



32D04NE0076 46 MCVITTIE

010

DIAMOND DRILLING

TOWNSHIP: McVITTIE TWP.

REPORT NO: 46

WORK PERFORMED FOR: LAC Minerals Inc.

RECORDED HOLDER: Same as Above [xx]
: Other []

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
L 767470	LV88-10	655'	Sept/88	(1)
L 801135	LV88-11	900'	Sept/88	(1)
L 801174	LV-88-12	547'	Sept/88	(1)
	LV-88-13	607'	Sept/88	(1)
L 801134	LV-88-14	898'	Sept/88	(1)

NOTES: (1) W8908-191, date filed June/89

DRILL HOLE DATA

<u>Hole #</u>	<u>depth</u>	<u>dip</u>	<u>Azm</u>	<u>start date</u>	<u>end date</u>	<u>core size</u>
LV88-10	655ft	-45°	180°	6 Sept/88	9 Sept/88	BQ
LV88-11	907ft	-45°	360°	10 Sept/88	14 Sept/88	BQ
LV88-12	547ft	-45°	360°	15 Sept/88	18 Sept/88	BQ
LV88-13	607ft	-45°	360°	19 Sept/88	22 Sept/88	BQ
LV88-14	900ft	-45°	360°	24 Sept/88	29 Sept/88	BQ

Total Footage = 3616 ft

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 Lac Minerals Exploration - Drill Hole Summary
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Project : McVITTIE	Location
Property :	Line : L8E 13+00S
Hole No. : LV88-10	Station : 13+00S
Logged By : John Kovala	Length : 655
Date : January 1989	Units : FEET
Hole Type : DDH	Dip : -45°
Start Date :	Azimuth : 180°
End Date :	Elevation
Core Size : BQ	Collar :
Recovery : 98%	Bottom :
Target : MAGNETIC HIGH, EM16R RESISTIVITY LDW	
Assay Cert No.	

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 Hole : LV88-10 - Survey Data
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Distance	Azi	Dip	Type	Remarks

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IX	From	To	Remarks
			Hole collared on bedrock
	0.0	2.0	Casing
	2.0	14.1	<p>MASSIVE FINE GRAINED INTERMEDIATE VOLCANICS Dull grey green, fine grained massive, non-magnetic. No primary textures evident. Abundant carbonate in Matrix No sulfides. Brown material (limonite), trace specularite on broken core surfaces <1% qtz carbonate stringers. Minor sericite present lower in section with silicified carbonate altered sections Lower contact not distinct.</p>
	14.1	50.7	<p>ALTERED LAPPILLI TUFF Intensely carbonate, silicified K-spar chlorite altered. (patachy) Colour varies from light green to black, much of the section has a mottled texture of light green rock containing patches (spots) of green chlorite and qtz carbonate and K-spar stringers and masses that are most often quite irregular. Minor sericite present. No sulfides. 5 - 8% qtz K-spar carbonate masses and stringers at all angles to Core Axis Possible lappilli size fragments, light green in colour set in a dark green to black matrix present between 39' and 50.7'.</p>
	14.1	28.2	Intensely qtz carbonate K-spar altered. K-spar carbonate masses and stringers.
	28.2	39.4	Mixed dark green-black sections containing possible light green to black lappilli fragments and intensely altered sections similar to 14.1 to 28.2.
	39.4	32.5	Dominantly dark green to black matrix material, chlorite altered containing 10-15% lappilli fragments.
	30.0	32.5	Broken Core

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Drill Hole : LV88-10

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Geological and Assay Data

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IX From To Remarks S N

38.0 to 39.0 Alternating light grey and green patches elongate at 45° to Core Axis.

50.7 66.6 MASSIVE FINE GRAINED INTERMEDIATE (?) FLOW

Massive, fine grained, non-magnetic, dull grey green. Similar to 2' to 14.1'. No Primary textures evident. Abundant carbonate in matrix. Cut by 4 to 7% qtz carbonate ± K-spar veins .5 to 2cm wide. Veins at dominantly 30° to Core Axis. Often vuggy. Trace chalcopyrite.

Lower contact not distinct @ 35° to Core Axis

66.6 161.0 ALTERED SHEARED LAPPILLI TUFF

Colour varies from light green with black spots and irregular stringers to dark green black and to sheared bands medium to light green in colour.

66.6 to 122.0 Appears similar to 14.1 to 56.7 .
Fragments present. Appear elongate at 43° to Core Axis

122.0 to 148.0 The section is moderately sheared at 50° to 60° to Core Axis. Elongate dark patches 0.5 to 1.5cm x 1.2 to 0.5cm are present in a light green to white matrix of qtz carbonate and chlorite (+ epidote?). 2 to 4% < 1mm sericite occurs throughout.

148.0 to 159.0 Intensely altered to light green but foliation not well developed.

159.0 to 161.0 Fault Zone
Fault gouge from 159.5 to 160.3.
Angle of fault not distinguishable.
Minor limonite on fracture surfaces.

Few carbonate qtz veins > 0.5cm present over entire section. Qtz carbonate occurs dominantly as tortuous masses elongate parallel to foliation @ 50° to 60° sometimes 90° to Core Axis.

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Geological and Assay Data

Drill Hole : LV88-10

IX	From	To	Remarks
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No sulfides present, non-magnetic.

161.0 164.8 LAPILLI TUFF

Grey green, 5 to 10% light and dark green lapilli fragments in a grey green matrix, non-magnetic.

Trace pyrite.

2 - 3% qtz carbonate stringers.

Carbonate is abundant in matrix.

Trace pyrite.

Lacks intense alteration to light green and no sericite is evident.

Lower contact @ 80° to Core Axis.

164.8 655.0 CRYSTAL TUFF

Massive section consisting of 2 to 40% plagioclase crystals 1 to 4mm long in a fine grained dark green matrix. 1 - 3% < 1mm specularite crystals and 1 to 3% < 1mm magnetite crystals occur throughout the matrix.

Moderately to strongly magnetic.

Carbonate throughout matrix.

0.5 to 3% qtz carbonate ± K-spar stringers.

K-spar alteration from 205.0 to 210.0 causes pink colouration (weak to moderate) of the matrix, veins and feldspars. Above section is silicious and carbonate rich and Host a greater amount of quartz carbonate K-spar veins (ie-2 to 5%) and occasional sericite.

Feldspars 20 to 40% occur as patches separated by sections of 2 to 10% feldspars. Most patches appear elongate, contacts vary between patches patches from sharp to gradational.

Contact ie at 560 - 47°

538 - 36°

593 - 47°

542 - 39°

Trace chalco with quartz carbonate stringers.

Trace disseminated pyrite.

190.0 - 200.0 Six 2 to 20cm qtz carbonate veins often containing

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Drill Hole : LV88-10

Geological and Assay Data

From	To	Remarks
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chlorite @ 50 to 60' to Core Axis.

295.8 to 296.7 Sheared dark green to black fine grained rock. Minor pyrite, 30% quartz carbonate and sericite, sheared at 20' to Core Axis.

295.0 to 410.0 K-spar, qtz carbonate altered as previously described.

##Metalic Minerals: Magnetite and specularite are present and abundant throughout. Specularite is common on fracture surfaces..

442.0 to 447 Minor vuggs present in core.

@ 639.5 Trace chalco in quartz carbonate stringers.

655.0 655.0 END OF HOLE

#NOTE: Hole drilled through corresponding Magnetic and EM16R Resistivity anomaly. Magnetic anomaly caused by high magnetite content of core. Low resistivity values are probably due to conductive overburden overlying area of drill target and or possible fault @ 159 to 161'.

