



42C12NW0002 20 BROTHERS

010

DIAMOND DRILLINGTOWNSHIP: BROTHERS

REPORT NO: 20

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>
SSM607774	J-8-7	261.21 M	SEPT/87	(1)
SSM625585	K-7-3	206.35 M	SEPT/87	(1)
	K-7-4	166.72 M	SEPT/87	(1)
SSM607332	H-8-1	864.90 M	SEPT/87	(1)
SSM607943	H-10-1	282.5 M	SEPT/87	(1)
SSM607920	H-10-2	294.1 M	SEPT/87	(1)
SSM607741	I-8-10	356 M	AUG /86	(1)
SSM607730	I-8-11	192 M	AUG/86	(1)
SSM607739	I-8-12	350 M	AUG/86	(1)
SSM607738	I-8-13	386 M	AUG-SEPT/86	(1)
SSM607740	I-8-14	608 M	SEPT/86	(1)
	I-8-15	553.82 M	JULY-AUG/87	(1)
SSM607741	I-8-16	544.68 M	AUG/87	(1)
SSM607750	I-9-3	398 M	AUG/86	(1)
SSM607744	I-9-4	347 M	AUG/86	(1)
SSM607745	I-9-5	314 M	AUG/86	(1)
SSM607742	I-9-6	157.58 M	AUG/87	(1)
SSM607749	I-9-7	388.62 M	AUG/87	(1)
SSM607742	I-9-8	502 M	AUG/87	(1)

NOTES: (1) #W9140.182, FILED JULY/91

CONTINUED...

DIAMOND DRILLING

TOWNSHIP: BROTHERS

REPORT NO: 20 CONTINUED...

PAGE 2

WORK PERFORMED FOR: LAC MINERALS LTD.

RECORDED HOLDER: SAME AS ABOVE

: OTHER

<u>CLAIM NO.</u>	<u>HOLE NO.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
SSM607744	I-9-9	227.08 M	AUG/87	(1)
SSM607743	I-9-10	254.51 M	AUG/87	(1)
SSM607746	I-10-1	359 M	AUG/86	(1)
SSM607947	I-10-2	413 M	SEPT/86	(1)
SSM607943	I-10-3	368 M	SEPT/86	(1)
SSM607945	I-10-4	318 M	SEPT/86	(1)
SSM607946	I-10-5	139.30 M	SEPT/87	(1)
SSM607946 & SSM607973	I-10-6	202.69 M	AUG-SEPT/87	(1)
SSM607946	I-10-7	283.46 M	AUG/88	(1)
	I-10-8	174.7 M	AUG/88	(1)
	I-10-9	172.80 M	AUG/88	(1)
SSM607746 & SSM607973	I-10-10	151.50 M	AUG-SEPT/88	(1)

NOTES: (1) #W9140.182, FILED JULY/91

Buller's Twp

Diamond Drill Log Summary

Hole #: J-8-7

0-7.44m. Overburden

7.44-20.82m. Graywacke Sandstone

20.82-28.24m. Iron Formation (Oxide Facies)

28.24-54.72m. Graywacke Sandstone

54.72-66.49m. Pelite

66.49-70.04m. Feldspar porphyry

70.04-71.96m. Pelite

71.96-79.67m. Actinolite, Talc, Chlorite Schist

79.67-157.70m. Mafic Volcanic Rock

157.70-162.41m. Actinolite, Talc, Chlorite Schist

162.41-170.56m. Felsic Intrusive Rock

170.56-172.37m. Actinolite, Talc, Chlorite Schist

172.37-183.71m. Mafic Volcanic Rock

DLH

183.71-228.83m. Intermediate Volcanic Rock

228.83-234.65m. Graywacke sandstone

234.65-261.21m. Intermediate Volcanic and Volcanoclastic Rock

D. H. H.

607 730	629.76
607 732	2836.87
607 738	241.21
607 739	779
607 740	3810.81
607 741	2472.74
607 742	2163.42
607 743	834.79
607 744	2128.18
607 745	709.72
607 746	1395.4
607 747	143.1
607 748	320.2
607 749	1029.47
607 750	1305.55
607 752	481.16
607 754	369
607 755	1024.87
607 774	856.77
607 920	60.3
607 943	2671.68
607 945	603.02
607 946	3380.7
607 947	1312.74
607 948	366.31
607 972	41.9
607 973	369.37
625 545	726.65
625 581	338.62
625 583	885.05
625 584	336.92
625 667	596.83

DRILL HOLE

J-8-7

LAC MINERALS LTD.

GEOLOGICAL ENCODING FORM

Page 1 of 4

PROJECT

White River

PROPERTY

J-8

TARGET Sedimentary - Mafic volcanic contact

Core Size

BQ

Date Started

Sept. 7, 1987

Line

L12+50 E

Northing

Dude

Drilled by

Advance

Date Completed

Sept. 10, 1987

Station

3+00 S

Easting

Surveyed by

RAC

Date Logged

Sept 9, 1987

Unit of Measurement

metric

Elevation

Logged by

RAC

Line Grid Azm.

N-5

Survey Grid Azimuth

N-5

Total Depth

261.21 m

FLAG	FROM	TO	REC% MIX%		ROCK		ET		R-F MINERALS			TYPIFYING MATERIAL			COL		GRN SIZE CST MDR				TEXTURES		XLMP	FC	CO	SIDP	S2DP
			Ms	Bi	To	Ky	Go	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb					
			REMARKS																								
	0	7.44																									
	7.44	20.82																									
	14.93	19.41																									
	20.82	28.24																									
	20.82	27.55																									
	28.24	54.72																									
	28.24	30.12																									
	46.64	47.13																									
	47.28	48.98																									
	49.50	52.47																									

Lac Minerals Inc.

