



DIAMOND DRILLING

010

Township: BROTHERS (MOLSON LK).

Report No: #14

WORK PERFORMED FOR: LAC MINERALS LTD.

RECORDED HOLDER: SAME AS ABOVE [x]
: OTHER []

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
SSM 607752	I-8-7	168.86 m	April 86	(1)
607752	I-8-9	160.02 m	April 86	(1)
607753	I-8-8	138.66 m	April 86	(1)
607788	K-9-1	150.88 m	March/86	(1)
<i>TOTAL</i> 4 DH		<u>618.42 m</u>		

NOTES: (1) #46-86

LAC MINERALS LTD.

LEGEND FOR GEOLOGICAL ENCODING FORM

FLAGS: used for highlighting information and specific horizons

KEY HORIZONS:

K001 visible top of mineralized zone synonamous with ore zone
K002 visible bottom of mineralized zone synonamous with ore zone
H001 top of mineralized zone within hanging wall rocks
H002 bottom of mineralized zone within hanging wall rocks
F001 top of mineralized zone within footwall rocks
F002 bottom of mineralized zone within footwall rocks

*NOTE: other mineralized zones within hanging wall or footwall rocks are designated as H003, H004, F003, F004, etc. with uneven numbers representing the top of the mineralized zone and even numbers representing the bottom.

ADDITIONAL INFORMATION:

VG visible gold
SAM sample taken
STR structural remark
MAG magnetic zone

GEOLOGICAL DATA ENTRIES

FROM - TO: defines the interval over which a particular rock type or characteristic occurs

REC%: % recovery of core

MIX %: % of a subunit or a modified unit within a primary rock unit

ROCK: indicates rock type

ROCK TYPE ABBREVIATIONS

BREC	Breccia	LAMP	Lamprophyre
CADI	Carbonate Diopside Unit	LOST	Lost Core
CASG	Casing	MFIN	Mafic Intrusive
CHER	Chert	MFSH	Mafic Schist
DIAB	Diabase Dyke	MFVL	Mafic Volcanic
FLIN	Felsic Intrusive	MSSH	Muscovite Schist
FLVL	Felsic Volcanic	PEGM	Pegmatite
FPFV	Felsic Volcanic Rock with Feldspar Crystals as dominant fragment type	PELT	Pelite (grains predominantly 1/16 mm - not visible to the naked eye)
FXPP	Feldspar Porphyry	QEFV	Felsic volcanic rock with quartz-eyes as dominant frag- ment type
GFSC	Graphite Schist	QZVN	Quartz Vein
GOUG	Gouge	SAND	Sandstone (grains 1/16 mm to 2 mm)
INAS	Intermediate Ashflow	SCHS	Schist
ININ	Intermediate Intrusive		
INVL	Intermediate Volcanic		
IRFM	Iron Formation		

ROCK TYPES CHARACTERISTIC OF MAIN ORE BODY:

BART	Barite Rock
MSSH	Muscovite Schist
SASH	Stibnite/Realgar bearing Muscovite Schist
SIRX	Siliceous Rock

ET: Entry Type: Categorizes rock types using abbreviations U,M,S

U - Main Rock Type - forms majority of a specified interval

M - modification of main rock type over specified interval (all data is identical to the description of the main rock type except where specified).

S - sub-rock type contained entirely within a main rock type (eg. a FXPP within PELT)

T: average thickness in metres of a sub-rock type or of bedding or banding in the main rock type

R-F MINERALS: indicates the main rock-forming minerals of the specified rock type

MINERAL ABBREVIATIONS

METALLIC MINERALS

As Arsenopyrite
Au Gold
Bo Bornite
Cp Chalcopyrite
Hm Hematite
Mg Magnetite
Mo Molybdenite
Or Orpiment
Pb Galena
Po Pyrrhotite
Py Pyrite
Pg Realgar
Sb Stibnite
Sp Sphalerite

