

2A07SW0038 51 LANGMUIR

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Township: Langmuir

.

DIAMOND DRILLING

Report No: 51

WORK PERFORMED FOR: Lac Minerals Ltd.? DRUD J. MEUNICR

RECORDED HOLDER: SAME AS ABOVE [ ]

: OTHER [x] David J. Meunier

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
P 779603	LF-86-07	199.95m	Sept/86	(1)
р 779946	LF-86-08	212.4m	Sept/86	(1)
P 753439	LF-86-09	206.04m	Sept/86	(1)

NOTES: (1) #351-86 (filed in May/87)

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LAC MINERALS LTD. 91 DUNCAN AVENUE KIRKLAND LAKE, ONTARIO		GENERAL INFORMATION		Hole Nomber: Page Nomber: Logged By:	LF-86-07 1 J. Kovala
P2N 1Y2	PROJECT: Meunier - Langmuir East Grid	Type of Hole: I	DDH	DATE:	15/09/86
LOCATION:	Langmuir Township	AZIMUTH:	360 DEG.	DIP:	-45 DEG.
COLLAR: LATITUDE ELEVATION: COLLAR	L110	DEPARTURE : BOTTOM :	0+12.5N		
LENGTH : PURPOSE :	199.95 meters	RECOUERY :	98%	CORE SIZE:	BQ
DATE STARTED:	05/09/86	DATE ENDED:	09/09/86		

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ke foren og	LOCATION	AZIMUTH	DIP		REMARKS		
117. 1895 1977 1977 1977	0 200 400 600	360	-45 -43 -41 -40	A A A A	COLLAR		
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LAC MINERALS LTD. GEOLOGICAL AND ASSAY DATA DRILL HOLE: LF-86-07 PROJECT: Meanier TARGET FROM **T**0 REMARKS SOMPLE SLUDGE MAGNETICS ASSAY (CORE) NUMBER FROM TO FEET/ AU FROM AU FROM **T**0 MGT. TO. METERS ppb ppb ppb ppm 0 2.44 OVERBURDEN 2.44 199.95 ULTRAMAFIC FLOW (PERIDOTITIC KOMATIITE) Dark green to black, bluish hue; dominantly fine grained, medium grained sections; strongly magnetic, grey altered sections less magnetic. Spinifex texture; skeletal foliated olivine and some polygonal joints visible throughout section. Serpentinized weak to moderate, 5% carbonate serpentine +/- chlorite as veins, stringers, and masses throughout. Trace <1% minor pyrite and pyrrhotite associated with veins, stringers, and fracture surfaces. Sections of core intensely fractured, broken and ground throughout. @ 3.35: Ground core. 14.02 to 17.68: Broken and ground core. 17.22 to 17.68: 40% serpentinite and carbonate. 19.66 to 20.88: Broken and ground core. 21.64 to 22.25: Pyrrhotite smears along fracture surfaces. 28.65 to 29.26: Pyrrhotite along fracture surfaces. 31.24 to 31.54: Spinifex texture. 32.3 to 33.07: Spinifex texture. 35.36 to 35.97 and 36.27 to 36.42: Shear zone, fault gouge, clay

LAC MINERALS LTD. GEOLOGICAL AND ASSAY DATA PROJECT: Meunier DRILL HOLE: LF-86-07 TARGET : SAMPLE ASSAY (CORE) SLUDGE MAGNETICS FROM **T**0 REMARKS NUMBER FROM FROM FROM FEET/ AU AU **T**0 HGT. T0 **T**0 METERS \$ ppb ppb ppb ppm ppm minerals, minor pyrite and pyrrhotite. @ 36.42: 1 cm wide carbonate and guartz vein at 50 DEG. to core axis; 10% pyrrhotite. 37.95 to 38.01: Fault gouge, clay minerals. 40.97 to 41.45: Broken and ground core. 42.73 to 42.79: Fault gouge, clay minerals. 43.53 to 43.74: Serpentinized, altered and bleached grey. 57.0 to 57.21: 3 cm wide guartz carbonate vein at 45 DEG. to core axis. 59.34 to 59.59: Silicified. 59.59 to 60.20: Fault gouge and clay minerals, sheared at 10 DEG. to core axis; minor quartz carbonate stringers. 60.96 to 62.48: 15% guartz carbonate stringers at all angles to core axis. From 61.81 to 61.97 quartz carbonate veins and masses. 6.63.4: 3 cm wide quartz carbonate vein at 20 DEG. to core axis. 4.16 to 65.23: Broken core, minor pyrrhotite on fracture surfaces. 64.31 and 65.96: Pyrrhotite on fracture surface. 66.29 to 67.67: Broken and ground core.

անատությունը հայտանակությունը է հանցեստերի այս ուրին։ ՀՀՀ ՀՀՀ			
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LAC MINERALS LTD GEOLOGICAL AND A		DRILL HOLE: LF-86-07 PROJECT: Meunier TARGET:	
FROM TO	REMARKS	SAMPLE ASSAY (CORE) SLUDGE MAGNI NUMBER FROM TO FEET/ AU FROM TO AU FROM METERS ppb ppb ppm ppm ppm ppm ppm ppm	GNETICS ROM TO
	71.54 to 74.68: Fault Zone Altered grey from 71.53 to 71.63; quartz carbonate vein at 60 DEG. to core axis containing 35% pyrrhotite masses, broken and ground core, fault gouge and clay minerals at 72.54 to 72.73, 73.27 to 73.91 and 74.13 to 74.46.		
	79.24 o 79.55: Broken core.		
	81.99 to 82.30: Spinifex texture.		na y night national
	102.72 to 105.77: Altered grey.		
	105.31 to 105.50: Broken core.		
	<u>108.51 to 110.03: Altered grey.</u>		
м. 1997 — Полоналия 1997 — Полоналия 1997 — Полоналия	<pre> @ 124.97: Pyrrhotite along fracture surfaces. </pre>		
	e 138.99: Broken and ground core.		
	142.95 to 145.39: Coarse texture, light grey.		
	163.07 to 163.37: Broken core.		an part and Field. Sector of the sector of t
	178 92 to 179.22: Broken core.		
	193.24 to 193.55: Broken core.		
199.95	END OF HOLE		
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LAC MINERALS LTD. 91 DUNCAN AVENUE KIRKLAND LAKE, ONTARIO		GENERAL INFORMATION	HOLE NUMBER: PAGE NUMBER: LOGGED BY:	LF-86-08 1 J. Kovala
P2N 1Y2	PROJECT: Meunier	Turne of Males DDW	DATE:	November 13, 1986
F2N 112	rkwedt: neunter	Type of Hole: DDH	DHIE	NOVEMDEI 13, 1300
LOCATION: COLLAR: LATITUDE ELEVATION: COLLAR	Langmuir Township L100		60 DEG. DIP: +87N	-45 DEG.
LENGTH: PURPOSE:			8% CORE SIZE:	BQ
DATE STARTED:	10/09/86	DATE ENDED: 15	5/09/86	