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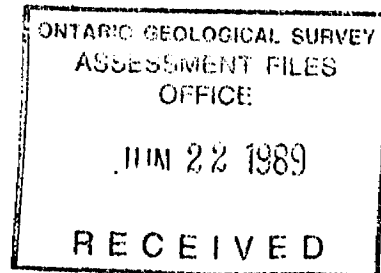
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Lac Minerals Exploration - Drill Hole Summary

Project : McVITTIE	Location
Property :	Line : 11+755, 36E GRID B
Hole No. : LV88-11	Station :
Logged By : DAVE ADAMSON	Length : 900'
Date : September 15th, 1988	Units : feet
Hole Type : DDH	Dip : 45°
Start Date : September 10th, 1988	Azimuth : 360°
End Date : September 13th, 1988	Elevation
Core Size : BQ	Collar :
Recovery :	Bottom :
Target : IP Anomaly and EM Anomaly	
Assay Cert No	

Hole : LV88-11 - Survey Data

Distance	Azi	Dip	Type	Remarks
307.0	45°		ACID	
607.0	48°			
907.0	45°			



D. Adamson
(D. ADAMSON)

IX	From	To	Remarks
	0.0	29.4	OVERBURDEN
			TEMISKAMING SEDIMENTS
29.4	44.0		QUARTZITE, medium grey, -minor (<2') intercalated black, soft mudstone @ 43.8 - 44.0' Mineralization: 36.8 - 37.6; 3 - 5% fine grained pyrite along 'bedding' accompanied by 1 - 2% yellow phyllosilicate alteration cba's average 60°
44.0	44.6		GREYWACKE, light grey, fine grained with occ. mudstone clasts. Clasts identical to mudstone bed @ 43.8 - 44.0'
44.6	87.0		GREYWACKE, altered, light grey cut by numerous quartz + carbonate stringers. Stringers aligned @ 30 - 50° to core axis Some of the smaller veins (<1mm) accompanied by light to medium green chlorite Veining accompanied by pyrite in places (see below)
	80.4 - 80.5		mudstone interbed much of the section contains carbonate in the groundmass and reacts weakly with HCL cba's = 55°
			Mineralization: Pyrite @ 84.8' cba = 90° Pyrite @ 76.9' cba = 40° Pyrite @ 75.45' cba = 20°
	45.6 - 45.7		broken core (fault)
87.0	103.0		GREYWACKE, moderate to heavy shearing, light grey. Graywacke forms fragments separated by black carbonaceous matrix (3- 40%). Some fragments are rounded, and this unit may be badly sheared conglomerate. Thus, more likely sheared greywacke/mudstone unit. Matrix is soft but not graphitic, probably chlorite-rich. Light grey

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Geological and Assay Data

Drill Hole : LV88-11

IX	From	To	Remarks
			fragments have been carbonatized. Foliation/core axis angles 45 - 65° 97.2 - 97.3 Quartz-carbonate-chlorite vein @ 60° to core axis 101.2 - 102.2 Quartz-carbonate-chlorite vein Mineralization: mm-wide pyrite veinlets with well defined crystals @ 94.0' 94.9'
103.0	107.8		HETEROLITHIC CONGLOMERATE, gradational upper boundary. Pebbles vary in size from a few mm to 10cm and average 40% of the section. Matrix is sheared medium grey greywacke. Pebble types: (in approximate order of abundance) light grey siliceous milky white siliceous black mudstone yellow clay-rich green fuchsitic (minor)
107.8	134.4		GREYWACKE, medium grey, altered 120.3 - 120.5 contorted quartz vein 130.9 Quartz-carbonate-chlorite vein 10° to core axis
134.4	137.4		CONGLOMERATE, with 60 - 70% subrounded clasts upto 10cm in size. Matrix is coarse grained greywacke containing quartz-feldspar-mafics and yellow phyllosilicate alteration Pebble composition as in above conglomerate description.
137.4	158.4		GREYWACKE, coarse grained, (1 - 10mm) with 0 - 5% 2.5cm pebbles. cba's 45° 144.5 Quartz-carbonate-chlorite veinlet cba = 30° 146.4 - 146.5 Quartz-carbonate vein 148.3 - 148.4 Quartz-carbonate vein cba = 35° 149.1 - 149.2 Carbonate-chlorite + mudstone band 151.1 - 157.4 Extensive quartz-chlorite-carbonate veining with carbonaceous material

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Geological and Assay Data

Drill Hole : LV88-11

IX	From	To	Remarks
	158.4	192.5	CONGLOMERATE, well preserved (little altered) % clasts = 30 - 80 Pebble types: light grey porphyritic rhyolite yellowish sediments quartz pebbles dark grey mudstone milky white volcanic/granitic green chloritic (list is in order of abundance) Matrix is coarse grained greywacke
	192.5	192.6	MUDSTONE, band cba 70°
	192.6	192.7	CONGLOMERATE,
	192.7	193.8	GREYWACKE, coarse grained
	193.8	195.2	CONGLOMERATE
	195.2	201.8	GREYWACKE, coarse grained with mudstone clasts. % clasts increases down hole. Way up therefore is to SOUTH.
	201.8	202.8	MUDSTONE, dark grey to black fine grained.
	202.8	204.0	MUDSTONE, sheared. Disrupted bedding + quartz veining. cba's 10 - 40°
	204.0	204.7	GREYWACKE with mudstone clasts
	204.7	207.9	CONGLOMERATE, 'Bedding' of pebbles = 70° - 80° to core axis
	207.9	208.0	CHLORITIC, (green) shearing
	208.0	341.2	GREYWACKE, massive, medium grained graded beds face SOUTH @ 243 - 247'

DATA

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Geological and Assay Data

Drill Hole : LV88-11

IX	From	To	Remarks
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@ 240 - 242, sub-angular, quartz-rich clasts upto 10cm in size.

Mudstone clasts @ 259.1 - 259.2
259.8 - 260.5
267 - 267.8
269.9 - 270.0
275.0 - 275.8
284.3 - 286.2
297.8 - 297.9
300.85 - 301.0
304.8 - 304.9

Numerous mudstone interbands between 311' and 327'. Load casts indicate way up to SOUTH.

@ 347' load casts indicates way up to NORTH.

veining @ 276.1 - 276.2 (carbonate-quartz)
300.8 - 301 (quartz + carbonate)
307.75 - 308 (quartz - carbonate)
307 - 310 (carbonate stringers @ 70° to core axis)

Fault @ 286.2 - 286.5 (broken core)

Mineralization:

268.3 - 268.5, 15 - 20% pyrite along bedding (cba = 45°)

cba's of greywacke 65 - 75°. Individual mudstone beds may indicate tops of bouma sequences.

341.2 347.8 INTERBEDDED GREYWACKE/MUDSTONE

347.8 381.0 CARBONATIZED GREYWACKE, with dark grey quartz stringers
Stringers 60 - 90° to core axis

372 - 372.1 Quartz-carbonate-chlorite vein

Mineralization:

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Geological and Assay Data

Drill Hole : LV88-11

From	To	Remarks
		367 - 367.4 Py veinlet 5° to core axis
		369 - 369.2 5% pyrite 40° to core axis
381.0	411.0	CONGLOMERATE, extremely sheared and carbonatized. Some primary pebbles visible, but most heavily altered and sheared.
		390.2 - 390.5 Quartz veining 60 - 90° to axis of core
		Mineralization: 389.8 trace pyrite
411.0	416.8	BREYWNACKE, medium grained
416.8	502.2	CONGLOMERATE, altered and sheared. Extensive carbonate alteration. Minor pyritic zones.
		Gross fining indicates way up to SOUTH Greywacke sections @ 430.4 - 431 431.4 - 431.6 431.7 - 433.4
		Mineralization: minor pyrite sections @ 421.4 - 421.5 427.75 - 427.8 429.0 - 429.7 cbs 55 - 80° 442.6 - 422.8
		Quartz-carbonate-chlorite vein with minor pyrite + chalcopryrite @ 444.2 - 445.0. Pyrite + chalcopryrite = 0.5% cbs 20°.
		Pyrite @ 445 - 445.7
		Pyrite + trace chalcopryrite @ 446.1 - 446.3
447	- 448	Extensive quartz-carbonate veining and alteration. Primary conglomerate texture almost destroyed.
469	- 502.2	Highest grade mineralization section. Core is heavily

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Geological and Assay Data

Drill Hole : LV88-11

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X From To Remarks S N

altered, dark grey to black (carbonaceous), primary
conglomerate texture still visible.

469 - 475.3 Finely disseminated pyrite in sheared conglomerate matrix.
cba 55°

475.3 - Chalcopyrite-bearing Q-cab vein

477 - 487.5 Unmineralized interbedded conglomerate (80%) and
greYWacke.

487.5 - 505.3 Disseminated pyrite and 'blebby' chalcopyrite
492 - 493.4 3 - 5% chalcopyrite 1 - 2% pyrite
493 - 497.5 1 - 2% chalcopyrite 0 - 1% pyrite
rest of intersection Cp 0 - 1%

502.2 732.0 ALTERED SECTION

Extensively carbonatized rock with carbonate + quartz net veining. Veins
traverse light greenish grey massive rock, which generally has no primary
textures. Veins are dark grey, carbonaceous and weakly mineralized by
pyrite. (0 - 1%) 'cba's of veins 45 - 65°

Original rock type is difficult to discern. May be:

a) altered and sheared massive greYWacke

b) carbonatized lava unit.

