DIAMOND DRILLING

Township: Morrisette

Report No: 24

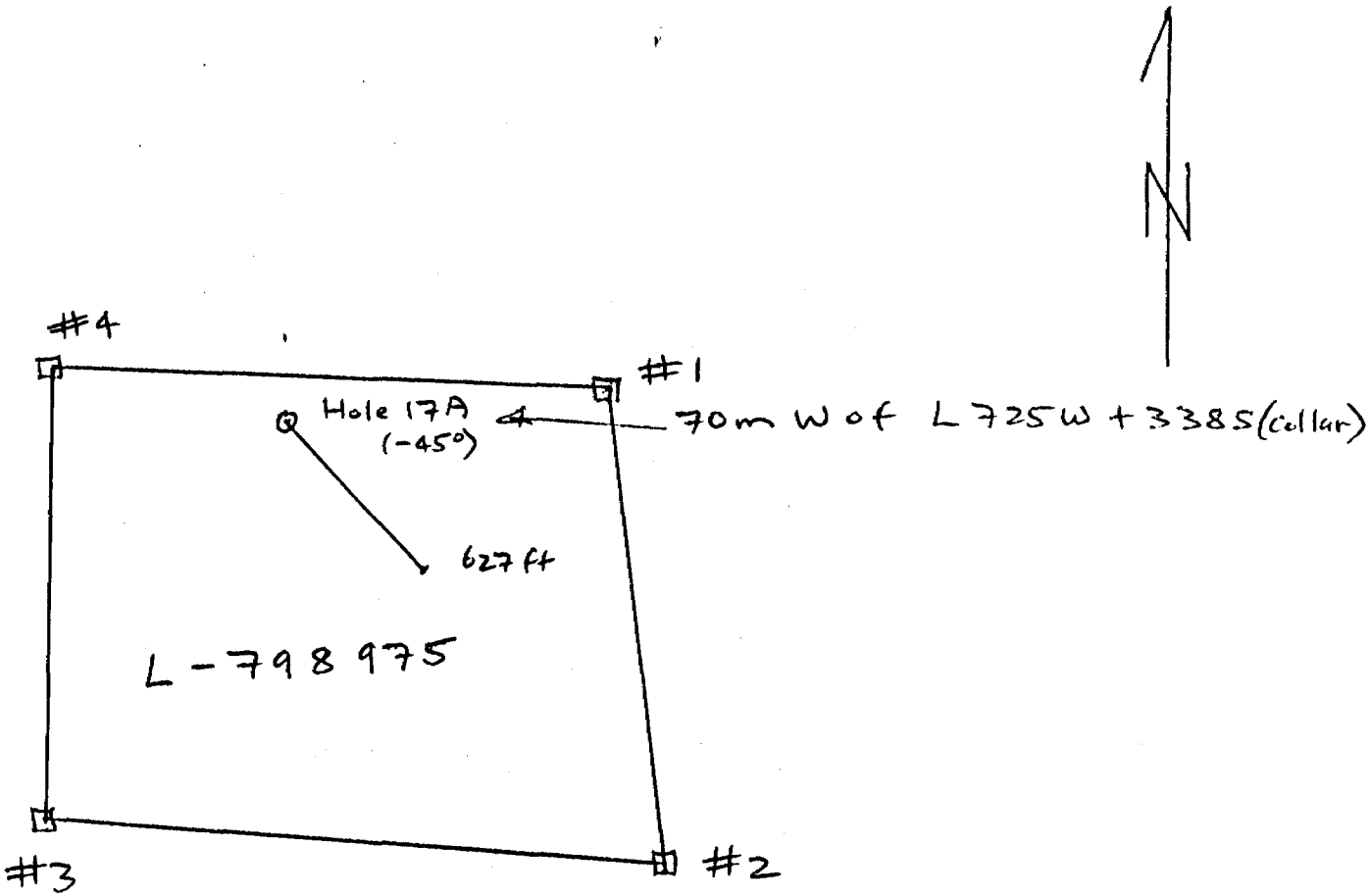
WORK PERFORMED FOR: Lac Minerals Ltd.

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
L 798975	M17-A	627'	Sept/85	(1)
L 803346	M21-A	557'	Oct/85	(1)

NOTES: (1) #400-86 (Filed in May/87)



Drill Hole Location Plan
Hole M17A
Morrisette Twp, ONT.

cep.

scale 1:5,000

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Exploration Division
91 Duncan Ave. S.
Kirkland Lake, Ont. P2N 3K2
SHEET No. 1

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER M 17 - A
PAGE No. 1 OF 5
LOGGED BY G. Morris
DATE September 21, 1985