1. 1997 - 1 - 4, - 4,		1TA 		***********	
	LOCATION	AZIMUTH	DIP	METHOD	REMARKS
	ананананананананананананананананананан	360	-45	· · · · · · · · · · · · · · · · · · ·	COLLAR
	200		-44	A	
	400		-42	A	
en en Grander	600	 2	-38	A	
PORC	UPINE AREAS	DIVISION		1.0	· · · · · · · · · · · · · · · · · · ·
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LAC MINERALS LTD. GEOLOGICAL AND ASSAY DATA DRILL HOLE: LF-86-08 PROJECT: Meunier TARGET FROM TO REMARKS SAMPLE ASSAY (CORE) SLUDGE MAGNETICS NUMBER FROM AU FROM FROM TO FEET/ AU MGT. TO TO. METERS ppb ppb nah 0.00 3.05 OVERBURDEN 3.05 82.39 ULTRAMAFIC FLOW (PERIDOTITIC KOMATIITE) Dark grey green to black bluish hue; dominantly fine grained with medium grained and coarse grained spinifex textured sections; strongly magnetic. Spinifex textures throughout as 10 cm to 60 cm sections of 0.3 to 0.4 mm wide by 1 to 8 cm long stacked and criss - crossing blades of relic olivine, skeletal foliated olivine seen as parallel crystal alignment typically beneath spinifex zones. Possible polygonal joints (cooling sutures) seen as tortuous fractures. Altered grey sections are less magnetic. 3% carbonate stringers at all angles to core axis. 5% carbonate guartz +/- serpentine +/- chlorite along fractures and as masses and veins. 3.05 TO 3.96: Broken and ground core. 6.1 to 7.01: Broken and ground core. 11.28 to 11.82: Spinifex. 15.64 to 15.82: 7 wm wide carbonate stringer at 20 DEG. to core axis, carbonate masses. @ 20.12: 1 cm wide serpentine and carbonate vein at 12 DEG. to core axis. @ 23.47: Pyrite on fracture surface with carbonate and chlorite. 26.27 to 26.43: 1.5 cm wide serpentine carbonate and guartz vein

LAC MINERALS LTD GEOLOGICAL AND ASSAY DATA DRILL HOLE: LF-86-08 PROJECT: Meunier TARGET ---------FROM SAMPLE SLUDGE MAGNETICS T0 REMARKS ASSAY (CORE) FROM MGT. NUMBER FROM T0 FEET/ AU FROM T0 AU T0 \* METERS ppb ppb חתכם לכום nqq at 10 DEG. to core axis with 2-3% pyrite. @ 27.52: Broken core. 27.92 to 28.01: Spinifex. 28.16 to 28.5: Spinifex. @ 30.88: Pyrite on fracture surfaces. @ 31.09: Pyrite on fracture surfaces. 31.55 to 32.0: Broken core, serpentine carbonate and minor pyrrhotite along fractures. 34.5 to 34.8: Broken core, serpentine carbonate and minor pyrrhotite on fracture surfaces. 35.05 to 35.36: Serpentinized and carbonate altered. 36.97 to 37.61: Spinifex. 39.93 to 40.97: Spinifex. \$1.15 to 42.37: Serpentinized carbonate altered grey. .58 to 42.82: Skeletal foliated olivine aligned at 40 DEG. to 41 core axis. @ 45.08: 1 cm wide serpentine vein at 60 DEG. to core axis.

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LAC MINERALS LTD. GEOLOGICAL AND AS		DRILL HOLE:	LF-86-0	8	PROJE	CT: M	eunier			TARGET :							- 3 2
FROM TO	remarks	Sample Number From		FEET/ Meters	ASSAY AU ppb	(CORE	) ppm p	bur i	opm pp	A	SLUDGE FROM	TO	AU ppb		Magneti From		M
<b></b>	@ 47.55: Serpentine.																
	51.51 to 51.97: Polygonal joints?																
	71.02 to 71.26: Spinifex.																
nan	72.97 to 74.68: Spinifex.																
na (2017) Mana ang sa	79.77 to 81.84: Flow Breccia 70% - 0.2 to 2 cm grey green, subangular fragments weakly aligned at 70 DEG. to core axis.			•													
	2 to 5 mm wide carbonate stringers all at 70 DEG. to core axis occur at 81.05, 81.07, and 81.14 m. Lower contact sharp at 47 DEG. to core axis.			1		** 1 t											
82,39 82.6	GRAPHITIC SEDIMENTS Black very fine grained graphite; hard graphitic lenses in softer matrix;					· · · · · · · · · · · · · · · · · · ·											
	weak foliation at 45 DEG. to core axis; section lacks sulfides.			- e.,			· · · · ·		<del>-</del> -					· · · ·		· · · · · · · · · · · · · · · · · · ·	
ggg affiliat statut a to . Statut af an a to to to to	82.45 to 82.6: Ground, broken; lower contact ground.																
<b>82.6 87</b> .57	ULTRAMAFIC FLOW WITH THIN 2.5 CM GRAPHITIC SECTION Ultramafic flow same as 3.05 to 82.39				······ / *			• • • • •									
0N 501	82.6 TO 273.4: Broken core.				· •, ••;			gann .									
GENVEN	84.43 to 85.04: Spinifex.						· · · · · · ·	a *					$\Lambda$	()			
1 9 1986	86.99 to 87.02: Graphite.												0/1	$\mathcal{V}$			