In places, the section has a 'mottled' texture similar to that in less altered
mafic lavas deeper down the hole. (ie; Kinojevis Group volcanics). This
interpretation would place the upper mineralization described above at the
Temiskaming-Kinojevis (487 - 505.3')

MINERALIZATION:

Section contains scattered pyrite cubes, some of which are partly oxidized,
may be another mineral intergrown with pyrite causing oxidation. Pyrite
concentrated around cross-cutting veinlets. Rarely exceeds >1% of section.
Very minor amounts of chalcopyrite sporadically developed.

QCB

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Geological and Assay Data

Drill Hole : LV88-11

IX	From	To	Remarks
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@ 539 - 541.7 Fault zone, abundant carbonate, limonite, goethite

Fault also at 599.3 - 601.7
640.2 - 640.7

732.0 907.0 Gradational contact into green ALTERED MAFIC VOLCANICS of the Keewatin series.

amygdaloidal sections @ 733.2 - 734.2
788.8 - 790.3

quartz-carbonate veins @ 739.9 - 740.1
750.8 - 751.1

814.9 - 815

839.5 - 836

flow tops @ 801.7 802

803.6 - 804.9

809 - 811.6

876 (way up SOUTH)

cha's 45°

vein/core axis angles 10 - 55°

Mineralization:

835.1 Py veins

839.5 - 836 Py veins

763.2 - 764.8 Py veinlet

739.9 - 740.1 trace pyrite

907.0 EOH

x

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Lac Minerals Exploration - Drill Hole Summary

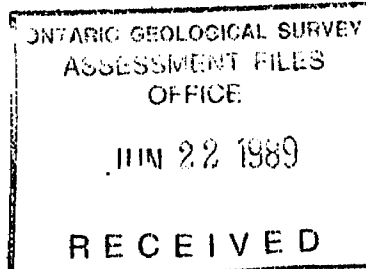
Project	: McVITTIE GRID B	Location	
Property	:	Line	: 36E 20+258
Hole No.	: LV88-12	Station	:
Logged By	: DAVE ADAMSON	Length	: 547'
Date	: October 18th, 1988	Units	:
Hole Type	: DDH	Dip	: 45°
Start Date	: September 14th, 1988	Azimuth	: 360°
End Date	: September 16th, 1988		
Core Size	: BQ	Elevation	
Recovery	: 98%	Collar	:
		Bottom	:

Target : TESTING IP AND EM ANOMALY

Assay Cert No

Hole : LV88-12 - Survey Data

Distance	Azi	Dip	Type	Remarks
300.0		45°	ACID	
547.0		45°		



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(D. ADAMSON)

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Geological and Assay Data

Drill Hole : LV88-12

IX	From	To	Remarks
	0.0	15.0	OVERBURDEN
			TEMISKAMING GROUP
	15.0	70.9	GREYWACKE, medium grained massive with conglomerate bands 43.8 - 45.4 - conglomerate, contact is at 60° to core axis
	70.9	75.2	CONGLOMERATE contact with above unit @ 45° to core axis - pebble types: - greenstone - quartz (occ. py-bearing) - felsic porphyritic volcanic
	75.2	98.9	GREYWACKE with occasional MUDSTONE CLASTS and < 1% pebbles
	98.9	190.1	CONGLOMERATE - pebble types: - medium grey felsic volcanics - white quartz - light green felsic volcanics - light grey felsic volcanic/quartz - black carbonaceous mudstone - dark grey mafic volcanic - granite Pebbles 50 - 80% - framework supported lower contact @ 50° to core axis
	190.1	193.8	GREYWACKE fine grained with chlorite-rich beds cbs 20°
	198.3	196.7	CONGLOMERATE (as above description)
	196.7	197.8	GREYWACKE fine grained, way up to SOUTH (up hole)
	197.8	325.3	CONGLOMERATE massive with 5% coarse greywacke - 264.6 - 265.1 mudstone

Dick

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Geological and Assay Data

Drill Hole : LV88-12

IX	From	To	Remarks
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conglomerate as above + 1% fuchsite pebbles
cba's 55'

325.3 382.6 CARBONACEOUS SCHIST (prob cause of anomaly). Abundant quartz-carbonate-chlorite veins. Very disrupted bedding, no consistent direction. No visible mineralization.

382.6 547.0 DACITIC TUFF, grey-green containing:
quartz and plag phenocrysts and 1% fuchsitic lithic fragments

sections silicified and light grey

whole section cut by minor quartz-carbonate stringers.

467 - 449.7 carbonaceous shear cba 65'
457 - 470 abundant 1cm quartz veins @ 60° to axis
470 - 470.2 low angle quartz vein
483.5 - 487.3 partially broken core, limonitic stain
489.3 - 490.6 broken, lost core
497 - 543 tr - 1% pyrite

547 EDH

X

EDH

Lac Minerals Exploration - Drill Hole Summary

Project : McVITTIE	Location
Property :	Line : 26+258, 36E GRID B
Hole No. : LV88-13	Station :
Logged By : DAVE ADAMSON	Length : 607'
Date : August 27th, 1988	Units :
Hole Type : DDH	Dip : -45°
Start Date : September 16th, 1988	Azimuth : 360°
End Date : September 19th, 1988	Elevation
Core Size : BQ	Collar :
Recovery : 98%	Bottom :
Target : IP Anomaly	
Assay Cert No	

Hole : LV88-13 - Survey Data

Distance	Azi	Dip	Type	Remarks
307.0		45°	ACID	
607.0		50°		

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE
JUN 22 1989
RECEIVED

D. Adamson
(D. ADAMSON)

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Biological and Assay Data

Drill Hole : LV88-13

IX	From	To	Remarks
	0	71.9	OVERBURDEN
			TEMISKAMING GROUP
	71.9	87.3	MAFIC TUFFS - equivalent to porphyritic trachytes of D6S - Feldspar-phyr. Feldspar replaced by carbonate - fine grained dark green groundmass - black lithic fragments - overall composition probably andesite or basaltic andesite - fragments flattened in plane of foliation - unit weakly stratified - probably as ash flow deposit - cba's average 45°
	87.3	89.5	TUFF-BRECCIA - 75% medium to light grey lithic fragments in a matrix similar to that of above unit - fragments sub-angular - flattened in plane of foliation - fragments 2cm - 5cm across - cba's average 45°
	89.5	97.5	MAFIC TUFFS - as in above description, crystal and lithic fragments
	97.5	109.3	CARBONATIZED MAFIC TUFFS - texturally similar to mafic tuffs, but carbonate alteration gives core a medium grey colour - gradational upper and lower contacts
	109.3	115.9	Broken Core - 50% recovery - silicified tuff-breccia unit
	115.9	126.4	BLEACHED MAFIC TUFFS - crystal (feldspar) and lithic (dark mafics) 114.8' - 5cm fragment of black porphyritic rhyolite - abundant carbonate veining at 50 - 75° - minor pyrite @ 123.5

Duck

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Geological and Assay Data

Drill Hole : LV88-13

IX	From	To	Remarks
		121.1	
126.4	133.2		HETEROLITHIC AGGLOMERATE - subangular fragments 2 - >10cm, total 50% - matrix supported - composition of fragments: light grey porphyritic volcanic - hornblende phyric dark green fine grained volcanic dark grey felsic volcanic - bleaching adjacent to carbonate veins @ 127.6 - 128.4 @ 45° 135.1 - 135.8 @ 35°
133.2	147.4		DARK GREEN AGGLOMERATE - 10 - 20% mafic fragments - felsic fragments absent - matrix supported
147.4	163.5		HETEROLITHIC AGGLOMERATE - as previously described - 10 - 15% carbonate stringers and veins @ 25 - 70' to core axis - 0.5cm pyrite cubes @ 161.4' - 1cm oxide stain in sheared section @ 162 - 162.5
163.5	213.3		INTERMEDIATE CRYSTAL LITHIC TUFFS - altered and veined sections - lighter colour (light grey) than MAFIC TUFFS at top of hole, probably due to pervasive alteration - quartz veins @ 164.2 - 164.6 165.8 @ 60' to core axis 166.3 - 166.5 @ 50' to core axis 167.8 @ 45' to core axis 168 @ 35° 168.6 168.8 179.6 - 180.3

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Lac Minerals Ltd	Drill Hole : LV88-13	
Geological and Assay Data		