Brotter

Diamond Drill Log Summary

Hole # : K-7-3

- 0 - 5.79 m. Overburden
- 5.79 - 18.35 m. Graywacke Sandstone
- 18.35 - 27.33 m. Pelite
- 27.33 - 45.00 m. Graywacke Sandstone
- 45.00 - 84.00 m. Pelite
- 60.30 - 71.46 m. Pelite intercalated with Quartz-eye bearing Felsic Volcanic Rock
- 84.00 - 94.00 m. Intermediate Volcanoclastic Rock
- 94.00 - 117.67 m. Pelite
- 117.67 - 123.26 m. Feldspar Porphyry
- 123.26 - 128.84 m. Pelite
- 128.84 - 148.00 m. Felsic Volcanic Rock w/ Feldspar Crystals as dominant Fragment Type.
- 148.00 - 202.93 m. Pelite
- 202.93 - 206.35 m. Feldspar Porphyry D. Holm

DRILL HOLE

K-7-3

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

K-7

TARGET Qtz-eye Spritz Schist

Dakota

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS					TYPIFYING MATERIAL					COL	GRN SIZE			CST MOR			TEXTURES					XLMP	FC	CO	S1DP	S2DP
								Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb		Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg					
	94.00	117.67			PELT U			QZ	FX	BT	MS 5				4A	2	3	3			BN	FD							BN05	FX05				
					L:5																													
	99.5	117.67			40 SAND S			QZ	FX	BT					3A	3	3	4			BN	FX							BN05	FX05				
	117.67	123.26			FXPP U			QZ	FX	BT	Ax 5	FP10			3A	2	3	5			MS	PP							FP5 5					
	123.26	128.84			PELT U			QZ	FX	BT	MS 5				4A	2	3	3			BN	FX							BN05	FX05				
	123.53	124.89				M					Ax 5																							
	124.89	125.96			100 QZVN S			QZ																										
	128.84	148.00			FPFV U			QZ	FX		FP 10	BT 5	MS 10		6A	2	3	5			FX	PP							FP5 5	FX05				
					2:10 D:5																													
	131.90	133.73			100 MESH S			BT	Cl						3G	3	3	4			FX	SC							FX05	SC05				
	135.47	137.51			72 FXPP S			QZ	FX		EP 10				6A	2	3	5			MS	PP							FP5 5					
	139.08	145.50				M																												
	145.50	171.12			PELT U			QZ	FX						5A	2	3	3			BN	FX							BN05	FX05				

DRILL HOLE

K-7-3

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY K-7

TARGET Qtz-Egg Sericite Schist

Dyke

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	OO	SIDP	S2DP				
								Ms	Bi	To	Ky	Ga	St		Ep	Qz	Oe	Cb	Ba	Cl	Cd						Kf	Hm	Mg	Po
			REMARKS																											
	155.95	170.00	05	MSSH	S		10m	Cl	BI					3G	3	3	4			BN	FX						BNOS	FXOS		
	166.23	168.00	100	BREC	S			QZ			Cb									BR								Dtr		
	174.63	202.93		PELT	U			QZ	FX	BI				4H	2	3	3			BN	FX							BNOS	FXOS	
	176.51	176.66	100	FXPP	S			QZ	FX		FP15			5A	2	3	5			MS	PP							FPSE	DY	
	181.05	188.74	25	FLIN	S			QZ	FX					5A	2	3	3			MS									DY	
	193.30	202.93	25	SAND	S			QZ	FX	BI				PH	3	3	4			RN	FX								BNOS	FXOS
	194.42	195.51	95	FXPP	S			QZ	FX		FP20			5A	2	3	5			MS	PP								FPSE	DY
	202.93	206.35		EXPP	U			QZ	FX		FP20			5A	2	3	5			MS	PP								FPSE	DY
	203.00	206.29	10	PELT	S			QZ	FX	BI				4H	2	3	3			BN	FX								BNOS	FXOS
	206.35	206.35					M																							
			End of Hole																											

Diamond Drill Log Summary

Hole # : K-7-4

0-1.52 m. Overburden

1.52-121.54 m. Graywacke Sandstone

61.68-71.33 m. Graywacke Sandstone intercalated w/ Qtz-eye bearing
Felsic Volcanic Rock

121.54-127.10 m. Feldspar Porphyry

127.10-154.69 m. Pelite

154.69-157.69 m. Quartz, sericite, Schist

157.69-166.72 m. Pelite

D. Man

DRILL HOLE

K-7-4

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY K-7

TARGET QZ-Eve Sericite Schist

Core Size BQ Date Started Sept. 28, 1987 Line L16+50W Northing Duplicate
 Drilled by Advance Date Completed Sept. 29, 1987 Station S+255 Easting _____
 Surveyed by RAC Date Logged Oct 3, 1987 Unit of Measurement metric Elevation _____
 Logged by RAC Line Grid Azm. N-S Survey Grid Azimuth _____ Total Depth 166.72