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	NERALS LTD. ICAL AND AS		DRILL HOLE:	LF-86-	PROJECT: Meanier 1	ARGET :			
FROM		REMARKS	Sample Number From		ASSAY (CORE) AU	SLUDGE FROM TO	AU ppb	MAGNETIC	
		82.02 to 87.17: Graphite, pyrite, and pyrrhotite along fractures.							
		@ 87.42: Ground core, fiberous serpentine vein. Lower contact not distinct.							
87.57	87.72	GRAPHITIC SEDIMENTS Black very fine grained graphite; 8 mm sulfide band at 50 DEG. to core axis consisting of pyrrhotite and pyrite; pyrite occurs along fractures.							
87.72	87.98	ULTRAMAFIC FLOW? Lower contact at 20 DEG. to core axis? with pyrite along fractures.							
87.98	88.09	GRAPHITIC SEDIMENTS 5 to 15 mm rounded nodules of pyrrhotite, pyrite, and graphite in a softer black graphitic matrix; lower contact at 25 DEG. to core axis.							
88.09	89.28	ULTRAMAFIC FLOW Same as 3.05 to 82.39.							
		88.09 to 88.51: Spinifex.							
89.28	89.52	GRAPHITIC SEDIMENTS Black, soft, lacks sulfides.							
<b>89.5</b> 2		ULTRAMAFIC FLOW Same as 3.05 to 82.39. Lower contact at 60 DEG. to core axis?							
89.52	90.16	ULTRAMAFIC FLOW Same as 3.05 to 82.39.							

	s ltd. And Assay data 	DRILL HOLE:	LF-86-08	PROJECT:	Meunier	TARGET :				
FROM T	REMARKS	Sample Number From	to feet/ Meters	Assay (CO Au	RE)	SLUD FRO	GE	AU ppb	MAGNETICS	5 TOMGT. %
	20%, 1 to 4 cm rounded nodules of sulfide and graphite in softer graphite matrix; sedimentary fragments also visible in matrix; weak foliation (alignment of fragments) visible at 47 DEG. to core axis.									
	90.34 to 90.56: Broken core.									
90.53 90	ULTRAMAFIC FLOW Same as 3.05 to 82.39.									
90.98 91	GRAPITIC SEDIMENT 1.5 to 3.5 cm round sulfide nodules consisting of pyrrhotite, pyrite and graphite in a graphite matrix; pyrrhotite in fractures throughout. Lower contact not distinct.									
91.25 91	55 ULTRAMAFIC FLOW Same as 3.05 to 82.39. Lower contact at 53 DEG. to core axis.			Salama a set a	na se a se					
91.65 91	25%, 1 to 2 cm rounded pyrrhotite and pyrite? and graphite modules in		and an and the star of a		Andra Social de la composition de la co La composition de la co La composition de la co La composition de la compositi composition de la composition de la compositi compositi					
<del>9</del> 1.99 94	a graphitic matrix. Lower contact not distinct. 06 ULTRAMAFIC FLOW								на средска и след На след на след В след на след В след на след В след на след В след на след н В след на след н В след на	<ul> <li>and a state</li> </ul>
	Same as 3.05 to 82.39.		n yn e trê e ry'n e't haff âf sy' syna. Se e staat yn e't haff âf sy' syna. Se e staat yn se e staat yn se staat	an a	a Superior and the second s	1.9 ·				
UNG DIV	92.05 to 92.29: Spinifex.									
PEIV	E 192.93 to 93.06: Altered light green. Lower contact ground.					1. 				
94.06 95 NOV 191	13 MIGACEOUS DIKE? (ALTERED SEDIMENT?)		· · · · · · · · ·				$\hat{\Lambda}$	1/		
			·· ••••• ·	,	e e t e		9	JV		