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X	From	To	Remarks	
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- quartz veins white, except @ 179.6 where it is white and tan
- Altered section @ 190.3 - 191.4, carbonate + quartz stringers
- bomb of light grey felsic volcanic @ 192.3

212.1 - 213.2 quartz vein @ 45°, abo @ 214
214.4 - 214.5

213.3	216 FINE GRAINED DACITE TUFF
	- <5% dark grey siliceous fragments
	- medium grey colour
216	250.7 MAFIC LITHIC TUFF
	- contains dark green to black fragments (20 - 30%) up to 1cm in size
	222' Quartz-carbonate vein @ 5'
	242' Pink quartz + carbonate vein @ 30'
250.7	252.8 DARK FRAGMENTAL AGGLOMERATE
252.8	254.5 PINK FRAGMENTAL AGGLOMERATE
	- pink granitic to trachytic fragments
	- fragments 70%, matrix supported
254.5	259 ALTERED SECTION
	- light green to pinkish grey
	- pink quartz-carbonate veins @ 255.3 - 256.9
	256' cherty part of vein
	257.3' black cherty section
	258.5' white quartz + black chert @ 3' to core axis
259	260 K-SPAR MEGACRYSTIC TUFF
	- 1cm Kspar megacrysts (after leucite?) - 2 - 3%
	- whitish lithic fragments 5%
	- cherty (black) fragments 1%
	- fine grained pinkish groundmass - cba's 80'
260	264.1 PINK FRAGMENTAL AGGLOMERATE

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Geological and Assay Data

Drill Hole : LV88-13

IX	From	To	Remarks
			- 80% trachytic (?) pink blocks (up to 10cm across) - fragment supported - light to medium green matrix
264.1		307	DACITE TUFF - grey green - 10 - 20% dark green lithic 1 - 5mm across - abundant white and pink quartz stringers @ 45° (10%) 65.5 - 266.1 folded white and pink quartz veins - also at 269.2 - 269.8 271.2 271.8 - 278 278 - 280.2 @ 3° to core axis - minor mm-size pyrite cubes @ 294.8 299.4 304.7 (vein @ 45° to core axis)
307		310.1	TUFF-BRECCIA - veined and altered - light to medium green - 5% 2cm angular fragments, dark green, aphyric - veins @ 60 - 70° 307.6 - 308 Milky white quartz vein @ 65° + trace sericite and fuchsitic chlorite - scattered pyrite cubes in vein @ 307.6
310.1		315	MASSIVE GREYWACKE - medium grained - irregular contact with agglomerate/tuff above @ 20° to core axis
315		352	DACITE TUFFS - light grey-green - altered and veined sections - generally massive and structureless

DLA

Lac Minerals Ltd
Geological and Assay Data

Drill Hole : LV88-13

IX	From	To	Remarks
			- 5% mafic fragments aligned @ 60° to core axis
			- 5% quartz veins
			- larger veins at: 313.7 - 315
			325
			334.4
			347.4
			348.2
			352
			- minor pyrite @ 325.7 - 3mm cubes (<1%)
			329.5
			342.8
			352
352	354		TUFF BRECCIA
			- extensive quartz veining
			- 2 generations of quartz, one at 8 - 10°, the other at 60 - 70° to core axis
354	357.7		DACITE TUFF
357.7	360.3		INTERMEDIATE TUFF
			- interbeds of epiclastic conglomerate, abundant rounded felsic fragments
360.3	364		COARSE EPICLASTICS
			- medium to light grey clastic groundmass
			- 1 - 5% felsic rounded clasts
364	367		ALTERED INTERMEDIATE TUFFS
			- 5% chloritized mafic fragments
			- light green/grey
367	377.5		DACITE TUFF
			- light grey-green
			- 5% green, chloritized mafic fragments
377.5	382		SILICIFIED TUFFS

DCA

Lac Minerals Ltd
Geological and Assay Data

Drill Hole : LV88-13

IX	From	To	Remarks
			- pink/grey - fine grained - 20% quartz stringers surrounded by pink carbonate haloes - stringers @ 65° to core axis
382	387	INTERMEDIATE TUFFS	- medium grey - 1% epiclastic interbeds
387	391.6	CHLORITE SCHIST	- 60% quartz veins @ 10 - 20° to core axis - cba's approximately 20°
391.6	395.7	FELDSPAR CRYSTAL TUFF	- 30 - 40% 5mm feldspar crystals - light grey siliceous groundmass
395.7	496	FINE GRAINED TUFFS/SEDIMENTS	- dark grey to black - pervasive carbonate veins parallel to 'bedding' - scattered 'pods' of carbonate, probably replaced clasts
	401 - 401.7	Carbonaceous Mudstone	
	409 - 410	Carbonate 'clasts'	also at 412.5 - 413.3 434.4
	417.9	Carbonate 'clasts' + quartz pebble (5cm)	
	417.7	Mudstone clasts	
		- minor quartz veining @ 397 - 398	450.4 @ 10° 464.6 @ 10° 490.1 @ 50°
	486.5 - 487.3	Mudstone	

DATA

Lac Minerals Ltd
Geological and Assay Data

Drill Hole : LV88-13

IX	From	To	Remarks
----	------	----	---------

- cba;s 50 - 65°
- contact @ 488.6 @ 25°

496 502.5 MAFIC TUFF
- fine grained, dark green
- cba's 45°

502.5 507.6 GRANITIZED TUFFS
- low 'cba's' 0 - 5°
- quartz-Kspar-chlorite alteration
- trace chalcopryite along section
- 503.6 - trace galena?

507.6 511 ALTERED CHLORITIZED GREYWACKE
- medium grained, grey/green

511 594.6 GREYWACKE
- medium grained to coarse grained, grey

511.8 - 512 Mudstone clasts
520.5 - 520.8 Fine grained light grey sediment
UCT @ 35°
531.4 - 532 Quartz veins @ 65°
also at: 533
534 - 536.1
537.6
539.5
540.1
542 - 545

542 - 548.7 Altered tuff - brecciated and cut by 10% Quartz veins

- weak (1 - 2%) pyritization of greywacke
@ 511 - 512.1
514 - 516.4
517 - 520

DUA

Lac Minerals Ltd
Geological and Assay Data

Drill Hole : LV88-13

IX	From	To	Remarks
			525.5 - 526.7
			534.6 - 534.8 (1 - 3% pyrite)
			539 - 539.5 pyrite veinlets @ 30' to core axis
			545.1 - 547 bleached core, 2 - 3% 3mm pyrite cubes
			547 - 548.7 <1% pyrite
			586.7 - 587.2
			593.2 - 594.6 1 - 2%
	594.6	598.6	QUARTZ-CHLORITE BRECCIA (FAULT?)
	598.6	607	GREYWACKE
		607	EOH

X

Deer

Lac Minerals Exploration - Drill Hole Summary

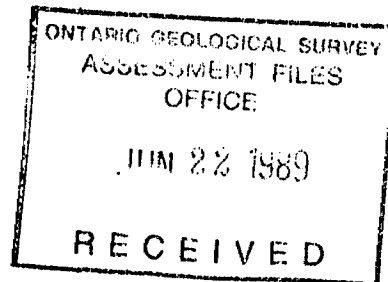
Project : McVITTIE	Location
Property :	Line :
Hole No. : LV88-14	Station :
Logged By : DAVE ADAMSON	Length : 898'
Date : October 28th, 1988	Units :
Hole Type : DDH	Dip : 45°
Start Date : September 24th, 1988	Azimuth : 360°
End Date : September 28th, 1988	Elevation
Core Size : BQ	Collar :
Recovery : 99%	Bottom :

Target :

Assay Cert No

Hole : LV88-14 - Survey Data

Distance	Azi	Dip	Type	Remarks
306.0		45°	Acid	
509.0		45°		
897.0		45°		



D. Adamson
(D. ADAMSON)

IX	From	To	Remarks
	0.0	13.0	Overburden
13.0	15.1		TEMISKAMING SEDIMENTS Silicified and sheared conglomerate. Impossible to distinguish primary pebble types, all are light grey and siliceous. Matrix to sheared pebbles is olive green and chloritic. Mineralization: minor pyrite @ 14.0' cba's 78 - 80°
15.1	17.4		Quartz-chlorite schist, more altered variety unit described above. Mineralization: section is weakly pyritic cba's 70°
17.4	54.0		Laminated, interbedded fine-grained greywacke and chloritic mudstone with minor interbeds (10-20cm) of medium-grained greywacke. Proportion of greywacke is approximately 70:30. Overall colour of section medium green. medium grain-size greywacke beds @ 25.7 - 25.9 26.2 - 26.3 26.7 - 27.2 cba's 50 - 60°
54.0	57.0		medium grey, coarse-grained greywacke
57.0	58.0		massive medium-grained
58.0	72.3		Interbedded fine-grained greywacke and chloritic mudstone. Greywacke: mudstone = 85:15
72.3	77.4		coarse-grained greywacke with <5% pebbles up to 6cm across. Greenstone and felsic volc pebbles dominant aligned @ 45° to core axis. Pebbles more numerous at base of unit, gross fining is to the SOUTH.
77.4	79.7		conglomerate 60% matrix supported pebbles is a coarse-grained greywacke