PROJECT Project Kirkland Lake TYPE OF HOLE D.D.H ☒ R.D.H. ☐ P.D.H ☐

LEGEND

ARGL	argillite	MUDS	mudstone	AZ	azurite	CY	clay	M	marvbdenite
BRXY	breccia	MYLN	mylonite	BI	biotite	EP	epidote	MG	magnetite
GREY	greywacke	RHYL	rhyolite	BL	bleached	GR	graphite	OX	oxide zone
GOUG	gouge	SILT	siltstone	BO	bornite	GY	gypsum	PY	pyrite
HORN	hornfels			CA	calcite	HE	hematite	QZ	quartz
PPBT	biotite porphyry	OVB	overburden	CB	carbonate	KA	kaolin	SA	saussenite
PPBZ	biotite hornblende porphyry	DYK	dyke	CC	chalcocite	KF	ksoar	SE	serpentine
PPHO	hornblende porphyry			CP	cuprite	LI	limonite	SH	shear
PPQB	quartz-biotite porphyry			CV	chalcopyrite	MC	malachite	SI	siliceous
				CL	chlorite	MO	mud seam	TA	talc
						MO	molybdenum	X	shattered rock

HOLE LOCATION WITH RESPECT TO CLAIMS

0' - 45°
250' - 41°
500' - 42°
627' - 40°

LOCATION L7+25W-3+38S AZIM. S45°W DIP -45°
COLLAR: LATITUDE 70M west of line DEPARTURE
ELEVATION: COLLAR BOTTOM
LENGTH: 627.0' RECOVERY 98 % CORE SIZE BQ
PURPOSE:
DATE: STARTED September 13, 1985 END September 19, 1985

CORE: METRES | LITHOLOGY | STRUCTURE ALTERATION | MINERALIZATION | TO

FROM	TO	DESCRIPTION	VISUAL ESTIMATE %CP %BO %M %Py	SAMPLE NUMBER	FROM	TO	METRES	ASSAY % Cu	% Cu O	% Mo.	AU gms/ton
0'	234.0'	Overburden sand, clay and large boulders from 225.0' - 234.0' large boulders: extreme difficulty in putting casing down, took 6-7 shifts.									
234.0'	351.7'	Rusty brown (intensely altered) to light green grey non-magnetic medium grained andesites; rusty brown sections are due to intense carbonate alteration; water running through the volcanics; a classic case of the hydro morfic effect; there are unaltered sections that are light green-grey in color with absence of carbonate veins and veinlets; rustybrown sections core is broken up badly. Pale green-grey - non-magnetic andesites grade into rusty brown sections with increase of carbonate. 1-2mm dark grey chlorite spots throughout both altered and unaltered sections. Carbonate and minor chlorite alteration throughout the comolete hole.									
		*From 234.0' - 267.8' light green-grey andesites slightly altered: 234.0' - 236.1' blocky core; 254.9' - 265.3' badly broken up core fault 10° to c.a. Minor Qzt-carbonate stringers throughout. No pyrite evident.									
		*From 267.8' - 278.8' - rusty brown altered andesites 268.7' - 271.0' broken core faulted section, fault parallel to c.a. 270.0' - 271.0' Qzt. vein grounded to gravel. 272.5' - 273.4' broken core: 278.0' - 278.8' broken core fault zone.									

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DRILL HOLE GEOLOGIC LOG

HOLE NUMBER M 17-A
PAGE No. 2 OF 5
LOGGED BY
DATE

PROJECT Project Kirkland Lake TYPE OF HOLE D.D.H ☐ R.D.H. ☐ P.D.H ☐

LEGEND

ARGL	argillite	MUDS	mudstone	AZ	azurite	CY	clay	M	monybdenite
BRXY	breccia	MYLN	mylonite	BI	biotite	EP	epidote	MG	magnetite
GREY	greywacke	RHYL	rhyolite	BL	bleached	GR	graphite	OX	oxide zone
GOUG	gouge	SILT	siltstone	BO	bornite	GY	gypsum	PY	pyrite
HORN	hornfels			CA	calcite	HE	hematite	QZ	quartz
PORP	biotite porphyry	OVB	overburden	CB	carbonate	KA	kaolin	SA	saussurite
PPB>	biotite hornblende porphyry	DYK	dyke	CC	chalcocite	KF	k-spar	SE	serpentine
PPH>	hornblende porphyry			CP	cuprite	LI	limonite	SH	shear
PPQB	quartz-biotite porphyry			CP	chalcopyrite	MC	meschvite	SI	siliceous
				CL	chlorite	MD	mud seam	TA	talc
						MO	molybdenum	X	shattered rock

HOLE LOCATION WITH RESPECT TO CLAIMS

LOCATION _____ AZIM. _____ DIP _____
COLLAR: LATITUDE _____ DEPARTURE _____
ELEVATION: COLLAR _____ BOTTOM _____
LENGTH: _____ RECOVERY _____ % CORE SIZE _____
PURPOSE: _____
DATE: STARTED _____ END _____