AC MINERALS LTD. EOLOGICAL AND AS	say data	DRILL HOLE:	LF-86		PROJECT			 TARGET :			***********	****	
FROM TO	REMARKS	Sample Number From		FEET/ METERS	Assay (( Au	CORE)		, bàw	SLUDGE FROM	<b>T</b> 0	AN ឯឯឯ	HAGNETICS FROM TO	) MGT
	15 to 20%, 1 to 4 mm black biotite masses elongate; parallel to weak foliation at 46 DEG. to core axis; 2-3%, 1 to 3 mm carbonate amygdules in a grey matrix.							 					
95.13 108.87	ULTRAMAFIC FLOW Same as 3.05 to 82.39. Minor pyrite on fracture surfaces throughout, polygonal joints? (cooling sutures) visible at 104.85 m. Skeletal foliated olivine visible at 105.46 to 105.77 m. Coarse textured peridotite at 99.52 to 100.28 m. Lower contact at 42 DEG. to core axis.												
08.87 109.91	GRAPHITIC SEDIMENT 12 to 15% pyrrhotite and pyrite as 0.5 to 2.5 cm rounded nodules and irregular masses with slight elongation parallel to foliation at 47 DEG. to core axis and as irregular; fine bedding visible at 47 DEG. to core axis; lower contact ground.												
09.91 122.01	ULTRAMAFIC FLOW Same as 3.05 to 82.39. Minor pyrite along fractures.			1									
	111.04 to 111.25: Spinifex.												
n an	113.08 to 113.23: Spinifex.	*		• •		• ب ب	. ,						
	114.09 to 114.6: Spinifex.						-						
	115.15 to 115.31: Serpentinized												
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LAC MINERALS LTD GEOLOGICAL AND A	Issay Data	DRILL HOLE:	LF-86-		PROJECT		TARGET :					
FROM TO	REMARKS	Sample Number From		FEET/ METERS	ASSAY (CO AU	)RE)		SLUDGE FROM	TO	AU ppb	MAGNETICS FROM TO	
	120.4 to 122.01: Section becomes increasingly grey green and less magnetic; lower contact at 58 DEG. to core axis.								* = = +			
122.01 122.35	GRAPHITIC SEDIMENTS Hard black graphitic sediment containing 10% pyrrhotite and minor pyrite; foliation at 46 DEG. to core axis.											
122.35 123.17	ULTRAMAFIC FLOW? Non-magnetic; grey.											
123.17 123.26	SEDIMENTS, GRAPHITE Light green and dark green bands at 48 DEG. to core axis. Thin graphitic section from 123.25 to 123.26 m.											
123.26 160.32	ULTRAMAFIC FLOU				°⊗ -#• •							
	Same as 3.05 to 82.39. Thin serpentine and carbonate stringers occur parallel to core axis. The section is a light grey colour from 123.26 to 125.27, from 125.27 to 137.92 the section is black in colour.		ana sa ang	nna fra transferencia a garante transferencia	ere a composition de la compos						e de la co	
	123.90 to 124.21: Spinifex.			19 - 11 - 24 - 14 19 - 24 - 24 - 24 19 - 24 - 24 - 24 19 - 24 - 24 - 24		naan oo na						
	125.67 to 125.97: Pyrrhotite on fracture surface.		ay arg	n n T	er start.							
ne se antigen a la construction de la construction de la construction de la construction de la construction de La construction de la construction d	128.93 to 129.23: Polygonal joints.										· · · · ·	
	137.07 to 137.77: Moderately serpentinized 2-3% pyrrhotite occurs as 1 to 2 mm blebs, disseminated and along microfractures.				n na sana sana sana sana sana sana sana							
	137.86 to 137.95: 20% carbonate stringers.		nation of	· · · · · · · · · · · · · · · · · · ·	Bryst Portford Port Bour contraction							
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GEOLOG	inerals ltd. Sical and as	assay data	DRILL HOLE:			: Meanie	 TARGET :				1		_
FROM		REMARKS	Sample Number From	FEET/	ASSAY (C	CORE)	: ppm	SLUDGE FROM		AU ppb	Magnetic FRom	TICS	MGT.
		@ 139.99: Minor chalcopyrite along fracture.											
		140.11 to 140.27: Fault zone, brecciated core, fault gouge, and clay.											
		140.27 to 142.31: Silicified, carbonate altered, 25 - 30% guartz carbonate stringers at all angles to core axis; broken core from 141.06 to 141.37 m.											
		142.77 to 144.78: 2-3% pyrrhotite disseminated as clots, and along microfractures.											
		145.18 to 145.42: Altered and sheared, dark grey, fine grained, soft; foliation at 44 DEG. to core axis.											
97 - N. 1999 1997 - 1999 1997 - 1999 1997 - 1999		@ 145.82: Carbonate and serpentine stringer containing pyrrhotite at 20 DEG. to core axis.								,			
траф А. I. т 		@ 151.09: Broken core.											
in the second		156.64 to 156.79: 40% carbonate as veins 80 DEG. to core axis.											
anay (j. r. r.)		157.43 to 160.32: Altered grey.											
		@ 158.25: 2 cm wide carbonate vein at 80 DEG. to core axis.											
n n Maria Ingelina Kumpinan National State	1. a. 21. (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	@ 159.32 and 159.35: 1 cm wide carbonate veins at 75 DEG. to core axis.									 -		
n an ann an Anna an Anna Anna an Anna an		159.99 to 160.1: 35% carbonate masses.											
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LAC MINERALS LTI GEOLOGICAL AND	ASSAY DATA	DRILL HOLE:	LF-86-08	PROJECT :		TARGET :					
FROM TO	REMARKS	Sample Number From	TO FEET/ Meters	assay (Cor Au	RE)		SLUDGE FROM	то	AU ppb	MAGNETIC	TO MG
	@ 160.32: Broken core, lower contact.			· • • • • • • • • • • • •				*			
160.32 163.68	SEDIMENTS? Dark grey green, non-magnetic. From 160.32 to 161.85 mottled texture consisting of 35 to 40%, 1 to 4 mm micaceous masses; elongate, parallel to foliation at 50 DEG. in a fine grained grey matrix. Mica also visible from 162.55 to 163.68 m.						·				
	@ 162.4: 1.2 cm diameter bed consisting of 2-3 mm rounded fragments; contacts at 55 DEG. to core axis. Lower contact at 57 DEG. to core axis.										
163.87 172.06	PORPHYRY DIKE 10 to 15%, 0.5 to 2 mm diameter feldspar and quartz phenocrysts; 10%, 1-3 mm mafic phenocrysts in a grey white matrix.										
na se	@ 166.6: Carbonate mass with 5% pyrrhotite along fracture 15 DEG. to core axis; lower contact at 60 DEG. to core axis.										
172.06 199.43	ULTRAMAFIC FLOW Same as 3.05 to 82.39.			, and an or	and an						
an a	184.0 to 184.43: 30% serpentine masses and stringers.										
	185.22 to 185.38: Spinifex.				· · · · · · · · · · · · · · · · · · · ·					ta ang site	···· ·
Managana ang Kang Kang Kang Kang Kang Kan	185.38 to 185.62: Broken core.			· · · ·						,	
	187.05 to 187.45: Broken core.		n an	gentegen filment kommen i til en som Andre en som E							i i i
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GEOLOGICAL AND AS	d. Assay data		DRILL HOLE:	LF-86-0	08	PROJECT :	Meunier	IT	TARGET :				
FROM TO	Remarks	<b></b>	Sample Number From		FEET/ METERS	ASSAY (CO AU 5 ppb ppb	ORE) b ppm	ppm pp	n ppn	SLUDGE FROM	TO AU ppb	HAGNETICS FROM	HGT.
	187.69 to 187.85: Broken core.					*****		******					
199.43 199.67	MICACEOUS DIKE Dark grey black with fine mica (biotite?)	) throughout, non-magnetic.											
	@ 199.61: 3 cm carbonate vein at 45 DEG.	. to core axis.											
199.67 199.95	FAULT ZONE Broken core, fault gouge and clay minerals	ls.					and the state of t	CHTARI 7.60 REE	O CEOLODICAL EDGMENT PI EARCH CAR	SURVEY LES			
199.95 212.14	ULTRAMAFIC FLOW Same as 3.05 to 82.39.								EC 1 8 1983	l l			
a se sente a como de se	202.69 to 202.87: 35% carbonate masses.						len en en merriere	RE	OEIVE	D			
Alexandra an	@ 203.27: 3 cm wide quartz carbonate vein	·····					ee.	and		<b>NATURAL</b>		la da seconda de la composición de la c Transmissione de la composición de la co Transmissione de la composición de la c	
	ê 208.2: 6 cm diameter quartz carbonate m ê 208.24: 1.3 cm wide quartz carbonate ve							riolesi akingenaj			ener Stadio Contra da		
212.4	END OF HOLE			ń se j								an a	na s Cong
			an an 1977 a first a first an			n - Jahrya ata - Salaka na ata ata ata da 19 - Lina Tanang ata ata ata - Salak Salaka ata - Salaka - Salaka - Salaka Salaka - Salaka - Salaka - Salaka		an a	-	go Volton (n. 1993) 1943 - Boggi Albard, 1947 1955 - State Maria (n. 1967)			1940-9
		and fight of the state of the last of the state of the st						ti ettername Sala förstarige Manna trättar					
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	n na strik ingin'nya salah na katang naning sang salasi sa salasi sa salasi sa salasi sa salasi sa sa			ni iti i Regizer	ante a constante da servición Terrativa de la constante da servición Maria da servición de la constante da servición de la constante da servición de la constante da servición de la	5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5	an free and a						
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HOLE NUMBER: LF-86-09 LAC MINERALS LTD. GENERAL INFORMATION PAGE NUMBER: 91 DUNCAN AVENUE 1 LOGGED BY: J. Kovala KIRKLAND LAKE, ONTARIO 20/09/86 PROJECT: Meunier - Langmuir East Grid Type of Hole: DDH DATE: P2N 1Y2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ LOCATION: Langmuir Township 360 DIP: -45 AZIMUTH: DEPARTURE : L129 5+75N COLLAR: LATITUDE ELEVATION: COLLAR BOTTOM: 206.04 meters CORE SIZE: BQ LENGTH: RECOVERY: 98% PURPOSE : 16/09/86 DATE ENDED: 18/09/86 DATE STARTED: SURVEY DATA CNTARIO GEOLOGICAL SURVEY ASCESSMENT FILES LOCATION AZIMUTH DIP METHOD REMARKS RESEARCH CARICE 360 -45 COLLAR DEC 1 8 1983 -43 200 A -41 400 A 600 -40 RECEIVED A 