Just

Lac Minerals Ltd
 Geological and Assay Data

Drill Hole : LV88-14

P
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IX	From	To	Remarks	
			matrix. Pebble types: quartz felsic volcanic sediments (yellowish) greenstone	
	79.7	81.6	coarse greywacke with <5% pebbles	
	81.6	86.2	conglomerate (as above description)	
	86.2	87.5	medium greywacke	
	87.5	88.9	conglomerate (as above description)	
	88.9	94.2	banded medium greywacke + chloritic mudstone (5%) and 1 - 3% pebbles	
	94.2	122.2	fine-grained thinly laminated to laminated mudstone with fine-grained greywacke interbeds. cba's 60° Mineralization: minor pyrite @ 108.6 109.7 - 109.9 associated with Quartz veining 2 generations of quartz; a) medium-grey b) white, later and consulting 50° to core axis.	
	122.2	123.8	coarse-grained + <5% pebbles	
	123.8	124.3	Thinly laminated mudstone (black). Upper contact is 45° to core axis way up to the SOUTH	
	124.3	125.7	Fining upwards sequence of coarse greywacke with pebbles (base) to fine greywacke + mudstone (top)	
	125.7	126.0	black carbonaceous mudstone	
	126.0	128.2	medium-grained greywacke with <5% pebble bands. Pebbles nicely felsic	

Draft

IX	From	To	Remarks
			up to 3cm across. 5% interbeds of carbonaceous mudstone. cba's 55'
128.2	129.2		Fine-grained greywacke
129.2	164.8		Matrix supported conglomerate with the following pebble types: tea-coloured felsic volcanics (porphyritic) milky white quartz grey felsic to intermediate fine-grained volcanics yellow sediments (fine-grained) in approximate order of abundance Absence of : mudstone + greenstone + clast types Total pebble % = 20 - 6%, size <1cm - 15cm matrix i) medium-grained greywacke cba's 60' from moderate flattening on pebbles Mineralization: minor py @ 121 131.6
164.8	176.4		coarse-grained greywacke. Minor pebble bands @ 170.8 - 171.3 and 176.3 - 176.4. massive with little bedding visible
176.4	177.6		Heavily contorted mudstone - dark grey and carbonaceous with lighter grey (silt?) interbeds.
177.6	182.2		Fine-grained greywacke with mudstone interbeds. Greywacke:mudstone ratio = 90:10 cba's 45 - 50'
182.2	182.4		Carbonaceous mudstone
182.4	187.0		Medium-grained greywacke with 15% mudstone interbeds cba's 55' Mineralization

Dust

Lac Minerals Ltd
Geological and Assay Data

Drill Hole : LV88-14

IX	From	To	Remarks
			183 - 186 minor pyrite along bedding plains
187.0	192.5		Laminated mudstone - siltstone contorted bedding, abundant interfolial folds approx cba's in less folded sections = 50°
192.5	193.4		medium-grained greywacke with mudstone clasts and interbeds
193.4	194.0		conglomerate
194.0	194.6		fining upwards (to SOUTH) medium greywacke (base) to laminated mudstone (top) cba's 35°
194.6	195.3		coarse-grained greywacke
195.3	195.7		conglomerate
195.7	196.7		coarse-grained greywacke
196.7	237.0		Conglomerate with approximately 2% coarse-grained greywacke beds @ 219.3 - 219.8 223.8 - 224.6 234.7 - 235.1 236.2 - 236.8 moderate to strong flattening on pebbles cba's @ 202' - 50° 217' - 55° 223.8' - 50° generally framework supported 70% pebbles. Pebble types as described above (@129.2') with addition of 1% black mudstone clasts
237.0	258.8		poorly bedded coarse-grained greywacke
258.8	261.4		Mudstone with abundant white quartz veins and minor fine-grained greywacke

DWA

Lac Minerals Ltd
Geological and Assay Data

Drill Hole : LV88-14

IX	From	To	Remarks
	261.4	281.2	Thinly bedded medium-grained greywacke with <5% mudstone interbeds cba's 58°
	281.2	283.2	Fine-grained greywacke with mudstone interbeds (10-20%) cba's 65°
	283.2	286.5	Graded greywack bed. Way up to SOUTH
	286.5	292.0	Fine-grained greywacke with mudstone @ 286.7, 288-289 mudstone clasts @ 291.8 - 292, 290.4 cba's 50 -55°
	292.0	292.3	carbonaceous mudstone
	292.3	293.3	Altered light grey greywacke + 5% mudstone beds. Silicificate + carboante alteration widespread
	293.2	293.4	black carbonaceous mudstone
	293.4	297.0	Fine-grained greywacke with 15% .5cm mudstone beds cba's 55°
	297.0	309.2	Dark grey fine-grained greywacke cba's 45° 297.45 - 297.65 mudstone (qtz veined) cba's 60°
	309.2	309.3	black mudstone cba 60°
	309.3	310.9	Fine-grained greywacke with mudstone clasts
	310.9	311.3	Graphitic mudstone + Quartz veining cba's 50°
	311.3	319.1	Fine-grained greywacke with 1% mudstone clasts cba's 50°

DM

Lac Minerals Ltd
Geological and Assay Data

Drill Hole : LV88-14

IX	From	To	Remarks
	359.1	366.3	medium-grained greywacke with 10% mudstone laminae
	366.3	368.8	Black mudstone with 20% fine-grained greywacke bands. Abundant low angle (5° - 10°) quartz veins
	368.8	369.3	medium-grained greywacke
	369.3	369.7	black mudstone + quartz vein @ 55° to axis
	369.7	371.8	medium grey greywacke
	371.8	372.6	carbonaceous mudstone
	372.6	375.0	medium-grained greywacke
	375.0	375.4	Graphitic mudstone c/a's 70°
	377.8	382.1	Greywacke with 10% carbonaceous laminae
	382.1	382.3	Graphitic mudstone c/a's 70°
	382.3	383.4	fine-grained greywacke with mudstone clasts
	383.4	385.3	sheared conglomerate c/a's 65°. Sedimentary clasts dominant
	385.3	385.6	graphitic mudstone
	385.6	389.1	Sheared conglomerate with greywacke matrix. 80% flattened clasts. Clasts are felsic volcanics and sediments c/a's 60°
	389.1	389.7	greywacke
	389.7	390.5	sheared conglomerate

DWA

IX	From	To	Remarks
			cba's 45° Clasts total 60% in matrix supported greywacke. 1/3 of clasts are tan coloured sediments.
390.5	393.2		coarse-grained greywacke
393.2	401.0		sheared conglomerate with 5% mudstone clasts. cba's 64° Majority of clasts are felsic volcanics
401.0	401.9		coarse greywacke
401.9	407.7		Sheared conglomerate with 75% clasts made up of quartz, felsic volcanics and tan-coloured sediments. Large mudstone clasts concentrated at base of unit.
407.7	409.1		Graphitic mudstone with 5% felsic clasts.
409.1	415.7		sheared and chloritized conglomerate cba's 60° Mineralization Pyrite @ 411.4
415.7	419.8		broken core, quartz-carbonaceous fault gouge
419.8	422.7		graphitic mudstone
422.7	423.5		fault gouge
423.5	430.0		Heavily sheared and altered conglomerate with mudstone clasts (+ felsic + quartz). NB: Mudstone clasts are noted as main means of distinguishing conglomerates from the NORTH close to the Keewatin unconformity from those to the SOUTH carbonate vein @ 430' Mineralization: Pyrite @ 429'

DCAH

Lac Minerals Ltd
 Geological and Assay Data

Drill Hole : LV88-14

Pr
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From To Remarks Sa Nu

430.0 444.0 sheared, altered massive felsic volcanic cut by dark grey anastomosing quartz veinlets. Sericite-clay alterations. Original rock type is very difficult to discern. May be felsic volc. or badly altered mafic volcanics