CORE METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE %CP	%BO	%M	%PY	SAMPLE NUMBER	FROM	TO	METRES	ASSAY % Cu	% Cu O	% Mo.	AU gms/mt
							*278.8' - 296.6' light green-grey to light brown andesites. Broken core sections 279.8' - 280.2' gravel; 280.5' - 280.9' badly broken Qzt. 283.1' - 284.2' badly broken core slip 15° to c.a.; at 286.2' .1' broken core; 290.0' - 290.4' grounded; 291.1' - 291.6' grounded croe: 295.8' - 296.2' grounded core slip parelle! to c.a. Qzt vein from 279.8' - 280.9'. Minor carbonate stringers throughout. *296.6' - 305.6' rusty brown to light green altered andesites. Broken core 300.8' - 301.5' grounded; at 301.7' .1' core broken slip 10° c.a.; 304.2' -305.6' broken core slip parallel to c.a. *305.6' - 312.8" light green slightly altered andesites broken core from 307.2' - 307.5' grounded. Minor Qzt. carbonate veins veinlets 20°-30° to c.a. *312.8' - 314.8' rusty brown altered andesites grounded core sections; from 314.0' - 314.8' milky white Qzt. veins grounded core ; Qzt. is vuggy indicating water travel through Qzt.. *314.8' - 328.1' light green-grey U/A andesites with a few sections moderately altered andesites. Core throughout section blocky 1-2 core lengths. Absence of carbonate in light green-grey andesite sections. 324.6' - 324.8' milky white broken up Qzt. vein vuggy *328.1' - 329.1' rusty brown altered andesite section. Carbonate alteration no evidence of pyrite. upper and lower contacts. *329.1' - 329.7' U/A light green-grey andesite												

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DRILL HOLE GEOLOGIC LOG

HOLE NUMBER M 17-A
PAGE No. 3 OF 5
LOGGED BY
DATE

PROJECT Project Kirkland Lake TYPE OF HOLE D.D.H ☒ R.D.H. ☐ P.D.H ☐

LEGEND

ARGL	argillite	MUDS	mudstone	AZ	azurite	CY	clay	VI	morvbdenite
BRXY	breccia	MYLN	mylonite	BI	biotite	EP	epidote	MG	magnetite
GREY	greywacke	RHYL	rhyolite	BL	bleached	GR	granite	OX	oxide zone
GOUG	gouge	SILT	siltstone	BO	bornite	GY	gypsum	PY	pyrite
HORN	hornfels			CA	calcite	HE	hematite	QZ	quartz
PPBI	biotite porphyry	OVB	overburden	CB	carbonate	KA	kaolin	SA	saussenite
PPEH	biotite hornblende porphyry	DYK	dyke	CC	chalcocite	KF	k-spar	SE	serpentine
PPHO	hornblende porphyry			CP	cuprite	LI	limonite	SH	shear
PPQB	quartz-biotite porphyry			CV	chalcopyrite	MC	malachite	SI	siliceous
				CL	chlorite	MO	mud seam	TA	talc
						MO	molybdenum	X	shattered rock

HOLE LOCATION WITH RESPECT TO CLAIMS

LOCATION AZIM. DIP
COLLAR: LATITUDE DEPARTURE
ELEVATION: COLLAR BOTTOM
LENGTH: RECOVERY % CORE SIZE
PURPOSE:
DATE: STARTED END

CORE: METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE %CP %BO %M %PY	SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE METRES	ASSAY % Cu	ASSAY % Co	ASSAY % Mo	ASSAY AU gms mr
							*329.7' - 339.2' rusty brown altered andesites section is very blocky < .1' up to .4' core lengths. Intensely altered carbonate absence of pyrite, @ 330.8' slip @ 10° to c.a.' @ 333.6' slip 12° to c.a.; @ 335.0' slip @ 12° to c.a.; @ 337.0' slip parallel to c.a.									
							*339.2' -347.0' light green-grey U/A andesites very blocky core .1' to .2' core lengths. *347.0' - 351.7' rusty brown altered andesites very blocky core and grounded in places .01 core sections.									
					351.7	448.2'	Light green-grey to dark grey non-magnetic andesites. While Qzt.-Carbonate veins and veinlets throughout section @ various angles to c.a.; same as above section only fresher. 351.7' - 355.0' very blocky core up to .1' core lengths, fracture slip 10° to c.a.; 357.0' - 358.8' blocky core fractures 15° to c.a.; 367.0' - 368.3' blocky core fractures high angle to c.a.; 373.5' - 387.0' blocky and broken core with high angle slips to c.a.; (381.1' - 385.6' milky white Qzt.-carbonate vein, with chert no pyrite evident) 385.6' - 386.6' fault gouge with mud. Upper contact @ 385.6' 85° to c.a. lower contact 80° to c.a. From 387.0' to end of hole core is not blocky. 431.7' - 434.7' milky white Qzt-carbonate-(calcite) vein with inclusions of the andesite. @ 440.0 .2' Qzt vein upper and lower contacts 25° to c.a.									