LAC MINERALS L' GEOLOGICAL AND	ASSAY DATA	DRILL HOLE:			Meunier	TARGET :					
FROM TO	remarks	Sample Number From	TO	ASSAY (CO) FEET/ AU METERS ppb ppb	RE) ppm ppm pp	SLUD FRO	ge M to	AU ppb	Magnetic From	7S TO 1	MGT. %

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## 0 5.4 OVERBURDEN

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5.4 206.04 ULTRAMAFIC FLOW (PERIDOTITIC KOMATIITE)

Dark grey green to black, bluish hue; light grey green altered sections; strongly magnetic; dominantly fine grained massive with occasional medium grained and coarse grained (bladed spinifex) sections. Readily identifiable spinifex texture and foliated skeletal olivine textures throughout; spinifex textures mark the top parts of flows and are visible as 0.1 to 0.2 mm thick, stacked and criss-crossing blades of olivine 1 to 8 cm in length occupy sections 10 to 100 cm in length; skeletal foliated olivine is visible as a parallel primary alignment of remnant crystals generally below the spinifex textures. Flow units indicate that flow top directions are to the south. Minor pyrrhotite occurs along fractures and is associated with quartz carbonate veins. Moderately to heavily serpentinized. From 5.48 to 44.5, the core is badly broken and ground with sections of clay minerals and fault gouges.

5.48 to 14.0: Grey black to reddish brown hematite? altered; 50% of core is broken and ground; 4% serpentine as masses and along fractures. A 9.14: 4 cm wide serpentine vein at 50 DEG. to core axis.

19.2 to 19.81: 20% quartz carbonate stringers at all angles to core axis.

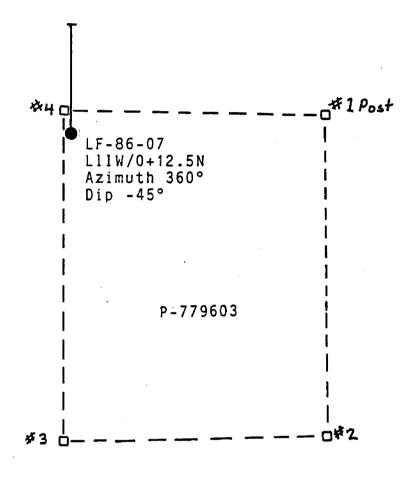
\_20.4 to 28.96: Grey altered section, broken and ground core sheared at 30 to 40 DEG. to core axis; 5% quartz carbonate stringers and veins.

23.77 to 24.07: Crenulated and sheared.

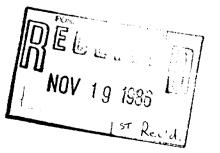
LAC MINERALS LTD. TARGET DRILL HOLE: LF-86-09 PROJECT: Meunier GEOLOGICAL AND ASSAY DATA MAGNETICS ASSAY (CORE) SLUDGE SAMPLE REMARKS FROM TO FROM TO AU FROM T0 MGT. AU NUMBER FROM T0 FEET/ • METERS ppb ppb ppb ppm ppm ppm ppm @ 25.08: 1 cm guartz carbonate vein at 35 DEG. to core axis. 25.18 to 25.45: Crenulated and sheared. @ 26.3: 0.5 cm quartz carbonate stringer at 45 DEG. to core axis containing 40% pyrrhotite masses. @ 26.42: 0.5 cm guartz carbonate stringer at 50 DEG. to core axis containing 30% pyrrhotite masses. 29.8 to 45.41: 4-6% serpentime stringers 1 to 4 mm wide at 60 to 90 DEG, to core axis in black massive section. 37.85 to 38.01: Serpentine carbonate and quartz vein at 48 DEG. to core axis. Banded appearance contains 10% magnetite (chromite?) 38.1 to 38.7: 30% irregular veins, stringers and masses consisting of 50% carbonate and 50% serpentine; 30% broken and ground core. 52.4 to 53.64: Carbonate altered bleached grey; @ 52.91, 2 cm quartz carbnate vein at 60 DEG, to core axis. E 60:04 to 60.35: Spinifex texture visible. 5217 to 63.03: Fault zone; fault gouge, clay minerals. NOV 1 9 1986 65.82 to 65.47: Spinifex texture. .to 67.97: 20% carbonate altered.