FLAG	FROM	TO	REC%		ROCK	ET	T	R-F MINERALS					TYPIFYING MATERIAL					COL	GRN SIZE		CST	MDR	TEXTURES					XL	MP	FC	CO	SIDP	S2DP				
			Ms	Bi				To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl		Cd	Kf			Hm	Mg	Po	As	Py							Sb	Pg	Mo	Au
			REMARKS																																		
	0	1.52			CASG	U																															
	1.52	121.54			SAND	U			QZ	FX	BI						3A	3	3	4				BN	FA									BN05	FA05		
	28.47	54.00		30	PELT	S			QZ	FX	BI						4A	2	3	3				BN	FA									BN05	FA05		
	30.21	30.39		100	FXPP	S			FX	QZ			FP20				5A	2	3	5				MS	PP										DY		
	61.68	71.33		40	FPFV	S			FX	QZ			BI 10	FP10			6A	2	3	4				SC	FA										SC05	FA05	
	72.00	88.61		40	PELT	S			QZ	FX	BI						4A	2	3	3				BN	FA										BN05	FA05	
	97.97	107.47		7	MFESH	S			BI	CI							3G	3	3	3				SC	FA										SC05	FA05	
	121.54	127.10			FXPP	U			QZ	FX	BI		FP20				5A	2	3	5				MS	PP											DY	
	123.12	125.75		90	ININ	S			FX	AX	QZ						4GSA	2	2	4				SC	MS											DY	
	125.75	126.90		60	PELT	S			QZ	FX	BI						4A	2	3	3				BN	FA											BN05	FA05

DRILL HOLE

K-7-4

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY K-7

TARGET Qtz-cue sericite schist

Dobler

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	S1DP	S2DP			
								Ms	Bi	To	Ky	Ga	St		Ep	Qz	Oe	Cb	Ba	Cl	Cd						Kf	Hm	Mg
			REMARKS																										
	127.10				PELT U			QZ	FX	BI				4A	2	3	3		BN	FR						PN05	FO05		
	139.00	151.50	5		FPEV S			FX	QZ		FP10			6A	2	3	4		SC	PP						FPS4	SA05		
	152.54	154.17	100		MESH S			BI	Cl					3G	3	3	3		SC								SC05		
	154.69	157.69			MSSH U			MS	QZ					6A	3	3	3		SC								SC05		
	157.69	166.72			PELT U			QZ	FX					5A	2	3	3		BN	FR							BN05	FO05	
	157.69	159.29				M																							
	166.72	166.72				M																							
					End of Hole																								

Diamond Drill Leg Summary

Hole# : K-7-5

0-2.90 m. Overburden

2.90-102.72 m. Graywacke Sandstone

D. W. ...

DRILL HOLE

K-7-5

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

K-7

TARGET Qtz-luc sericite schist

Core Size BQ
Drilled by Advance
Surveyed by RAC
Logged by RAC

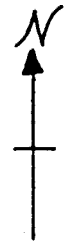
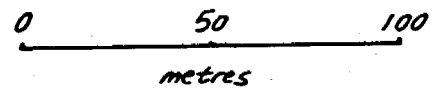
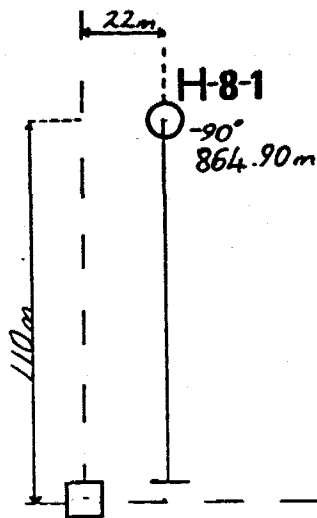
Date Started Sept. 29, 1987
Date Completed Oct. 2, 1987
Date Logged Oct 10, 1987
Line Grid Azm. N-S

Line L15+00W
Station 9+255
Unit of Measurement Metric
Survey Grid Azimuth

Northing
Easting
Elevation
Total Depth 102.72

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS					TYPIFYING MATERIAL					COL	GRN SIZE	CST	MDR	TEXTURES					XL	MP	FC	CO	SIDP	S2DP						
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg	Au														
			REMARKS																																			
	0	2.90			CASG	U																																
	2.90	102.72			SAND	U		QZ	FX	BI						3A	334			BN	FO																	
	2.90	29.00			10	PELT	S		QZ	FX						4A	233			BN	FO																	
	38.30	55.66			25	QZVN	S		QZ							W	333			MS																		
	64.24	64.94			100	QZVN	S		QZ							W	333			MS																		
	75.90	76.60			100	MSSH	S		QZ	FX	MS	QE	5			6A	233			SC																		
	102.72	102.72					M																															
					End of Hole																																	

SSM
607732



D. Adams

Drawing Location sketch H-8-1. Brothers Twp
Thunder Bay District

Dwn. By DNA

Scale 1:2000

Date 29 May 1991

Dwng. No. 1



White River (H-8)

PROJECT

TYPE OF HOLE D.D.H. R.O.H. P.D.H.

R.O.H.

P.D.H.