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DRILL HOLE GEOLOGIC LOG

HOLE NUMBER M 17-A
PAGE No. 4 OF 5
LOGGED BY
DATE

PROJECT Project Kirkland Lake TYPE OF HOLE D.D.H ☒ R.D.H. ☐ P.D.H ☐

LEGEND

ARGL	argillite	MUDS	mudstone	AZ	azurite	CY	clay	M	marvbdenite
BRXY	breccia	MYLN	mylonite	BI	biotite	EP	epidote	MG	magnetite
GREY	greywacke	RHYL	rhyolite	BL	bleached	GR	graphite	OX	oxide zone
GOUG	gouge	SILT	siltstone	BO	bornite	GY	gypsum	PY	pyrite
HORN	hornfels			CA	calcite	HE	hematite	QZ	quartz
PPBI	biotite porphyry	OVB	overburden	CB	carbonate	KA	kaolin	SA	saussenite
PPB>	biotite hornblende porphyry	DYK	dyke	CC	chalcocite	KF	kaolin	SE	serpentine
PPHO	hornblende porphyry			CI	cuprite	LI	limonite	SH	shear
PPQB	quartz-biotite porphyry			CP	chalcopyrite	MC	malachite	SI	siliceous
				CL	chlorite	MD	mud seam	TA	talc
						MO	molybdenum	X	shattered rock

HOLE LOCATION WITH RESPECT TO CLAIMS

LOCATION AZIM. DIP
COLLAR: LATITUDE DEPARTURE
ELEVATION: COLLAR BOTTOM
LENGTH: RECOVERY % CORE SIZE
PURPOSE:
DATE: STARTED END

CORE: METRES | LITHOLOGY | STRUCTURE ALTERATION | MINERALIZATION | TO

FROM	TO	DESCRIPTION	VISUAL ESTIMATE %C %BO %M %Py	SAMPLE NUMBER	FROM	TO	METRES	ASSAY % Cu	% Cu O	% Mo	AU gms/mt
		441.1' - 441.5' milky white Qzt. vein upper and lower contacts sharp but irregular. @ 444.0' 1.3mm amygdules throughout section. No preserved textures in section due to intense carbonate alteration. There is some evidence for rounded clastes but due to intense carbonate alteration they are hard to distinguish. Qzt-carbonate-veins-stringer veinlets are from 10 - 80° to c.a. throughout entire section									
448.2	459.2'	Dark green-grey non-magnetic intensely brecciated andesite. Qzt.-carbonate veins cutting through section with inclusions of andesite. The clastes are very angular and up to 2cm in size. Matrix is composed of calcite. The brecciation appears to be due to secondary Qzt.-carbonate flooding. No pyrite evident.									
459.2	501.8'	Pale green-grey andesite and agglomerates. Non-magnetic lower contact @ 501.8' - 80° to c.a. Carbonate and Qzt. stringers and veinlets throughout section @ various angles to c.a. frequency of 8 per foot from 482.0' - 501.8', the carbonate alteration becomes weaker and there is evidence of large amygdaloidal clastes up to 4' throughout this section. The clastes look very pumiceous looking. No broken core section evident - absence of pyrite.									
501.8	504.8'	Light grey fine grained non-magnetic dacite. Upper contact shows at 80° to c.a. Lower contact sharp @ 30° c.a. 1 - 2mm Qzt. replaced amygdules throughout sections milky white Qzt. veins @ 80° and 70° throughout 2 per foot.									