LAC MINERALS LTD. GEOLOGICAL AND ASSAY DATA DRILL HOLE: LF-86-09 PROJECT: Meunier TARGET FROM TO REMARKS SAMPLE ASSAY (CORE) SLUDGE MAGNETICS NUMBER FROM FROM TO FEET/ AU AU FROM TO MGT. TO METERS ppb ppb ppm ppb וחסס ppm ppm @ 68.7: 1.5 cm guartz carbonate serpentine vein containing 2% pyrite at 25 DEG. to core axis. @ 69.8: 1 cm quartz carbonate with minor serpentine at 25 DEG. to core axis. 70.22 to 70.35: Quartz carbonate veins and masses, 2% pyrite. 88.1 to 91.44: Broken core. 102.38: Carbonate stringer with minor pyrite. 104.15 to 104.36: 20% carbonate and serpentine stringers at all angles to core axis. @ 109.88: Pyrite along fracture surface. 122.8 to 123.75: Ground core. 137.25 to 137.61: Ground core. 138.99 to 139.23: Spinifex. 140.76 to 141.27: Spinifex. 143.44 to 143.65: 40% carbonate altered. EGEIV 147.2 to 148.2: Spinifex. NOV 19 1986 57 22 to 161.8: Broken core.

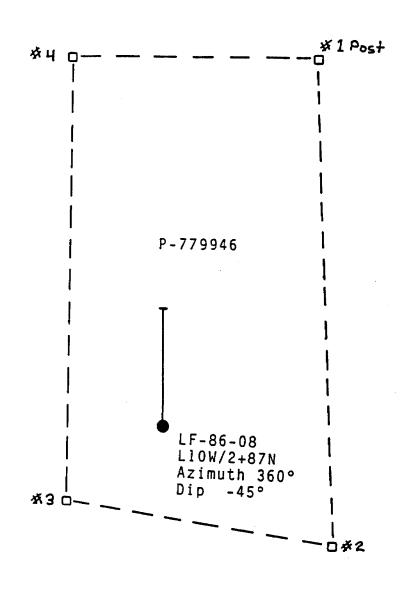
LAC MINERALS LTD. GEOLOGICAL AND ASSAY DATA DRILL HOLE: LF-86-09 PROJECT: Meunier TARGET : SLUDGE FROM TO REMARKS SAMPLE ASSAY (CORE) MAGNETICS NUMBER FROM TO FEET/ AU FROM FROM TO MGT. TO AU METERS ppb ppb ppm ppm ppb ppm ppm 166.42 to 167.3: Ground core. 174.34 to 174.60: 30% irregular carbonate veins. 174.95 to 175.23: Serpentine and carbonate veins at 45 DEG. to core axis. @ 198.12: 0.5 cm guartz carbonate vein at 50 DEG. to core axis. -@ 198,24: Ground quartz carbonate vein. tom, a lander inflation of a state of a state of @ 199.49: 1 cm guartz carbonate vein at 50 DEG. to core axis; 3% chalcopyrite ...... @ 667.3: 1 cm quartz carbonate vein at 80 DEG. to core axis. envelopinen entre beigen h 206.04 END OF HOLE U Ē NOV 1 9 1986 Joh Kovali



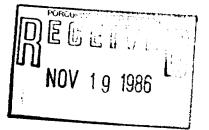
Drill Hole Location Plan Hole #LF-86-07 Langmuir Township Ontario Scale 1:5,000



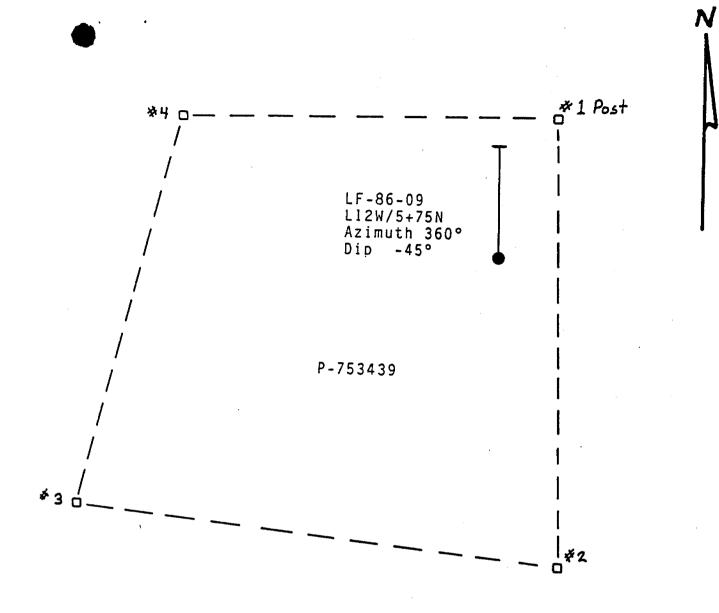
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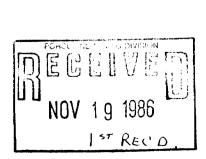
Drill Hole Location Plan Hole #LF-86-08 Langmuir Township Ontario Scale 1:5,000



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Drill Hole Location Plan Hole # LF-86-09 Langmuir Township Ontario Scale 1:5,000