444.0 595.0 dark to light grey felsic volcanics, generally massive with porphyritic sections @ 489 - 495
 Cut by randomly orientated dark grey/blue-grey 1 - 3mm quartz veins @ 500 - 509' 0° - 3° quartz-carbonate vein, no visible Mineralization:
 509 - 536.6 anastomosing carbonate stringers
 536.6 - 537.6 Quartz carbonate vein 10° to axis
 572.6 - 10° Quartz-carbonate vein with inclusions of country rock. No attendant mineralization also @ 585 - 593.2

Mineralization:
 trace chalcopyrite @ 536.8

595.0 614.0 Porphyritic felsic volcanic. Medium grey with 2% blue "quartz eyes" in a massive fine-grained matrix
 @ 605 5° 2cm wide Quartz vein
 @ 611 Quartz segregations + 1 - 3% dark green chlorite.
 Unit had gradational boundary with wedging unit

614.0 797.6 Heavily altered intermediate volcanics. Massive, light green to medium grey. Sections quartz-veined along with calcite and dark green chlorite.
 chlorite replaces mafics (crystals?) @ 645 - 646.4
 649 - 650.4
 659.8 - 664.7

DWA

Mac Minerals Ltd		Drill Hole : LV88-14	Pro:
Geological and Assay Data			Proj
IX	From	To	Remarks
			Sam Numl

669 - 679.4

679.4 - 698.3 - heavy quartz - carbonate ± chlorite veining. 60 - 70% of core is vein material. Veins have inclusions of country rock.

Mineralization:
very minor sporadic pyrite and rare chalcopyrite grains across section 679.4 - 698.3. No other visible mineralization.

- 623.4 - 626 broken core - fault?
- 628.3 - 628.6 Quartz vein @ 40°
- 630.6 - 631.5 quartz carbonate - chlorite vein @ 35°

Mineralization
trace chalcopyrite

- 636.2 - 637.3 Quartz - chlorite vein
- 637.3 - 640 broken core - fault?
- 640 - 640.5 quartz carbonate vein
- 731.4 - 5cm quartz vein @ 10°

silicified section @ 744 - 746

- 753.5 - 754.2 broken core
- 758 - 761 siliceous section
- 768.4 - 768.7 Quartz - carbonate - chlorite vein @ 50°

Mineralization:
minor pyrite + Cp

- 776 - 780 low angle 5° quartz vein
- 787 - 789 "bedding" (45°) parallel quartz and low angle (3°) quartz veins

Mineralization
minor pyrite

- 797 - 797.6 quartz - carbonate vein @ 25°

DWA

Lac Minerals Ltd
Geological and Assay Data

Drill Hole : LV88-14

IX	From	To	Remarks
	797.6	808.1	Altered basic volcanic, abundant epidote veinlets and patchy alteration

	808.1	898.0	altered intermediate massive volcanics with pervasive Quartz-carbonate alteration
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Quartz - carbonate veins @ 812 - 812.7 @ 55°
814.7 - 815.5 @ 20°
824.4 - 825 @ 15°
844.8 - 845.5
849 - 850.8
852.8 - 853.2 - 2 greenstone of veins, older
blue-grey @ 20°, younger
white @ 45°
860.1 - 860.7 - + wall rock inclusions
857 - 857.2 - @ 30°
864.2 - @ 10°
867 - 868 - carbonate vein
870.7 - 881 -

868 - 878.4 heavy shearing and alteration (carbonate dominated)

Mineralization

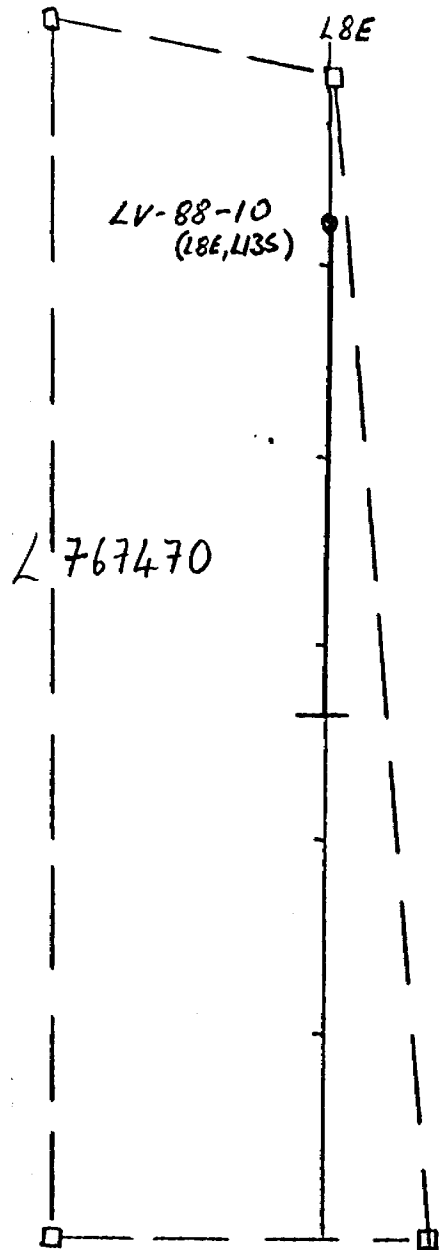
minor pyrite @ 863

846.5
849 - 850.8
860.2 - 860.5
866.2 - 865
868.3 - Pyrrhotite?
867.6 trace chalcopyrite
876.5 - 876.6 1X pyrite

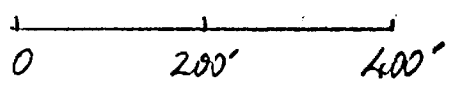
898.0 EOH

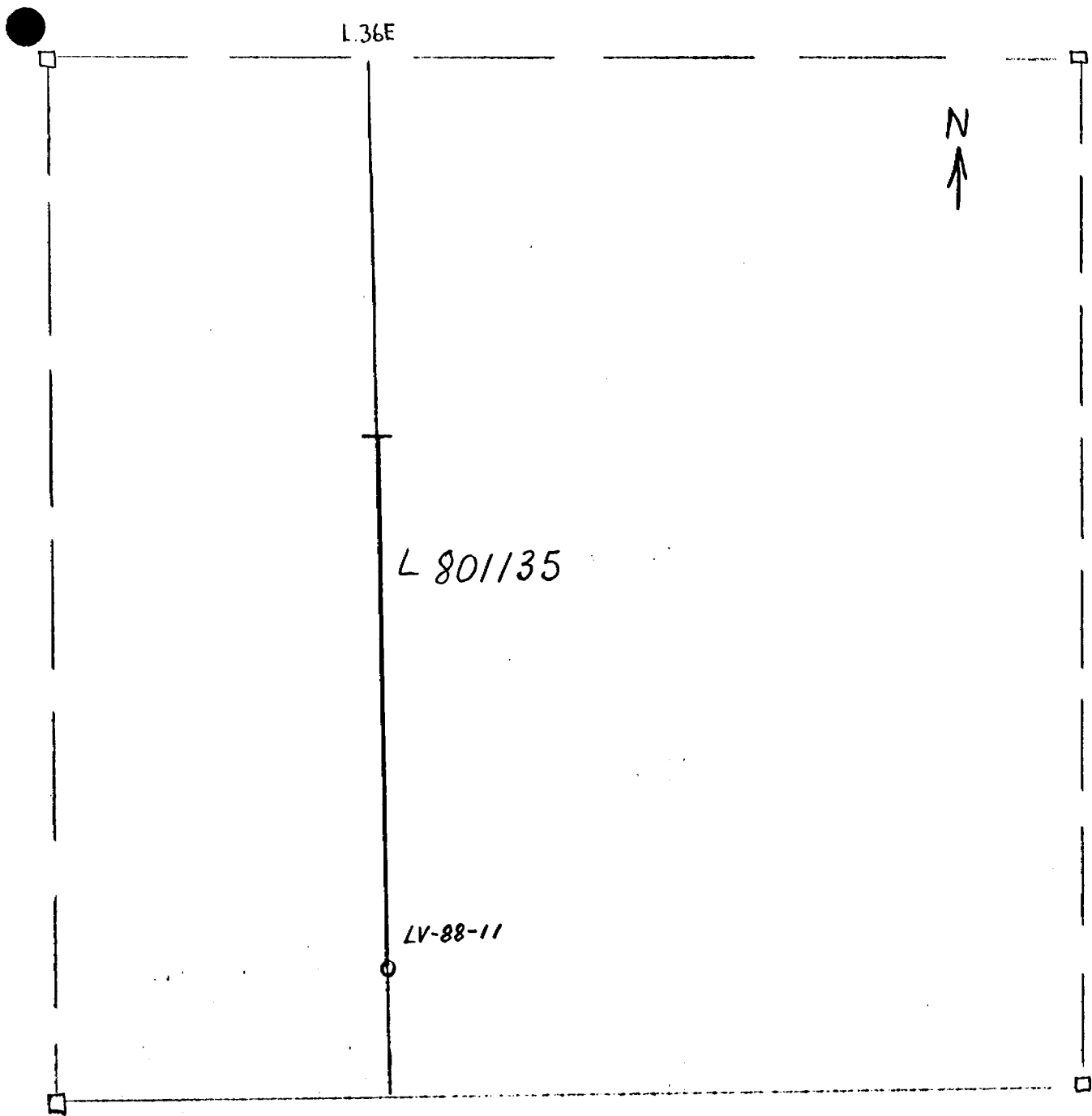
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DWA