PAGE No. _____

LOGGED BY _____

DATE Sept

CORE				TO	LEGEND		DESCRIPTION	HOLE LOCATION WITH RESPECT TO CLAIMS			LOCATION <u>20+00, 12+50N</u> AZIM						
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION		FROM	TO		LOCATION	COLLAR: LATITUDE	DEPART:	ELEVATION: COLLAR	BOTT:	LENGTH: <u>864.90m</u>	RECOVERY <u>100</u>	PURPOSE: <u>To Test the upper arc</u>	DATE: STARTED <u>Sept. 15, 1998</u>	END
					0	3.50	Overburden										
					3.50	340.09	Granite (Cedar Lake Pluton) - This rock is medium pinkish gray color w/ an igneous equigranular texture. The grain size is coarse-grained. The rock is composed of Feldspar, quartz, biotite, amphibole, and trace epidote. From 67.12 to 67.42m Biotite schist From 68.45 to 68.63m Mafic clasts From 70.24 to 70.27m Mafic clast From 81.13 to 81.44m Biotite schist From 86.99 to 87.02m Mafic clast From 125.98 to 136.00m Mafic clast From 180.11 to 180.12m Mafic clast From 211.36 to 211.72m Mafic clasts From 325.17 to 325.86m Pegmatite.										
					340.09	342.79	Pselite - This rock is dark gray in color and thinly banded. The grain size is fine-grained. The rock is composed of quartz, biotite, sericite, feldspar and trace pyrothite. d to C.A. 42°										
					342.79	358.00	Felsic Intrusive - This rock is medium gray in color w/ an igneous equigranular texture. The grain size is medium to coarse-grained. The rock is composed of feldspar, quartz, biotite and amphibole.										

Dr-core

[Signature]

DRILL HOLE GEOLOGIC LOG

PROJECT White River (H-8) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND												HOLE LOCATION WITH RESPECT TO CLAIMS		LOCATION				ASSAY			
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE				ASSAY									
								%C	%F	%M	%Py	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU g/t						
							From 732.00 to 742.97m Sericite (7%), Carbonate (1%) and abundant Pelite.					A58416	731	732											
							From 736.12 to 736.23m Fractured and brecciated					A58417	732	733											
							From 742.87 to 745.00m abundant amphibole band (23%).					A58418	733	734											
							From 745.00 to 750.00m Pyrite and pyrrhotite (1%), sericite (10%), amphibole bands (5%) and Pelite.					A58419	734	735											
							From 750.75 to 752.2m Garnet (2%) and Staurolite (1%).					A58420	735	736											
												A58421	736	737											
												A58422	737	738											
												A58423	738	739											
												A58424	739	740											
												A58425	740	741											
					756.69	762.10	Felsic to Intermediate Volcanic Rock (Egg Lake Horizon) - This rock is pale green to white in color and is both well banded and schistose. The grain size is medium-grained. The rock is composed of quartz, feldspar, sericite, amphibole, carbonate, pyrite (3%) and pyrrhotite (1%) & to C.A. 70°					A58426	741	742											
							The pyrite and pyrrhotite occur as disseminations down hole sericite increases and amphibole decreases					A58427	742	743											
												A58428	743	744											
												A58429	744	745											
												A58430	745	746											
												A58431	746	747											
												A58432	747	748											
												A58433	748	749											
												A58434	749	750											
												A58435	750	751											
					762.10	773.50	Pelite - This rock is medium gray in color and thinly banded. The grain size is fine-grained. The rock is composed of quartz, sericite, biotite and minor feldspar. & to C.A. 70°					A58436	756	757											
												A58437	757	758											
												A58438	758	759											
												A58439	759	760											
												A58440	760	761											
												A58441	761	762											
												A58442	762	763											
												A58443	763	764											
												A58444	764	765											

R. A. Campbell

DRILL HOLE GEOLOGIC LOG

PROJECT White River (H-8)

TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND	HOLE LOCATION WITH RESPECT TO CLAIMS	LOCATION		AZIM.		DIP				
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	FROM	TO	DESCRIPTION	VISUAL ESTIMATE		SAMPLE		ASSAY		PPB's	
				TO	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU gms/mt			
				773.50	782.70	Felsic Volcanic Rock - This rock is white in color and thickly banded. The grain size is medium-grained. The rock is composed of quartz, feldspar, sericite, carbonate, minor tourmaline, pyrite (5%), perthite (10%), epidote, and garnet.			A58465	773	774			
									A58466	774	775			
									A58467	775	776			
									A58468	776	777			
									A58469	777	778			
				782.70	790.00	Pelite Δ to C.A. 70° - This rock is medium gray in color and thinly banded. The grain size is medium-grained. The rock is composed of quartz, sericite, biotite, minor feldspar and pyrite (2%).			A58470	778	779			
									A58471	779	780			
									A58472	780	781			
									A58473	781	782			
									A58474	782	783			
				790.00	835.60	Chlorite, Sericite, Biotite schist - This rock is dark gray in color and highly schistose. The grain size is medium to coarse-grained. The rock is composed of biotite, sericite, quartz, chlorite, lesser garnet, staurolite, sillmanite and kyanite. Δ to C.A. 65°.								
				835.60	836.50	Ironstone (Magnetite-bands) - This rock is greenish blue in color and thickly banded. The grain size is fine to medium-grained. The rock is composed of amphibole, quartz, feldspar and magnetite (15%) Δ to C.A. 70°.								
				836.50	842.70	Garnet, Biotite Schist - This rock is dark gray in color and highly schistose. The grain size is medium to coarse-grained. The rock is composed of biotite, quartz, sericite and garnet (20%) Δ to C.A. 70°.								

R.A. Campbell

DRILL HOLE GEOLOGIC LOG

PROJECT White River (H-8)

TYPE OF HOLE D.D.H.

R.D.H.

P.D.H.