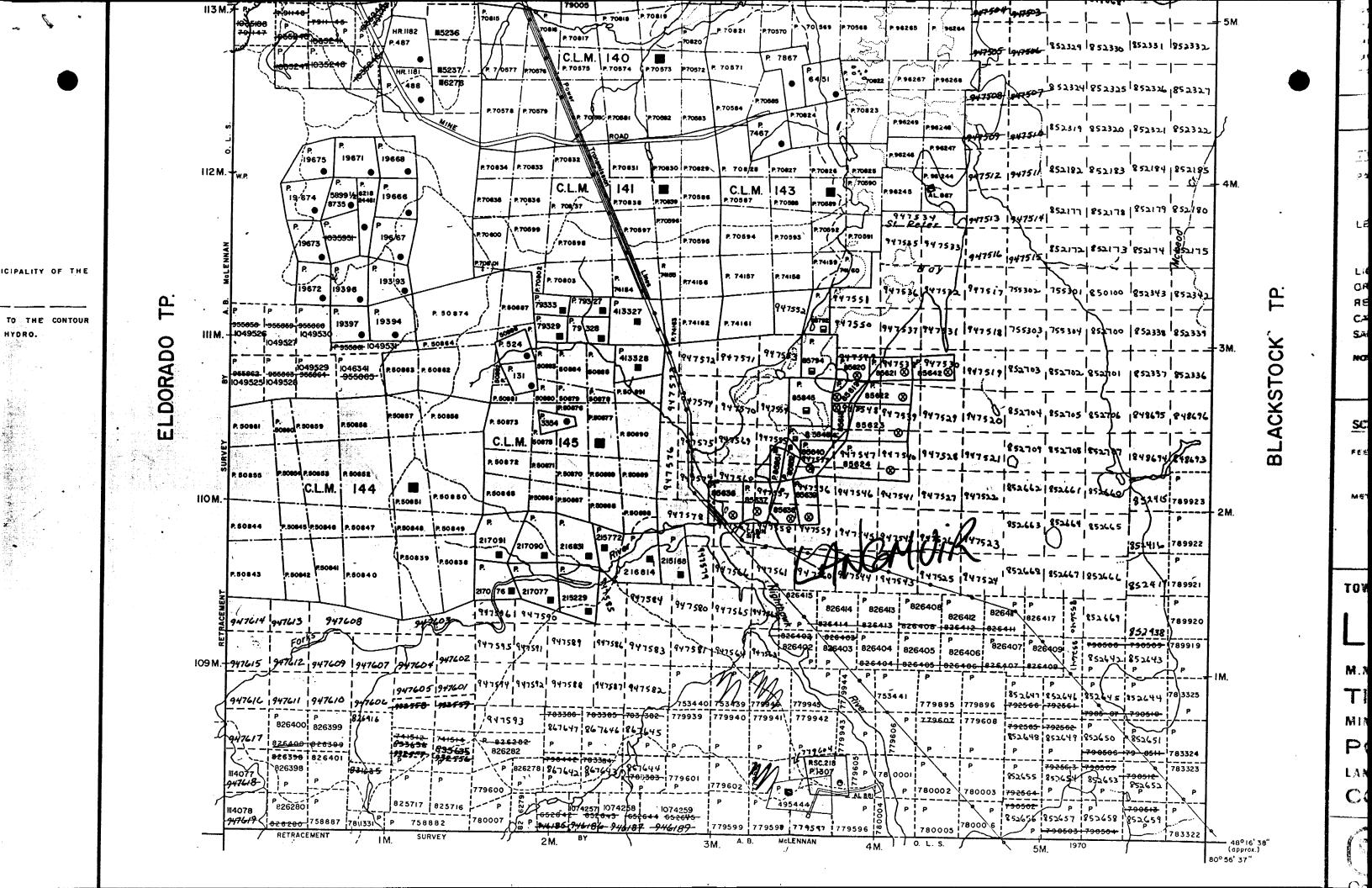


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Ministry of	Report	DOCUMENT N			
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mechanical equip.		++++	RECEIV	ED	
Diamond or other Core					
drilling					
Land Survey				S Production of the second sec	
All the work was performed o	on Mining Claim(s):				
Required Information eg:	type of equipment, Nar	mes, Addresses, etc.	(See Table Below)	•	
	AVS REMA	Ain .	Date of Report	RECORD SEP 15 1	E D 68
I hereby certify that I have	a personal and intimate kno			ork annexed hereto, having	performed the work
or witnessed same during an Name and Postal Address of P		ng the annexed report	IS TRUE.		
David N	LEUNIAR	. R.D.B.	Date Certified	۰ ۰	
\$ D	Q D-		Date Certified	Certified by (Si	andture)
Table of Information/Atta	CAT · T D chments Required by th	N-1110 e Minina Recorder	Nov 17 8	4 Aler Ale	phan
Type of Work	Specific informa		Other information (Com	nmon to 2 or more types)	Attachments
Manual Work	<u></u>				
Shaft Sinking, Drifting or other Lateral Work	Nil		Names and addresses of manual work/operated with dates and hours of	equipment, together	Work Sketch: these are required to show the location and
Compressed air, other power driven or mechanical equip.	Type of equipment				the location and extent of work in relation to the
Power Stripping	Type of equipment and a Note: Proof of actual cost within 30 days of recordir	must be submitted	Names and addresses of together with dates who		neerest claim post.