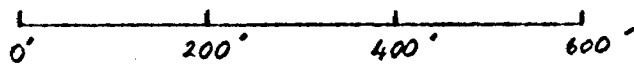


SCALE :





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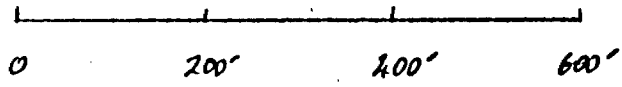


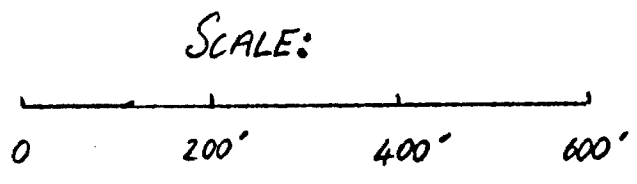
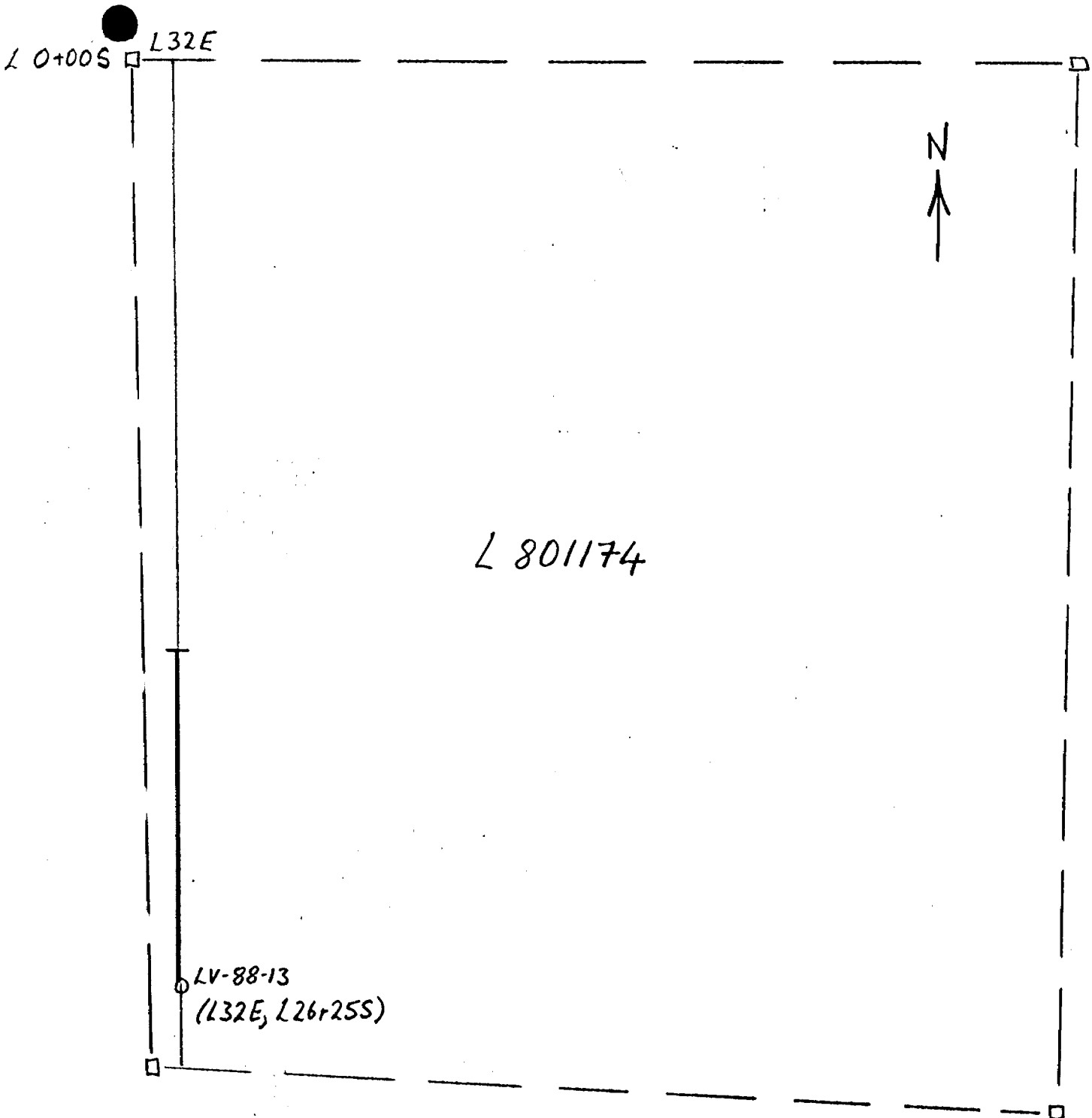
L36E

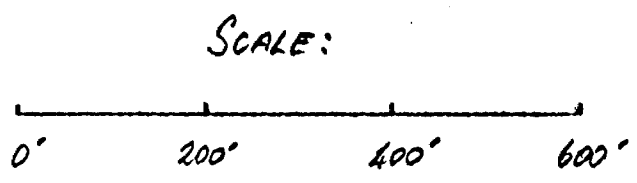
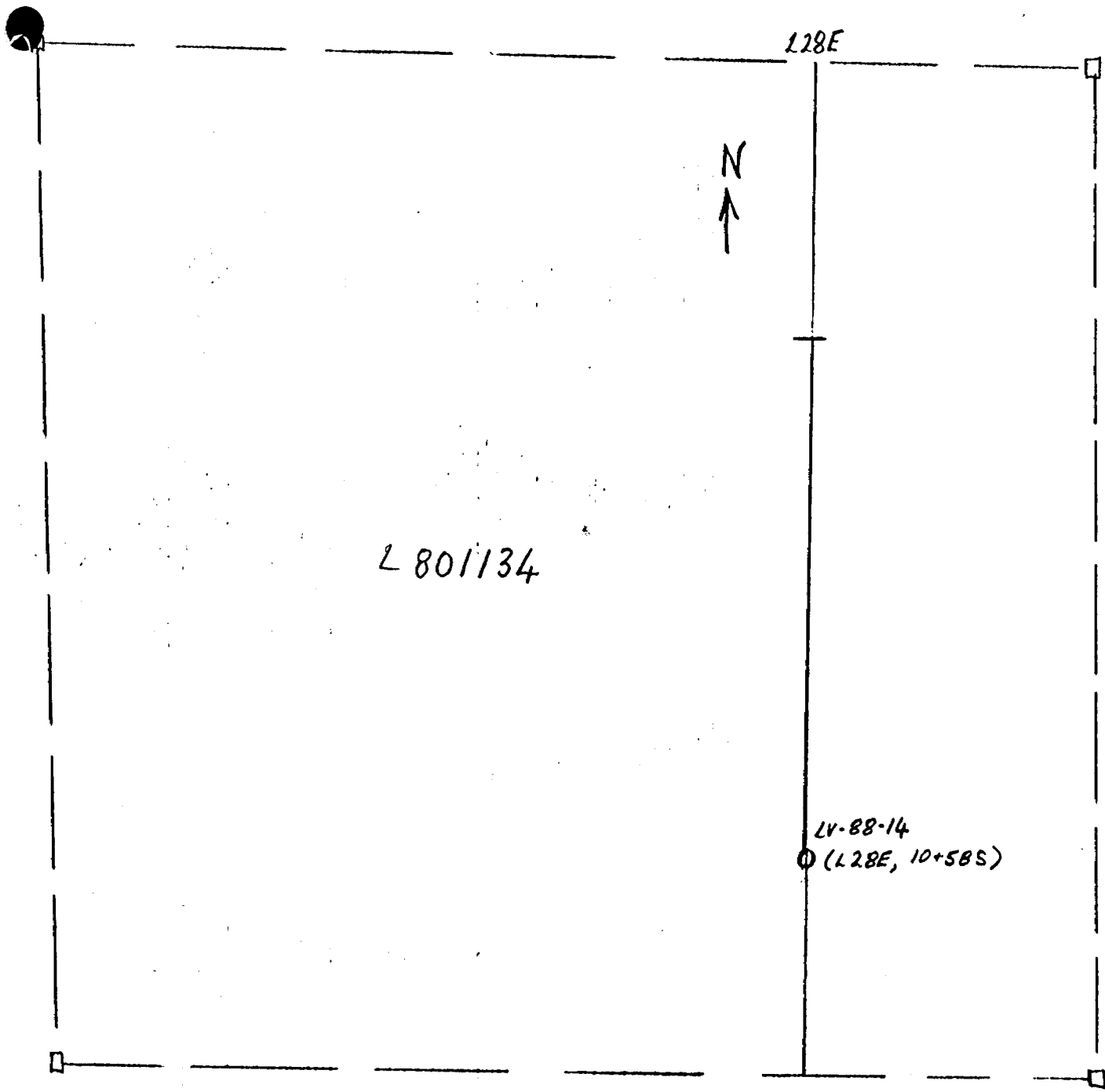