NON-METALLIC MINERALS

Ac Actinolite
Ap Apatite
Ax Amphibole
Ba Barite
Bi Biotite
Cb Carbonate
Cd Chloritoid
Cl Chlorite
Di Diopside
Ep Epidote
Ft Fluorite
Fx Feldspar (composition unspecified)
Ga Garnet
Gr Graphite
Ka Kaolinite
Ky Kyanite
Ms Sericite
Mu Muscovite
Oe Ocellacherite
Pl Plagioclase
Px Pyroxene
Qz Quartz
St Staurolite
To Tourmaline
Tr Tremolite

TYPIFYING MATERIAL: material(s) (with percentage) which typify specified rock type

ABBREVIATIONS

ASH Ash
AXB Amphibole Bands
FP Feldspar Phenocrysts
LAP Lapilli-size fragments
QE Quartz Eyes

COL: shade and colour of rock

SHADE AND COLOUR ABBREVIATIONS

1 Darkest	4 Medium Dark	7 Light
2 Very Dark	5 Medium	8 Pale
3 Dark	6 Medium Light	9 Palest
A Grey	P Purple	U Umber
B Blue	R Red	W White
G Green	SP Salt and Pepper	Y Yellow
N Black	T Tan	\$ Suffix "ish"

GRN SIZE: grain size of rock described using the size scale

ABBREVIATIONS

FF - average size of fine fraction
CF - average size of coarse fraction
1/2C - 1/2 coarse fraction
MP - maximum particle size

SIZE SCALE

SYMBOL	PARTICLE DIAMETER RANGE (mm)	EQUIVALENT GRAIN SIZE	
		SEDIMENT	VOLCANOCLASTICS
0	< .004 mm	clay size	
1	.004-.016	fine silt	fine ash
2	.016-.06	medium-coarse silt	
3	.06-.25	fine sand	
4	.25-1	medium-coarse sand	coarse ash
5	1-4	grit/granule	
6	4-16	small pebble	small lapilli
7	16-64	medium-large pebble	large lapilli
8	64-250	cobbles	cobble-size blocks
9	250-1000	small-medium boulder	boulder size blocks
x	> 1000	large boulder	extra large blocks

CST MOR: clast morphology

ABBREVIATIONS

- SR - sorting; described using degree of sorting scale
- RN - roundness; described using degree of roundness scale
- SP - sphericity; described using sphericity scale
- O - open or matrix supported
- C - closed or clast supported

DEGREE OF SORTING

- | | | |
|---------------------------|----------------------------|-------------------------|
| 1 Extremely Poorly Sorted | 4 Moderately Poorly Sorted | 7 Well Sorted |
| 2 Very Poorly-Sorted | 5 Moderately Sorted | 8 Very Well Sorted |
| 3 Poorly Sorted | 6 Moderately Well Sorted | 9 Extremely Well Sorted |

DEGREE OF ROUNDNESS

- | | | |
|---------------------|----------------------|---------------------|
| 1 Extremely Angular | 4 Moderately Angular | 7 Rounded |
| 2 Very Angular | 5 Intermediate | 8 Very Rounded |
| 3 Angular | 6 Moderately Rounded | 9 Extremely Rounded |

SPHERICITY

- | | | |
|-----------------|---------------|----------------------|
| 0 Nil | 4 Fairly Low | 8 Extremely High |
| 1 Extremely Low | 5 Moderate | 9 Exceptionally High |
| 2 Very Low | 6 Fairly High | |
| | 7 Very High | |

TEXTURES:

TEXTURAL ABBREVIATIONS

BD	Bedded	BN	Banded	BR	Brecciated
CL	Cleavage	EQ	Equigranular	FL	Flow Structures
FO	Foliated	GB	Graded Bedding	LM	Laminated
MS	Massive	MY	Mylonitic	PP	Porphyritic
SC	Schistose	SS	Soft Sediment	XB	Cross Bedding

