SWASTIKA LABORATORIES LTD. 10% discount.....		30.38
	TOTAL.....		\$ 273.37

SWASTIKA LABORATORIES LTD.

 WITH THANKS
 PER D. Gardner

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
ESTABLISHED 1928

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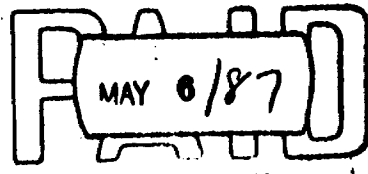


SWASTIKA LABORATORIES LIMITED
P.O. BOX 10, SWASTIKA, ONTARIO POK 1T0 TELEPHONE: (705) 642-3244

DATE: JOUR 31, MOIS March, ANNEE 1987, YEAR
TRANSPORTEUR: SHIPMENT VIA

NDU A LD TO
Lac Minerals Limited, Exploration Division
91 Duncan Avenue
Kirkland Lake, Ontario
P2N 1Y2
Att'n: Mr. C. Pegg

1.5% LATE CHARGE OVER 30
DAYS (ANNUAL RATE 18%)

NO. D'EXEMPT. DE TAXE FED.		NO. D'EXEMPT. DE TAXE PROV.		VOTRE NO. DE COMMANDE	NOTRE NO DE COMMANDE	CONDITIONS NET 30 DAYS	REP. DES VENTES
FED LICENCE NO		PROV LICENCE NO		YOUR ORDER NO	OUR ORDER NO	TERMS	SALES REP
QUANTITE QUANTITY	DESCRIPTION					PRIX UNITAIRE UNIT PRICE	MONTANT AMOUNT
51	Au assays					\$ 8.50	\$ 433.50
51	Sample Handling					2.75	140.25
	Cert.#66062 March 24, 1987						
3	Chromium PPM					5.25	15.75
	Cert.#65956A March 27, 1987						
SWASTIKA LABORATORIES LTD.						Sub-total.....	589.50
 WITH THANKS PER <u>W. Gardner</u>						-10% discount..	58.95
TOTAL.....							\$ 530.55