DATE _____

CORE				LEGEND	HOLE LOCATION WITH RESPECT TO CLAIMS	LOCATION _____ AZIM. _____ DIP _____										
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	LEGEND			COLLAR: LATITUDE _____ DEPARTURE _____									
				FROM	TO	DESCRIPTION	ELEVATION: COLLAR _____ BOTTOM _____									
TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE		SAMPLE			ASSAY							
				%C	%F	%B	%M	%P	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU gms mt
				842.70	864.90	Biotite-rich Graywacke - This rock is medium gray in color and thickly banded. The grain size is medium-grained. The rock is composed of biotite, quartz, feldspar, and minor garnet. \downarrow to C.A. 70°										
				864.90	864.90	END of Hole										

R.A. Campbell

Diamond Drill Log Summary

Hole # : H-10-1

0-4.00 m. Overburden

4.00-37.61 m. Intermediate to Felsic Intrusive Rock (Cedar Lake Pluton)

37.61-52.18 m. Graywacke Sandstone

52.18-62.67 m. Felsic Volcanic Rock

52.18-94.00 m. Sphalerite occurs in fractures and veinlets in trace amounts

62.67-81.00 m. Pelite

81.00-86.81 m. Felsic Volcanic Rock

86.81-107.60 m. Pelite

107.60-115.60 m. Felsic Intrusive Rock

115.60-169.62 m. Chlorite, Sericite, Biotite Schist w/ garnet and Kyanite

169.62-190.40 m. Diabase Dike

190.40-282.50 m. Chlorite, Sericite, Biotite Schist

John

DRILL HOLE


H-10-1

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT WHITE RIVER PROPERTY H-10 TARGET RUST LAKE ZINC ANOMALY

Core Size BQ Date Started Sept. 1, 1987 Line L41E Northing 282.5m
Drilled by ADVANCE Date Completed Sept. 5, 1987 Station 11775N Easting
Surveyed by WES Date Logged Sept. 6, 1987 Unit of Measurement Metric Elevation
Logged by WES Line Grid Azm. NS Survey Grid Azimuth NS Total Depth 282.5m

Table with columns: FLAG, FROM, TO, REC% MIX%, ROCK, ET, T, R-F MINERALS, TYPIFYING MATERIAL, COL, GRN SIZE, CST MOR, TEXTURES, XL MP, FC, CO, SIDP, S2DP. Includes handwritten data for various rock samples and descriptions like 'Feldspathic quartzite', 'Felsic volcanic', and 'Chlorite schist'.



Diamond Drill Log Summary

Hole # : H-10-2

0 - 4.50 m. Overburden

4.50 - 12.70 m. Talc, Actinolite, Chlorite Schist

12.70 - 57.80 m. Intermediate to Felsic Intrusive Rock (Cedar Lake Pluton)

57.80 - 63.57 m. Chlorite Schist

63.57 - 67.25 m. Intermediate to Felsic Intrusive Rock (Cedar Lake Pluton)

67.25 - 69.40 m. Chlorite Schist

69.40 - 77.50 m. Intermediate to Felsic Intrusive Rock (Cedar Lake Pluton)

77.50 - 83.20 m. Chlorite Schist

83.20 - 176.50 m. Graywacke Sandstone

176.50 - 182.07 m. Felsic Intrusive Rock

182.07 - 211.30 m. Graywacke Sandstone

211.30 - 221.40 m. Felsic Volcanic Rock

221.40 - 284.50 m. Sphalerite occurs in fractures and veinlets in trace amounts.

D. M.

21.40-253.80 m. Pelite

53.80-255.80 m. Felsic Volcanic Rock

55.80-267.72 m. Graywacke Sandstone

67.72-269.22 m. Felsic Volcanic Rock

69.22-279.44 m. Pelite

79.44-281.28 m. Graywacke Sandstone

81.28-284.50 m. Felsic Volcanic Rock

84.50-294.10 m. Graywacke Sandstone

D. H. H.

DRILL HOLE

H-10-2

LAC MINERALS LTD.

GEOLOGICAL ENCODING FORM

Page 1 of 4

PROJECT

WHITE RIVER

PROPERTY H-10

TARGET Rust Lake Zinc Anomaly

Core Size BQ
 Drilled by ADVANCE
 Surveyed by WES
 Logged by WES

Date Started Sept. 2, 1987
 Date Completed Sept. 7, 1987
 Date Logged Sept 4, 1987
 Line Grid Azm. N-S

Line 43E
 Station 13400N
 Unit of Measurement Metric
 Survey Grid Azimuth N-S

Northing
 Easting
 Elevation
 Total Depth 294.1m

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS					TYPIFYING MATERIAL					COL	GRN SIZE			CST MOR			TEXTURES					XL	MP	FC	CO	SIDP	S2DP			
			Ms	Bi	To	Ky	Go	St	Ep	Qz	Oa	Cb	Ba	Cl	Cd	Kp	Hm	Mg	Po	As	Py	Sb	Pb	Mo	Au													
			REMARKS																																			
					CASC	U																																
	0	4.5			MFSH	U		Cl	Ax	Tc	Cb	Mg			4G	3	4	5			Fo	Sc														FD 20	SC 20	
	4.5	12.7																																				
			Cl-Ax-Tc sch. Altered amphibolite in north extension of the Duck Lake Fault Intense strain at 12.7m																																			
					FLIN	U		Fx	Qz	Bi	Ms				5A	3	4	5			Ms																	
	12.7	31.20																																				
			Cedar Lake Pluton. Red staining along fractures. Intermittent epidote filled fractures																																			
					5	PELT	S		Bi	Fx	Qz	Cb			3A																							
	31.20	32.06																																				
			Biotite schist																																			
					FLIN	m		Fx	Qz	Bi	Ms				5A	3	4	5			Ms	Br																
	32.06	57.8																																				
			Cedar Lake Pluton																																			
					MFSH	U		Cl			Py	Mg			2G	3	4	5			Sc	BR															ESD	
	57.8	63.57																																				
			Chlorite schist. Schistosity very contorted																																			
					5	FLIN	S																															
	57.80	63.57																																				
			CEDAR LAKE PLUTON																																			
					FLIN	U		Fx	Qz	Bi					5A	3	4	5			Ms	BR																
	63.57	67.25																																				
			FRACTURED Cedar Lake Pluton																																			
					SCHS	U		Cl	Qz		Cb				5G	3	4	5			Sc	BR																
	67.25	79.40																																				
			Brecciated. Schistosity is very contorted. Possibly altered wacke.																																			
					FLIN	U		Fx	Qz	Bi					5A	3	4	5			Ms	BR																
	79.40	77.50																																				
			Cedar Lake Pluton + fractures containing small pieces of cl																																			