XLMP: crystal or phenocryst morphology

ABBREVIATIONS

- XL - phenocryst type (eg. FP)
- M - mode of occurrence
 - E Euhedral Crystals
 - S Subhedral Crystals
 - A Anhedral Crystals
- P - maximum particle size (use size scale)

FC: fracture count; defined as the average number of fractures in 1 m of core for specified rock type

CO: competence scale; rock competency described using a scale from 1 to 5 with 1 being the most competent and 5 being the least competent

S1DP S2DP: Description and dip angle of 2 structural features in a unit. Dip is measured from a plane perpendicular to the core axis (core normal angle).

STRUCTURAL ABBREVIATIONS

BD Bedding
BN Banding
CL Cleavage
CT Contact
DY Dyke
FO Foliation
FT Fault
GO Gouge
LM Lamination
LN Lineation
QV Quartz Vein
SC Schistosity
SP Slip
VN Vein (General)

MINERALOGY: Observed minerals described by mode of occurrence and percentage of the total rock.

MODE OF OCCURENCE ABBREVIATIONS

A Anhedral Crystals	T Tarnish or Stain
B Blebs	V Vein
C Envelopes or Coatings	W Books
D Disseminated	Y Amygdaloidal or Spherulitic
E Euhedral Crystals	Z Selvage
I Eyes, Auger	# Breccia Filling
J Interstitial	< Micro Vein
K Stockwork	\$ Sheeting
L Laminated	1 Amount Disseminated < Amount in Veins
N Nodules	2 Amount Disseminated = Amount in Veins
O Spots	3 Amount Disseminated > Amount in Veins
P Pervasive	
Q Patches	
R Rosettes	
S Subhedral Crystals	

CERTIFICATE OF QUALIFICATIONS

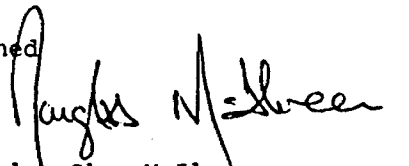
I, Douglas Glen McIlveen, of Kirkland Lake Ontario, do hereby certify that:

I have a Bachelor of Science Degree in Geology from McMaster University.

I have been employed as a geologist by Lac Minerals Ltd. Exploration Division since May 1983.

I supervised the drilling on the White River Property and logged the following drill holes: M-12-6, M-12-7, M-12-8, J-16-1, and J-16-2.

Signed

A handwritten signature in cursive script that reads "Douglas Glen McIlveen". The signature is written in dark ink and is positioned to the right of the word "Signed".

Douglas Glen McIlveen
Geologist



Toronto Office
Suite 485
146 Front Street West
Toronto, Ontario
M5J 2L7
(416) 598-2538