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DRILL HOLE GEOLOGIC LOG

HOLE NUMBER M 17-A
PAGE No. 5 OF 5
LOGGED BY
DATE

PROJECT Project Kirkland Lake TYPE OF HOLE D.D.H. ☒ R.D.H. ☐ P.D.H ☐

CORE: METRES | LITHOLOGY | STRUCTURE ALTERATION | MINERALIZATION | TO

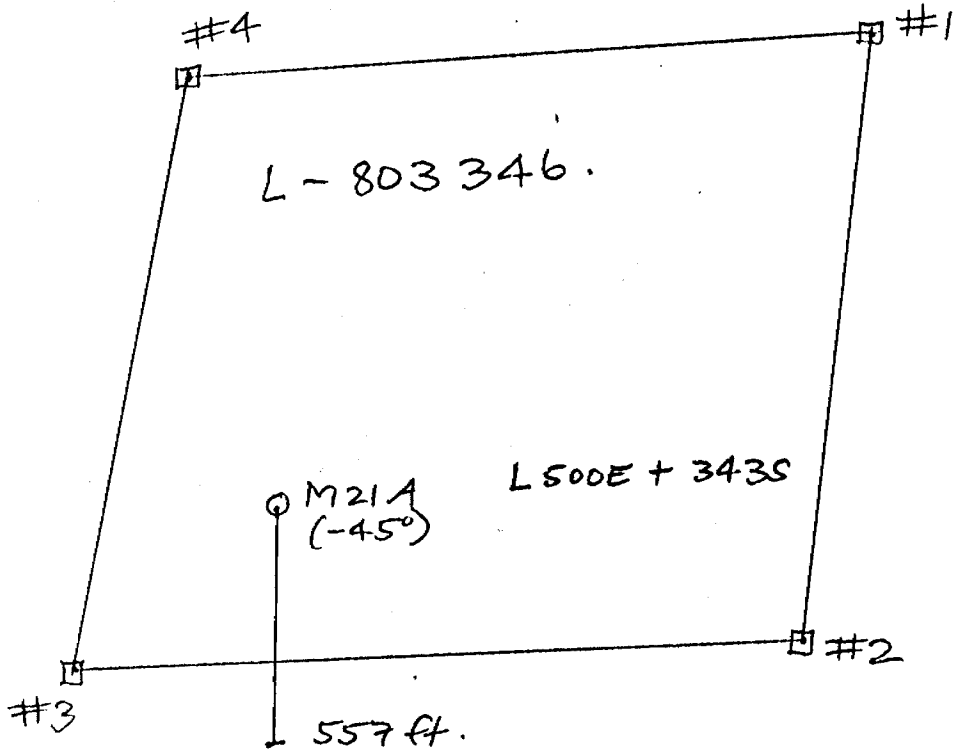
LEGEND

ARGL	argillite	MUDS	mudstone	AZ	azurite	CY	clay	M	marvbdenite
BRXY	breccia	MYLN	mylonite	BI	biotite	EP	epidote	MG	magnetite
GREY	greywacke	RHYL	rhyolite	BL	bleached	GR	graphite	OX	oxide zone
GOUG	gouge	SILT	siltstone	BO	bornite	GY	gypsum	PY	pyrite
HORN	hornfels			CA	calcite	HE	hematite	QZ	quartz
PPBI	biotite porphyry	OVB	overburden	CB	carbonate	KA	kaolin	SA	saussenite
PPB>	biotite hornblende porphyry	DYK	dyke	CC	chalcocite	KF	ksoar	SE	serpentine
PPHO	hornblende porphyry			CI	cuprite	U	limonite	SH	shear
PPQB	quartz-biotite porphyry			CP	chalcopyrite	MC	malachite	SI	siliceous
				CL	chlorite	MO	mud seam	TA	talc
						MO	molybdenum	X	shattered rock

HOLE LOCATION WITH RESPECT TO CLAIMS

LOCATION AZIM. DIP
COLLAR: LATITUDE DEPARTURE
ELEVATION: COLLAR BOTTOM
LENGTH: RECOVERY % CORE SIZE
PURPOSE:
DATE: STARTED END

FROM	TO	DESCRIPTION	VISUAL ESTIMATE %CP %BO %M %Py	SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE METRES	ASSAY % Cu	ASSAY % Cu O	ASSAY % Mo.	ASSAY AU gms per
504.8	520.8'	Light grey-green non-magnetic unaltered agglomerates. Lower contact 50° to c.a. Clastes are same composition as above unit with amygdules. Clastes are rounded to sub-rounded in a fine grained matrix. Range in size from 3cm up to 7 cm. Contacts with matrix are sharpe to gradational. They appear originally to be very pummous and are consistantly the same composition, this section contains less amounts of Qzt.-carbonate veining frequency is 3-4 per foot. Alteration is not so pervaise so clastes are easily distinguished.									
520.8	526.5'	Light grey fine grained unaltered dacite lower contact sharp but irregular @ 50° to c.a. Same as above unit from 501.8' - 504.8'. 1 - 2mm Qzt. replaced amygdules; thin Qzt.-carbonate-chlorite stringers cutting through section from 522.0' - 523.2' @ various angles to c.a.									
526.5	627.0'	Light green fine grained non-magnetic unaltered agglomerates, same as above unit from 504.8' - 520.8'. The clastes consistly contain 1 - 5mm dark green-white am and range in size from 4cm up to 15cm. Clastes are rounded to sub-rounded and same composition. No pyrite evident. Minor Qzt.-carbonate veins and veinlets 4 per foot to end of section.									



N

Drill Hole Location Plan
Hole M21A.
Morrisette Twp, ONT.

Scale 1:5,000 COP

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DRILL HOLE GEOLOGIC LOG

HOLE NUMBER M-21-A
PAGE No. 1 OF 3
LOGGED BY G. Morris
DATE October 30.1985

PROJECT Project Kirkland Lake TYPE OF HOLE D.D.H ☐ R.D.H. ☐ P.D.H ☐

LEGEND

ARGL	argillite	MUDS	mudstone	AZ	azurite	CY	clay	M	molybdenite
BRXY	breccia	MYLN	mylonite	BI	biotite	EP	epidote	MG	magnetite
GREY	greywacke	RHYL	rhyolite	BL	bleached	GR	graphite	OX	oxide zone
GOUG	gouge	SILT	siltstone	BO	bornite	GY	gypsum	PY	pyrite
HORN	hornfels			CA	calcite	HE	hematite	QZ	quartz
PPBI	biotite porphyry	OVB	overburden	CB	carbonate	KA	kaolin	SA	saussurite
PPHO	hornblende porphyry	DYK	dyke	CC	chalcocite	KF	kspar	SE	serpentine
PPQB	quartz-biotite porphyry			CP	cuprite	LI	limonite	SH	shear
				CPY	chalcopyrite	MC	malachite	SI	siliceous
				CL	chlorite	MO	molybdenum	TA	talc
								X	shattered rock