L 801174
LV-88-12
(L36E, L20+25S)

SCALE:









32D04NE0076 46 MCVITTIE

900

Name and Postal Address of Recorded Holder
LAC Minerals Ltd.

6 Al Wende Avenue, P.O. Box 670, KIRKLAND LAKE, Ontario P2N 3K1

Total Work Days Cr. claimed 3616	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only)	see	attached	sheet						
<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									

All the work was performed on Mining Claim(s): L767470, L801174, L801134, and L801135

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

Drill logs and location sketch submitted with Report of Work.

McKenzie Drilling Ltd.
P.O. Box 1054
WESTBANK, British Columbia
VOH 2A0

Drill Hole Data:
see attached sheet

Total Footage
LV88-10 + LV88-11 + LV88-12 + LV88-13 + LV88-14 = 3616 feet (3616 credits)
(see attached sheet for breakdown by hole)
Total Credits applied = 3754 3574 ✓
Credits Banked for future use = 42 ✓

RECORDED

MAY 5 1989

Receipt # _____

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
OFFICE

MAY 2 1989

LARDER LAKE
MINING DIV.

RECEIVED

MAY 5 1989

AM 1:15 PM

7 18 19 10 11 12 13 14 15

Date of Report
May 3rd, 1989

Recorded Holder or Agent (Signature)

Certification Verifying Report of Work
I hereby certify that I have 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
David Adamson, 6 Al Wende Avenue, P.O. Box 670
KIRKLAND LAKE, Ontario P2N 3K1

Date Certified
May 3rd, 1989

Certified by (Signature)

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.	
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	Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.		Nil

DIAMOND DRILLING -Distribution of Credits

Total days claimed - 3616

Applied to:

100 days

L 799522 \	L 799523 \
L 799524 \	L 801128 \
L 801129 \	L 801130 \
L 801131 \	L 801132 \
L 801144 \	L 801145 \
L 801146 \	L 801147 \
L 801148 \	L 801149 \
L 801150 \	L 801151 \
L 801153 \	L 801166 \
L 801167 \	L 801174 \
L 801175 \	L 802384 \

60 days

L 801133 \	L 801134 \
L 801168	L 801169 \
L 801170	L 801171 \
L 801172 \	L 801173 \
L 767701 \	

54 days

L 801135 \

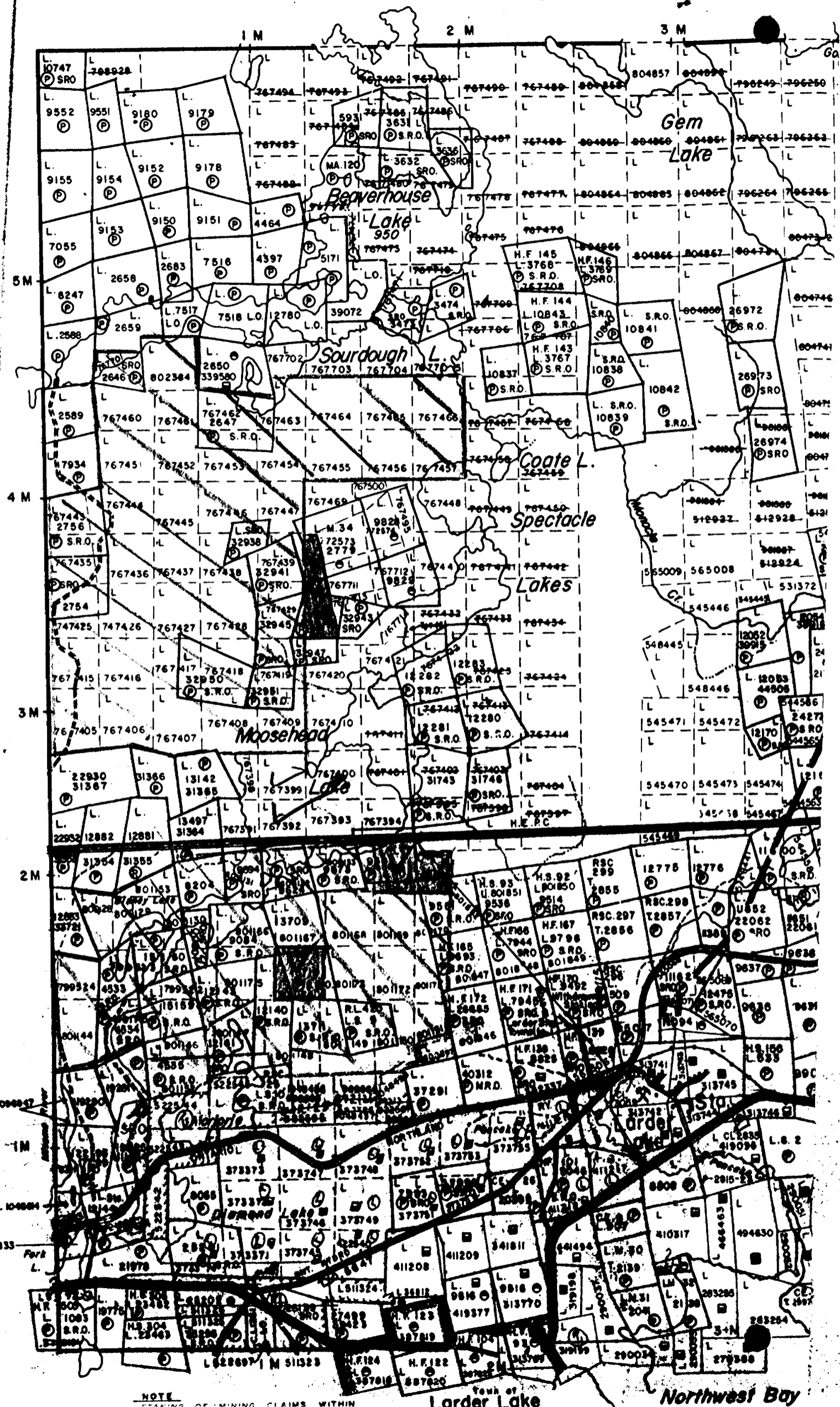
20 days

L 767405	L 767406	L 767407
L 767408	L 767409	L 767415
L 767416	L 767417	L 767418
L 767419	L 767425	L 767426
L 767427	L 767428	L 767429
L 767435	L 767436	L 767437
L 767438	L 767439	L 767443
L 767444	L 767445	L 767446
L 767447	L 767451	L 767452
L 767453	L 767454	L 767455
L 767456	L 767457	L 767460
L 767461	L 767462	L 767463
L 767464	L 767465	L 767466

Total = 3574 days

Mc Vittie

MINING, ORE AND OTHER PARCELS. E



NOTE
DRAWING OF MINING CLAIMS WITHIN

Larder Lake

Northwest Bay