LAC

Lac Minerals Ltd.
Exploration Division

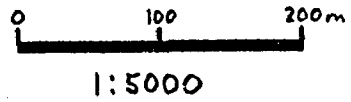
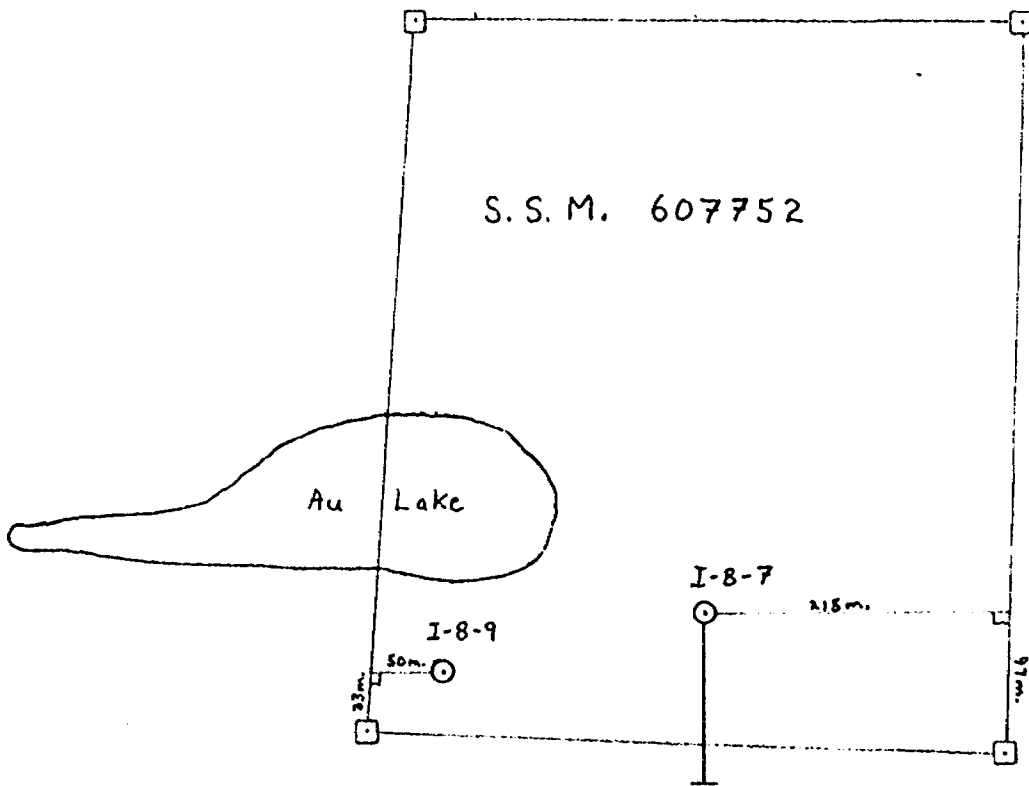
STATEMENT OF QUALIFICATION


I, Robert A. Campbell, hereby certify that:

- 1) I have the following University degrees;
 - a) B.A., Geology, University of California, Santa Barbara, 1978.
 - b) M.Sc., Geology, University of Western Ontario, Ontario, 1985.
- 2) I have practiced my profession since 1978.
- 3) I am employed by/and an authorized agent for LAC Minerals Ltd., 146 Front Street West, Suite 485, Toronto, Ontario, M5J 2L7.

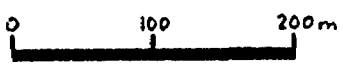
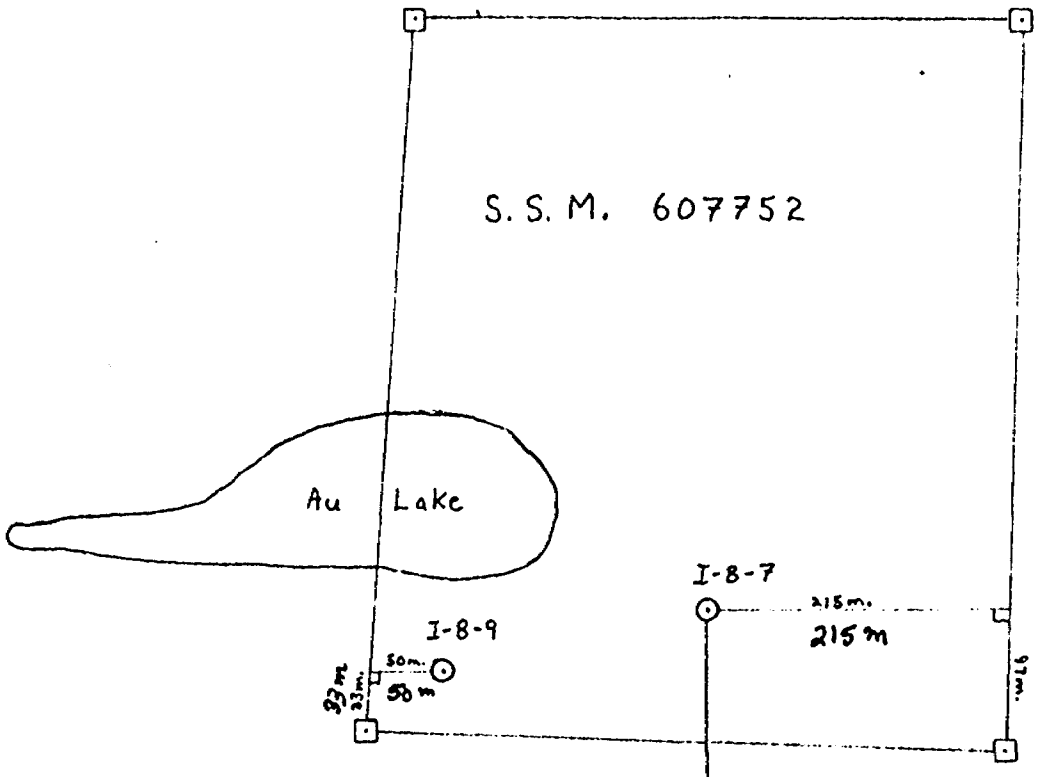
R.A. Campbell.
1986-04-28