HOLE LOCATION WITH RESPECT TO CLAIMS
0' -45°
250' -39°
557' -39°

LOCATION Grid M21A L5+00E-3+43S AZIM. 180° DIP -45°
COLLAR: LATITUDE _____ DEPARTURE _____
ELEVATION: COLLAR _____ BOTTOM _____
LENGTH: 557.0 RECOVERY 98 % CORE SIZE BQ
PURPOSE: _____
DATE: STARTED October 26, 1985 END October 30, 1985

CORE: METRES | LITHOLOGY | STRUCTURE ALTERATION | MINERALIZATION | TO

FROM	TO	DESCRIPTION	VISUAL ESTIMATE %CP %BO %M %PY	SAMPLE NUMBER	FROM	TO	feet	ASSAY % Cu	Zn%	Au ppb
		No economic mineralization indicated in this bore hole.								
0	137.0	ØVB composed of sand, clay & boulders. (No overburden sample recovered)								
137.0	178.4	Pale gray unaltered non-magnetic medium to fine grained tuffs. From 137.0'-161.4' medium grained tuffs non-magnetic. Intense saussurite alteration throughout with white 1mm grains of carbonate 40% of unit. Secondary veins and of calcite throughout @ various angles C.A. lower contact gradational. From 161.4'-178.4' fine grained pale gray non-magnetic ash tuffs with well preserved bedding from 161.4'-167.5' that varies from 55°-59° C.A. Evidence of reworking @ 166.7' rip ups. The layering in the ash tuffs is very finely laminated, indicating quiencent period. Clevage angles vary from 50°-60° C.A throughout entire section. Lower contact @ 178.4' gradational. Minor secondary calcite veins and stringers @ various angles C.A. throughout.								
178.4	254.6	Pale gray-green magnetic to non-magnetic unaltered brecciated basalts (Hyaloclastites?) and breccias. Contacts between the brecciated basalts and breccias appears sharp, indicating primary texture preserved.								

cep.

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DRILL HOLE GEOLOGIC LOG

HOLE NUMBER M-21-A
PAGE No. 2 OF 3
LOGGED BY
DATE

PROJECT Project Kirkland Lake TYPE OF HOLE D.D.H ☒ R.D.H. ☐ P.D.H ☐

LEGEND

ARGL	argillite	MUDS	mudstone	AZ	azurite	CY	clay	M	molybdenite
BRXY	breccia	MYLN	mylonite	BI	biotite	EP	epidote	MG	magnetite
GREY	greywacke	RHYL	rhyolite	BL	bleached	GR	graphite	OX	oxide zone
GOUG	gouge	SILT	siltstone	BO	bornite	GY	gypsum	PY	pyrite
HORN	hornfels			CA	calcite	HE	hematite	QZ	quartz
PPBI	biotite porphyry	OVB	overburden	CB	carbonate	KA	kaolin	SA	saussurite
PPBH	biotite hornblende porphyry	DYK	dyke	CC	chalcocite	KF	k-spar	SE	serpentine
PPHO	hornblende porphyry			CU	cuprite	LI	limonite	SH	shear
PPQB	quartz-biotite porphyry			CP	chalcopyrite	MC	massive	SI	siliceous
				CL	chlorite	MD	mud seam	TA	talc
						MO	molybdenum	X	shattered rock

HOLE LOCATION WITH RESPECT TO CLAIMS

LOCATION _____ AZIM. _____ DIP _____
COLLAR: LATITUDE _____ DEPARTURE _____
ELEVATION: COLLAR _____ BOTTOM _____
LENGTH: _____ RECOVERY _____ % CORE SIZE _____
PURPOSE: _____
DATE: STARTED _____ END _____

CORE: METHES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE %CP	%BO	%MO	%PY	SAMPLE NUMBER	FROM	TO	METRES	ASSAY % Cu	% Cu O	% Mo.	AU gms/ton
							From 178.4'-183.7' pale gray non-magnetic breccia matrix supported black-gray geen clasts. From 183.7'-186.0' pale gray non-magnetic brecciated basalts. carbonate alteration throughout. From 186.0'-204.0' pale gray-green magnetic -non-magnetic breccias. Magnetic section from 197.0-204.0. Black angular magnetic and pale grey volcanic clasts throughout. Coarse blebs pyrite appears to be a ripped up iron formation. Clasts 8mm-5cm. 3-5% magnetite From 204.0'-264.6' pale gray-green non-magnetic brecciated basalts. Intense carbonate and sericite alteration throughout; minor pyrite (coarse) throughout entire section From 178.4'-264.6' cleavage angles vary from 50°055° C.A.											
					264.6	284.8	Pale gray unaltered non-magnetic medium grained amygdaloidal basalt. Amygdules 1-5mm calcite replaced. (saussurite alteration) Upper & lower contacts gradational. Coarse pyrite 264.7' associated secondary calcite vein 72°C.A. @ 279.0 6' secondary brecciation of basalts - calcite matrix											
					284.8	531.4	Pale gray-medium coarse grained massive (slightly magnetic) Andesites lower contact gradational with intense saussuritization. Epodote and calcite secondary stringers and veinlets throughout @ various C.A.. No volcanic textures evident (possible coarse flow?) No mineralization evident. Cleavage angles vary from 40°-55° C.A. From 335.0'-338.0' intense brecciation of basalts. secondary calcite flooding sharp upper contact 35°. lower contact 45° C.A.											