FACTURE/INVOICE ANALYTICAL CHEMISTS • ASSAYERS • CONSULTANTS
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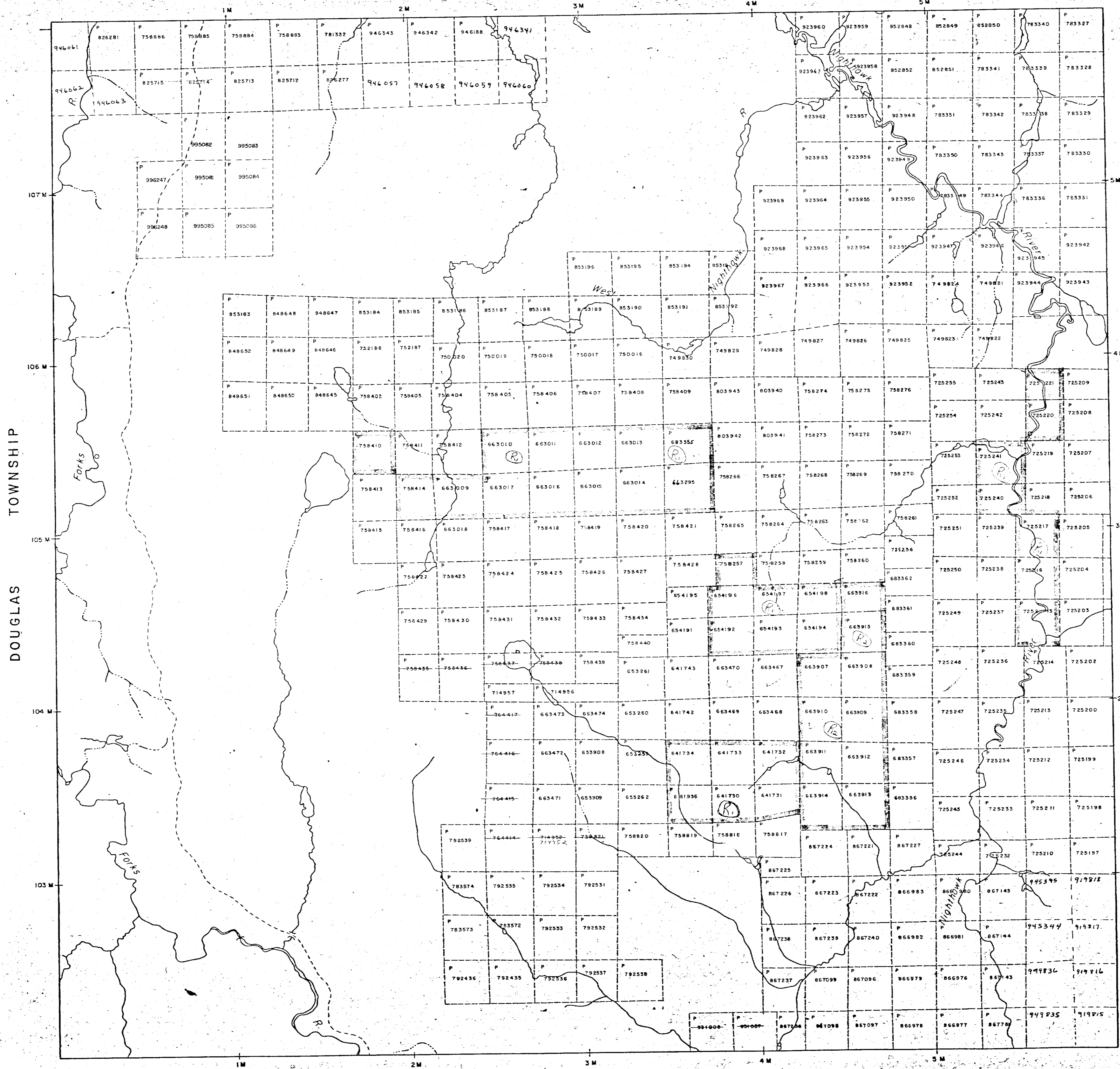
9/15

AREAS WITHDRAWN FROM DISPOSITION

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

Description Order No. Date Disposition File

LANGMUIR TOWNSHIP



CLEAVER TOWNSHIP

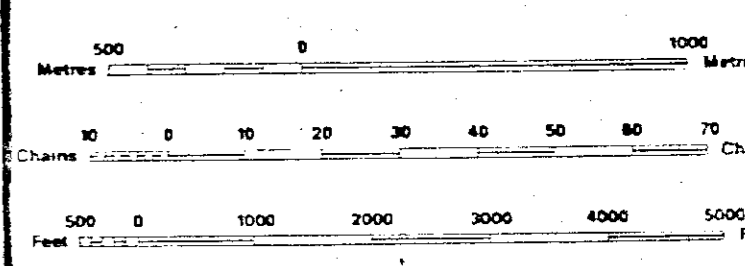
LEGEND

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

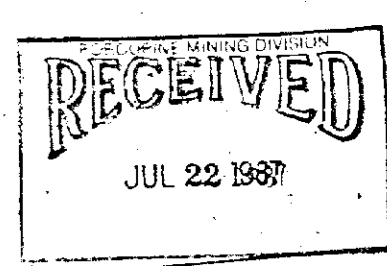
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 1, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



SCALE 1:20 000

The Mining and Surface Rights of the former Mining Claims P-64173 of all are withdrawn from staking by ORDER NW-50/87

The Mining and Surface Rights of the former Mining Claims P-56307 of all are withdrawn from staking by ORDER NW-62/87



TOWNSHIP
FALLON
 M.M.R. ADMINISTRATIVE DISTRICT
TIMMINS
 MINING DIVISION
PORCUPINE
 LAND TITLES / REGISTRY DIVISION
TIMISKAMING

Ministry of Natural Resources Ontario
 Ministry of Northern Development and Mines

Date: SEPTEMBER, 1986
 checked: [Signature]
 Number: **G-3941**