R. Anderson Campbell




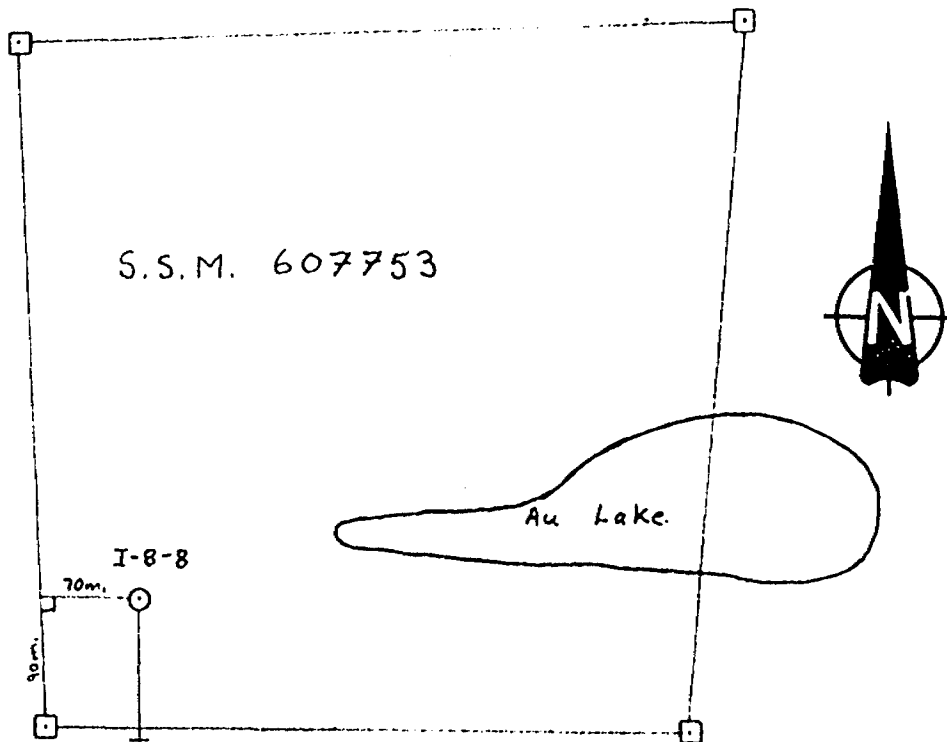
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		TITLE	CHECKED BY	DATE 1986
LOCATION MAP		SCALE	1:5000	
		FILE LOC		
		DWG NO		