CEP.

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DRILL HOLE GEOLOGIC LOG

HOLE NUMBER M-21 A
PAGE No. 3 OF 3
LOGGED BY
DATE

PROJECT Project Kirkland Lake TYPE OF HOLE D.D.H. X R.D.H. ☐ P.D.H. ☐

LEGEND

ARGL	argillite	MUDS	mudstone	AZ	azurite	CY	clay	M	marcasite		
BRXY	breccia	MYLN	mylonite	BI	biotite	EP	epidote	MG	magnetite		
GREY	greywacke	RHYL	rhyolite	BL	bleached	GR	graphite	OX	oxide zone		
GOUG	gouge	SILT	siltstone	BO	bornite	GY	gypsum	PY	pyrite		
HORN	hornfels			CA	calcite	HE	hematite	QZ	quartz		
PPBI	biotite porphyry	OVB	overburden	CB	carbonate	KA	kaolin	SA	saussurite		
PPB>	biotite hornblende porphyry	DYK	dyke	CC	chalcocite	KF	kspar	SE	serpentine		
PPHQ	hornblende porphyry			CO	cuprite	LI	limonite	SH	shear		
PPQB	quartz-biotite porphyry			CP	chalcopyrite	MC	malachite	SI	siliceous		
				CL	chlorite	MD	mud seam	TA	talc		
						MO	molybdenum	X	shattered rock		

HOLE LOCATION WITH RESPECT TO CLAIMS

LOCATION AZIM. DIP
COLLAR: LATITUDE DEPARTURE
ELEVATION: COLLAR BOTTOM
LENGTH: RECOVERY % CORE SIZE
PURPOSE:
DATE: STARTED END

CORE: METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE %CP %BO %M %Pyl	SAMPLE NUMBER	SAMPLE FROM	SAMPLE TO	SAMPLE METRES	ASSAY % Cu	ASSAY % Cu O	ASSAY % Mo	ASSAY AU gms mt
					537.4	557.0	Pale gray fine grained non-magnetic breccia basalts. Foliation 60° C.A. Minor sericite calcite alteration. No evidence of mineralization. Cleavages 48°-50° C.A.									
							End of hole									
							The SM-5 magnetic susceptibility was used on core.									

Ministry of Northern Development and Mines

Ontario

Report of Work

4.C.0486

Mining

32D05SW0103 24 MORRISETTE

900

Name and Postal Address of Recorded Holder

Lac Minerals Ltd

91 Duncan Ave., Kirkland Lake, ONT P2N 1Y2

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed: 1711

for Performance of the following work. (Check one only)

- [ ] Manual Work
- [ ] Shaft Sinking Drifting or other Lateral Work.
- [ ] Compressed Air, other Power driven or mechanical equip.
- [ ] Power Stripping
- [x] Diamond or other Core drilling
- [ ] Land Survey

Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.	Mining Claim Prefix	Mining Claim Number	Work Days Cr.
	(see attached list)							

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All the work was performed on Mining Claim(s): L-798984, 803346, 798975.

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Duplicate Drill Logs and Location Sketches submitted with report of work.

Drilling Company:

Philippon Diamond Drilling Inc.,
829, Chemin Granada,
C.P. 788, Rouyn, Quebec
J9X 5C7.

Hole Depths

B17A – 527 ft
M17A – 627 ft
M21A – 557 ft.

1,711 ft or days

Date of Report	Recorded Holder or Agent (Signature)
Sept 22/86	Chris Pegg

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

Chris Pegg, 91 Duncan Ave., Kirkland Lake.
ONT P2N 1Y2.

Date Certified	Certified by (Signature)
Sept 22/86	Chris Pegg.