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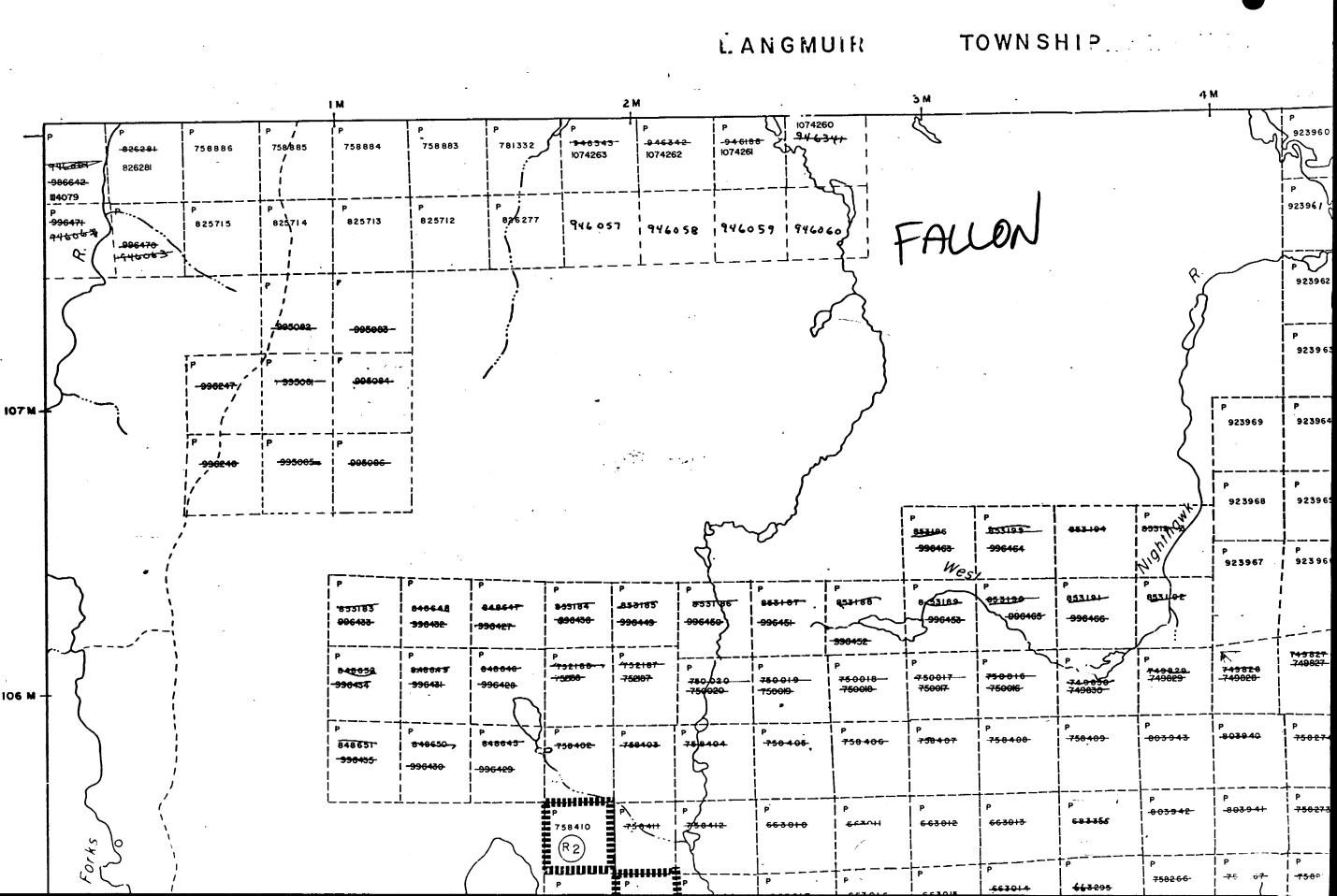
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Ontario Ministry of Northern Developm and Mines	Report <sup>nent</sup> of Work	<sup>#</sup> 351	186	Instructions —	type of w For Geo-te of Work (C	vork to be re schnical work ( Geological, Geo	corded (see to use form no. 1)	able below). 362 "Report
· · · ·	Recorded Holder	Min	ing Act		Expenditu	Prospector's L	licence Nó.	
David J.	Meunier					M-17	157	
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Duplicat	e drill logs a	and locati	ion sl	ketches su	bmitt	ed with		
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			JL		NOV	2 0 4000		
		20 1986		Date of Report		Recorded Hol	der or gent (	Signature)
				November	17/86	Joh.	1 KUU	ali
Certification Verifying Rep	a personal and intimate kno	wiedge of the fact	s set forth	in the Report of W	ork annexe	d hereto, havir	ng performed t	he work
or witnessed same during an	nd/or after its completion a							
Name and Postal Address of P John Kov	ala, 91 Duncar	Ave., K	(irkla	and Lake,	Ontari	io P2N	1 7 2	
· · · · · · · · · · · · · · · · · · ·				Date Certified		Certified by (S	Signature)	/
Table of Information/Atta	chments Required by th	e Mining Record	ler	November	1//86	Yun	ROU	w/s_
Type of Work	Specific informa			er Information (Co	mmon to 2	or more types	) Attach	ments
Manual Work								
Shaft Sinking, Drifting or	Nil			mes and addresses			Work Sket	
other Lateral Work				inual work/operate th dates and hours			are require the locatio	n and
Compressed air, other power driven or mechanical equip.	Type of equipment				,		extent of v relation to nearest cla	the
Power Stripping	Type of equipment and a <b>Note:</b> Proof of actual cos within 30 days of recordi	t must be submitte	1 148	mes and addresses ( gether with dates w			HOOTUSE CIE	
Diamond or other core drilling	Signed core log showing; core, number and angles o		do	n <del>s</del> .	-		Work Sket above) in d	
Land Survey	Name and address of Ont	ario land surveyer.			Nil		N	il 🦯
768 (85/12)								

## Langmuir and Fallon Township

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	Claim #	Work Days Credit		Claim #	Work Days Credit
1.	P-753439	40	22.	P-779940	40
2.	P-753440	40	23.	P-779941	40
3.	P-753441	40	24.	P-779942	40
4.	P-758882	20	25.	P-779943	40
5.	P-758887	40	26.	P-779944	40
6.	P-779596	40	27.	P-779945	40
7.	P-779597	40	28.	P-779946	40
8.	P-779598	40	29.	P-780001	40
9.	P-779599	40	30.	P-780002	40
10.	P-779600	20	31.	P-780003	40
1.	P-779601	40	32.	P-780004	40
2.	P-779602	40	33.	P-780005	40
3.	P-779603	40	34.	P-780006	40
4.	P-779604	40	35.	P-780007	40
5.	P-779605	40	36.	P-781331	40
6.	P-779606	40	37.	P-758883	40
7.	P-779607	40	38.	P-758884	40
8.	P-779608	40	39.	P-758885	40
9.	P-779895	40	40.	P-758886	40
20.	P-779896	40	41.	P-781332	40
21.	P-779939	40			

Total

1600 Days

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DECENCUPINE MINING DIVISION ECENTE NOV 1 9 1986 1st Recid. AKerula



-MINING RIGHTS ONLY

Service of the service of the service

- SURFACE RIGHTS ONLY

- MINING AND SURFACE RIGHTS

File

107 M

106 M

Order No. Date Disposition

Fallon Tup LANGMUIR 1 M 2 M ľΡ 1 826281 758886 758/885 -758 883 758884 781332 946061 946343 946342 946341 946188 Ρ PT P Ρ Ρ 825715 825714 946062 825713 826277 825712 946 057 1946058 1946059 1946060 G. 1946063