14




1:5000

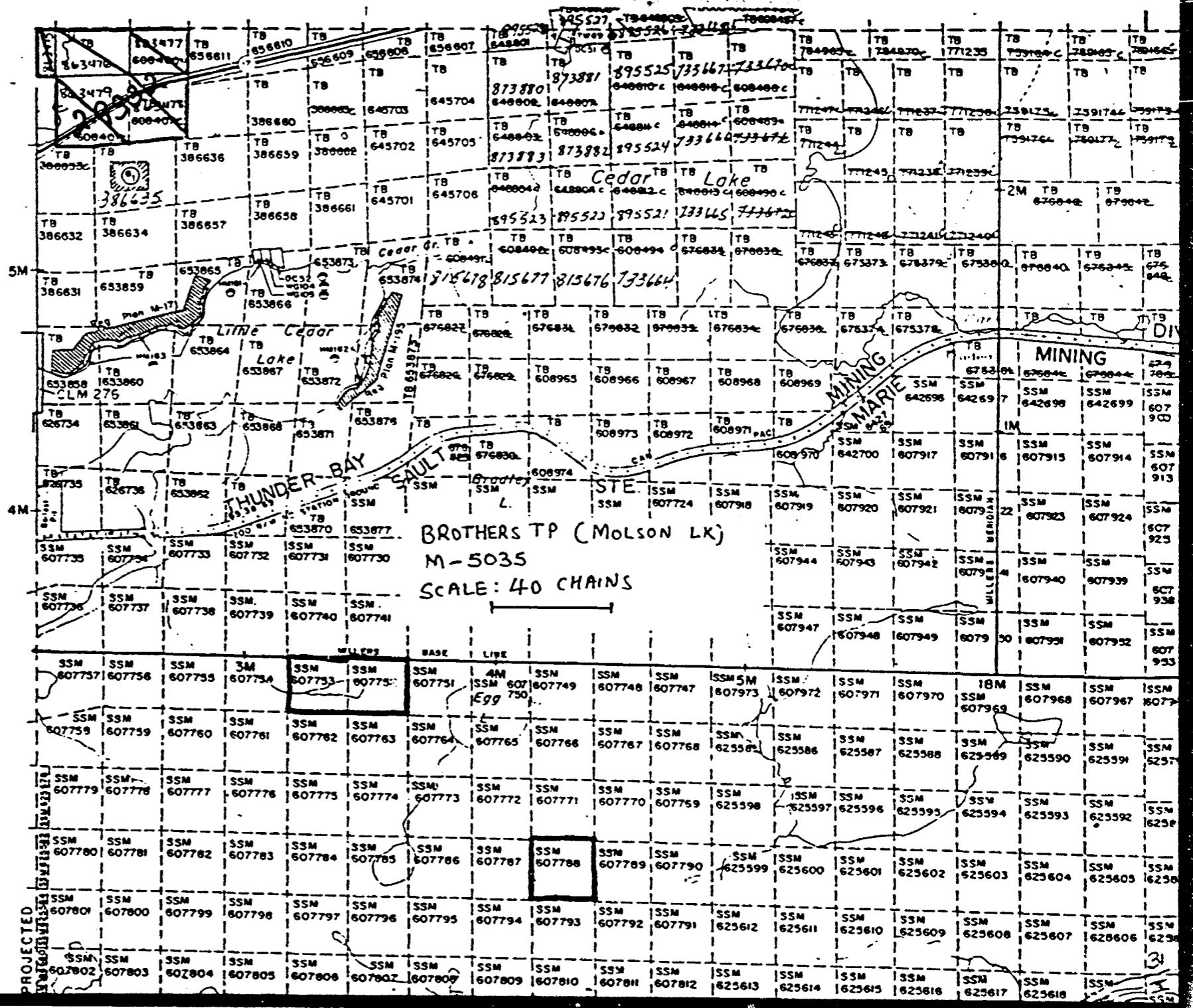
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		CHECKED BY		DATE	1986
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		FILE LOC			
		DWG. NO.			
		19			