DRILL HOLE

H-10-2

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 2 of 4

PROJECT

White River

PROPERTY H-10

TARGET Peest Lake Zn Anomaly

Ditch

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR	TEXTURES			XLMP	FC	CO	SIDP	S2DP	
			Ms	Bi				To	Ky	Ga	St	Ep	Qz		Oe	Cb		Ba	Cl	Cd						Kf
			REMARKS																							
					MPSH U			Cl			Py	Cb						SC	BR						SC35	BR
	77.50	83.20	Chlorite-talc schist with prominent pyrite cubes.																							
					SAND U			Qz	Fx		Cl			6.6A				BN								KV.30
	83.20	123	Feldspathic quartzite which is variably chloritized. Bedding is contorted. Numerous 4cm thick quartzite lenses with Qz veins (90m)																							
					40% V.S.#S S			Cl			Cb	Py		4G				SC	BR							SC 20
	83.20	123	Chlorite schist lenses in the above sandstone																							
					SAND U			Fx	Qz	Bi	Cl			5A				BN								BN
	123	154.34	Feldspathic wacke. Coarse pyrite in fractured zones. Porphyro Cl and Cb in + fractures begins at 140m.																							
					30% FELT S			Bi	Fx	Ga				4A				SC								SC 30
	123	154.34	Biotite-garnet schist less garnet after 135m.																							
					SAND U			Qz	Fx	Bi				6A	23	3		BN								BN 20
	154.34	166.1	Feldspathic quartzite. Very hard and siliceous.																							
					20% PELT S			Bi						4A	34	4		SC								SC 3
	154.34	166.1	Biotite schist																							
					SAND U			Qz	Fx	Bi	Ax	B5		6A	34	4		BN								BN 20
	166.1	176.5	Feldspathic quartzite with amphibole-bearing bands																							
					FLIN U			Fx	Qz	Ax	Bi	5		5R	34	305		MS	PP							
	176.5	182.07	Feldspar-whole quartzite. Contacts are 20° (upper) and 40° off of the core axis.																							
					SAND U			Qz	Kx	Bi	Cb	5	Ax	5A	34	4		BN								BN 20
	182.07	211.30	Feldspathic quartzite. Disseminated carbonate where lots of amphibole and epidote bands. Decimetre-scale bedded intervals.																							
					10% FLIN S			Fx	Qz	Ax	Bi	5		5R	34	305		MS	PP							
	182.07	211.20																								

DRILL HOLE

H-10-2

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

WHITE RIVER

PROPERTY H-10

TARGET RUST LAKE ZN ANOMALY

Dive

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES				XLMP	FC	CO	S1DP	S2DP			
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kfs	Hm	Mg	Po	As	Py	Sb	Rg	Mo	Au					
			REMARKS																											
					FLYL	U			Qz	Fx	MS	HXB	Si		7A	34	35		BN							BN	90			
											I	3						Kfs							D	TR		D	TR	
	281.28	284.5			False volcanic. Contacted basaltic. Abundant sericite.																									
					SAND	IN			Qz	Fx	MS	5	RS		5A	34	20	5	BN								BN	60		
											L	2																		
	284.5	294.1	Foliated quartzite with prominent amphibole-bearing bands. No schistosity recognized.																											
	294.1		END OF HOLE																											

50
4
5

DIAMOND DRILL DOWN-HOLE SURVEY DATA ENCODING FORM

DRILL HOLE 4-10-2

TOTAL DEPTH 294.1m

SURVEYED BY WES

LOCATION	AZ.	DIP	SPERRY SUN	TROP	ACID	OTHER	REMARKS
Collar	180°	-45°		—	—		
91.5m	—	-44°			✓		
100m	199°	-45°		✓			
198m	—	-45°			✓		
200m	201°	-45°		✓			
292.6m	206°	-47°		✓			

WES

DRILL HOLE

I-8-10

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY I-8

TARGET Egg Lake Anomaly

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	S1DP	S2DP	
			Ms	Bi				To	Ky	Ga	St	Ep	Qz		Oe	Cb	Ba	Cl	Cd	Kf	Hm						Mg
			REMARKS																								
	96.17	96.21				M						AXB															
	108.83	113.39			MFVL	U			Ax	Fx	BI			3G	33	3		BN	FD						BN06	FD06	
			Mafic fine-grained tuff																								
	113.39	131.09			SAND	U			QZ	Fx	BI	Ax 10		HGA	34405			BN	FD						BN06	FD06	
	131.09	137.13			PELT	U			QZ	Fx		Ms 5		GA	13103			BN	FD			GAS 2			BN05	FD05	
			Well Banded PELT																								
	137.13	151.70			SAND	U			QZ	Fx	BI			PA	34405			BN	FD						BN05	FD05	
	137.13	139.30				M																					
			D:2																								
	151.70	170.00			PELT	U			QZ	Fx	BI			PA	13103			BN	FD						BN05	FD05	
			Well Banded PELT																								
	158.87	170.00				M						Ms 10															
			L:10																								
	161.50	167.21				M																					
			D:5																								
	168.73	169.26			100 GOUG	S																			GO	FT	
	170.00	189.11			SAND	U			QZ	Fx	BI			PA	34405			BN	FD						BN05	FD05	