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work Shaft Sinking, Drifting or other Lateral Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Compressed air, other power driven or mechanical equip.	Type of equipment		
Power Stripping	Type of equipment and amount expended. **Note:** Proof of actual cost must be submitted within 30 days of recording.	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Diamond or other core drilling	Signed core log showing: footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate

Claim Numbers	Work Days Credit	Claim Numbers	Work Days Credit

A. B17 - Bisley Township (16 claims) Depth - 527 feet.

L-798980	35	L-798988	35
L-798981	35	L-798989	35
L-798982	35	L-798990	35
L-798983	35	L-798991	35
L-798984	35	L-798992	27
L-798985	35	L-798993	27
L-798986	35	L-798994	27
L-798987	35	L-798995	26

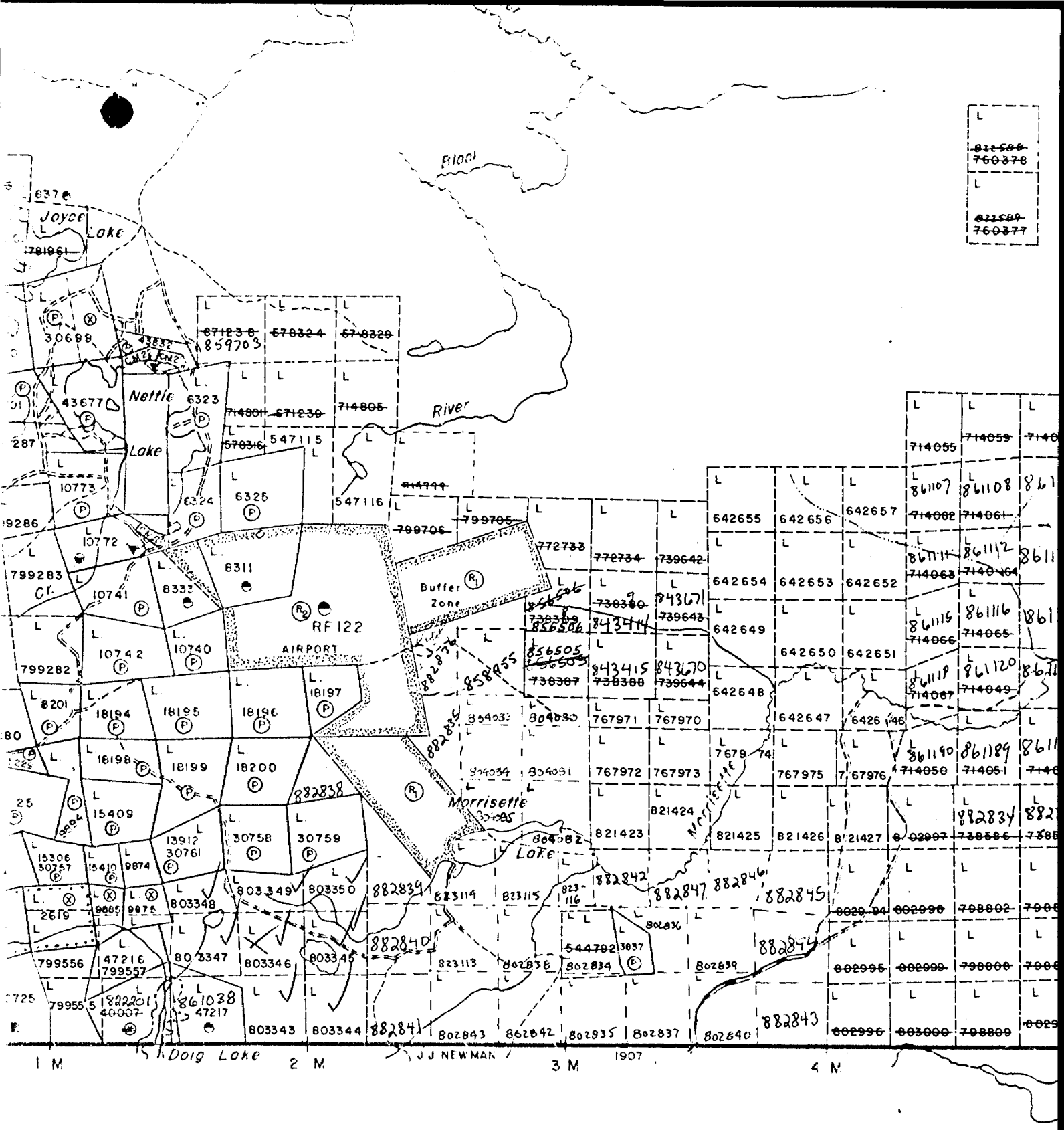
B. M17 - Morrisette Township (21 claims) Depth - 627 feet.

L-798959	30	L-798970	30
L-798960	30	L-798971	30
L-798961	30	L-798972	30
L-798962	30	L-798973	30
L-798963	30	L-798974	30
L-798964	30	L-798975	30
L-798965	30	L-798976	30
L-798966	30	L-798977	30
L-798967	30	L-798978	30
L-798968	30	L-798979	27
L-798969	30		

C. M21 - Morrisette Township (8 claims) Depth-557 feet.

L-803343	70	L-803347	70
L-803344	70	L-803348	70
L-803345	70	L-803349	70
L-803346	70	L-803350	67

Total 45 clms — 1711 Work days Credits.



Lebel Twp.

Morissette Twp

G3217

Manistee twp

Bisley Twp.

63217