1:5000



 LAC MINERALS LIMITED		DEPT. EXPLORATION	DRAWN BY <u>A.A.C.</u> DATE 1986
		TITLE	CHECKED BY <u>...</u> DATE 1986
LOCATION MAP		SCALE <u>1:5000</u>	
		FILE LOC	
		DWG NO.	
		23	



BOMBY TWP. G-3173

BROTHERS TP (MOLSON LK)
M-5035
SCALE: 40 CHAINS

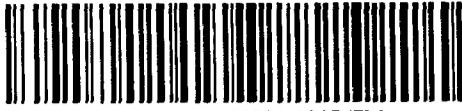
SEE
MOLSON LK

THE WHITE R. GRANTED TO
CONTOUR ELEV. 1080', File 113986

420/12NW

PROJECTED

31



42C12NW0006 42C12NW0068A1 BROTHERS

900



Ministry of Natural Resources Report of Work

#46-86

Instructions - Supply required data on a separate form for each type of work to be recorded (see table below). For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

The Mining Act

Name and Postal Address of Recorded Holder Lac Minerals Limited, 146 Front St. West Suite 485, Toronto, Ont. M5J 2L7	Prospector's Licence No. T664
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Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 4072.5	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey	SSM	607720	40	SSM	607728	40	SSM	607736	38
		607721	40		607729	40		607737	38
		607722	40		607730	40		607738	38
		607723	40		607731	40		607739	38
		607724	40		607732	40		607740	38
		607725	40		607733	40		607741	19
		607726	40		607734	40		607742	40
		607727	40		607735	40		Continued on attached list	

All the work was performed on Mining Claim(s): SSM 607752 607753 607788 542591 542589 625548 (1079) (455) (495) (1194) (292) (1056)

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below) **BROTHERS & LABERGE LTD**

Morissette
P.O. Box 789
Haileybury, Ont.
POJ 1K0

Boyles Brothers Diamond
Core BQ
Date From: 01/03/86
to: 12/04/86

Core is stored at Lac Minerals Ltd's Cedar Lake Camp
Drill logs and Location sketches Attached

Total credits from recent drilling = 4521
Total applied credits to SSM Claims = 4072.5
Total applied credits to TB Claims = 60.0
Remaining credits to be applied at a later date = 388.5

RECEIVED
MAY 23 1986
SAULT STE. MARIE MINING DIV.
MAY 12 1986 P.M.
7:18:10:11:12:1:2:8:4:5:6

Date of Report: May 5, 1986
Recorded Holder or Agent (Signature): R. Anderson Campbell

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 end/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying
**R. A. Campbell c/o Lac Minerals Ltd, 146 Front St.
Toronto, Ont M5J 2L7**

Date Certified: **May 5, 1986**
Certified by (Signature): **R. Anderson Campbell**

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	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.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		

768 (81/3)

file on SSM 607720

Prefix	number	work Days Cr	Prefix	number	work Days Cr	Prefix	number	work Days Cr
SSM	607743	40	SSM	607946	40	SSM	625647	40
	607744	38		607947	40		625648	40
	607745	38		607948	38		625649	40
	607900	40		607949	40		625650	40
	607901	40		607950	40		625651	40
	607902	40		607951	40		625652	40
	607903	40		607952	40		625653	40
	607904	40		607953	40		625654	40
	607905	40		607954	40		625655	40
	607906	40		607955	40		625656	40
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	607909	40		607958	40		607884	21
	607910	40		607959	40		625703	40
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	607916	41		620473	40		625553	20
	607917	41		620472	40		625554	20
	607918	40		620482	40		625555	20
	607919	40		620481	40		625556	40
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	607940	34.5		625641	40		642696	20
	607941	40		625642	40		642697	20
	607942	40		625643	40		642698	20
	607943	40		625644	40		642699	20
	607944	40		625645	40		642700	20
	607945	40		625646	40			

1193.5

1123

862