DRILL HOLE

I-8-10

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY I-8

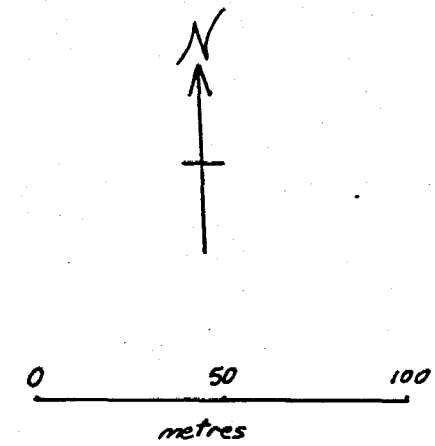
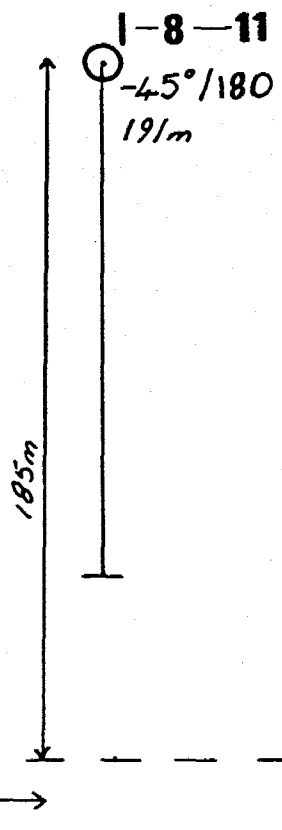
TARGET Egg Lake Anomaly

DLU

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	S1DP	S2DP					
			Ms	Bi				To	Ky	Ga	St	Ep	Qz		Oe	Cb	Ba	Cl	Cd	Kf	Hm						Mg	Po	As	Py	Sb
			REMARKS																												
	279.47	282.00				M																									
						S	.5	D	1																						
	282.00	288.19				M																									
	288.93	290.66		100	FLVL	S				QZ	FX				7A	3450	4				BN	F0					BN05	F005			
	290.97	297.11				M																									
	294.30	295.35				M																									
	295.35	296.53				M																									
	297.43	302.59		80	FLVL	S				QZ	FX				7A	3450	4				BN	F0						BN05	F005		
	302.59	307.42				M																									
	308.60	317.64			INVL	U				QZ	FX	AX	Cb	5							BN	F0							BN20	F020	
	317.64	321.00			FLVL	U				QZ	FX				7A						BN	F0								BN20	F020
	321.00	326.60			PELT	U				QZ	FX	BI	Ms	10							6A	1310	3							BN06	F006

Felsic Volcanic intercalated w/ PELT

SSM
607730



[Handwritten signature]

Drawing <i>Drill location map I-8-11</i>	
Dwn. By <i>D.W.A.</i>	Scale <i>1:2000</i>
Date <i>28 May 1991</i>	Dwng. No. <i>1</i>



DRILL HOLE

I-8-11

LAC MINERALS LTD.

GEOLOGICAL ENCODING FORM

Page 1 of 3

PROJECT

White River

PROPERTY

I-8

TARGET Egg Lake Anomaly

Core Size BQ Date Started Aug. 19, 1986 Line L9+75E Northing 766
 Drilled by Bradley Bro. Date Completed Aug. 22, 1986 Station 3+75N Easting _____
 Surveyed by RAC Date Logged Aug. 25, 1986 Unit of Measurement Metric Elevation _____
 Logged by RAC Line Grid Azm. _____ Survey Grid Azimuth _____ Total Depth 192m

FLAG	FROM	TO	REC% MIX% ROCK ET T			R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE CST MOR			TEXTURES			XL MP	FC CO	S1 DP	S2 DP	
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe		Cb	Ba	Cl	Cd	Kf	Hm					Mg
			REMARKS																				
	0	16			CASG	U																	
	16	22.78			SAND	U		QZ	FX	BI	AX 5		46A	34404		BN	FB					BN 03	FB 03
	22.78	27.04			MFVL	U		FX	AX				3G	24404		BN	FB					BN 03	FB 03
			Mafic fine-grained tuff																				
	27.04	35.30			SAND	U		QZ	FX	BI			4A	34404		BN	FB					BN 03	FB 03
	27.78	28.11			BREC	S					Cb 10						BR						
	35.30	59.80			PELT	U		QZ	FX				6A	13103		BN	FB					BN 04	FB 04
	35.30	59.80				M																	
			Abundant salt + Pepper bands and abundant silicification and Bleaching																				
	59.80	68.66			SAND	U		QZ	FX	BI			PA	24404		BN	FB					BN 04	FB 04
	68.66	85.77			PELT	U		QZ	FX				5A	13103		BN	FB					BN 04	FB 04
	70.81	71.48		100	FXPP	S		QZ	FX		FP 10		6A	23 4		Ms						FP S #	

DRILL HOLE

I-8-12

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 2 of 4

PROJECT

White River

PROPERTY I-8

TARGET Egg Lake Anomaly

JM

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE	CST MOR	TEXTURES			XLMP	FC	CO	S1DP	S2DP		
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg	Mo	Au	
			REMARKS																							
	161.48	162.38			BREC	S							Cb 10						BR							
													# 10													
	176.20	185.28				M																				
							S	1	D	2																
	181.60	184.83				M																				
										S	3															
	185.28	188.49			PELT	U			QZ	FX				6A	13	103			BN	FD				BN04	FD04	
	188.49	200.72			SAND	U			QZ	FX	BI			PA	34	404			BN	FD				BN04	FD04	
			40		MEVL	S			QZ	FX	AX			4GA	34	404			BN	FD				BN04	FD04	
	193.00	200.72																								
	200.72	204.66			MEVL	U			AX	FX				3G	34	404			BN	FD				BN05	FD05	
	204.66	267.83			PELT	U			QZ	FX				6A	13	103			BN	FD				BN05	FD05	
	209.50	211.00	100		BREC	S							Cb 5	C	5				BR							
													# 15	# 5	# 5											
	204.66	230.50				M																				
	225.52	226.84	100		ININ	S			FX	AX	QZ			5G	34	505								AXS5		

Abundant salt and pepper bands (AX, FX, QZ and Cb) possibly INVL or Alteration?

DRILL HOLE

I-8-13

LAC MINERALS LTD.

GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY I-8

TARGET Egg Lake Anomaly

Core Size

BQ

Date Started

Aug. 28, 1986

Line

L2+25W

Northing

916

Drilled by

Bradley Bro.

Date Completed

Sept 8, 1986

Station

B+00N

Easting

Surveyed by

RAC

Date Logged

Sept. 4, 1986

Unit of Measurement

Metric

Elevation

Logged by

RAC

Line Grid Azm.

180°

Survey Grid Azimuth

180°

Total Depth

386m

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS				TYPIFYING MATERIAL				COL	GRN SIZE	CST MOR	TEXTURES				XLMP	FC	CO	S1DP	S2DP	
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg	Mo	Au			
			REMARKS																									
	0	4.00			CASG	U																						
	4.00	120.35			SAND	U		QZ	FX	BI	AX	S		46A	34404			BN	FD							BN08	FD08	
	6.74	7.24	100		FXPP	S		QZ	FX		FP	S		6A	34405												FP55	
	25.42	25.64	100		FXPP	S		QZ	FX		FP	S		6A	34405												FP55	
	34.36	34.75	100		FXPP	S		QZ	FX		FP	S		6A	34405												FP55	
	120.35	125.99			MFVL	U		FX	AX					3G	34404			BN	FD							BN06	FD06	
	125.99	206.00			SAND	U		QZ	FX	BI	AX	S		46A	34404			BN	FD							BN06	FD06	
	140.00	146.00	60		PELT	S		QZ	FX					5A	13103			BN	FD							BN06	FD06	
	146.07	152.92				M																						
			60		PELT	S		QZ	FX					5A	13103			BN	FD							BN06	FD06	

LAC MINERALS LTD.

DIAMOND DRILL DOWN-HOLE SURVEY DATA ENCODING FORM

DRILL HOLE I-8-14

TOTAL DEPTH 608 m

SURVEYED BY RAC

LOCATION	AZ.	DIP	SPERRY, SUN	TROP	ACID	OTHER	REMARKS
Collar	180°	-80°					
50m		-79°			✓		
100m		-79°			✓		
100m	350	-80		✓			
150m		-79°			✓		
200m		-78°			✓		
200m	350°	-79°		✓			
250m		-77°			✓		
300m		-75°			✓		
300m	353°	-76°		✓			
350m		-73°			✓		
400m		-70°			✓		
400m	347°	-70°		✓			
450m		-66°			✓		
500m		-65°			✓		
500m	358°	-64°		✓			
550m		-63°			✓		
600m		-62°			✓		
600m	359°	-63°		✓			

[Handwritten Signature]

DRILL HOLE

I-8-15

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

I-8

TARGET Egg Lake Anomaly

[Signature]

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES				XLMP	FC	CO	SIDP	S2DP
								Ms	Bi	To	Ky	Ga	St		Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf					
	111.04	112.06		20	SAND	S			QZ	FX	BI			3AG	34	4			BN	FQ					BN 60	FQ 60	
	115.91	117.35		100	PEGM	S			QZ	FX	BI			BR	56	6			MS								
	117.35	121.56		25	SAND	S			QZ	FX	BI			3AG	34	4			BN	FQ					BN 60	FQ 60	
	125.96	289.31			SAND	U			QZ	FX	BI			3AG	34	4			BN	FQ					BN 45	FQ 45	
	130.25	131.68		100	FLIN	S			QZ	FX	BI			6AW	34	5			MS	EQ							
	151.98	164.04		8	FXPP	S			QZ	FX		FP20		5A	44	5									FP 55		
	182.07	182.57		100	PELT	S			QZ	FX	BI			6A	23	3			BN	FQ					BN 35	FQ 35	
	221.24	224.09																									
							M																				
	226.54	245.97																									
	245.00	258.30																									
	248.47	249.98					M																				

QZ - Carb - Amphibole bands (alteration bands)

Bleaching and silicification

DRILL HOLE

I-8-15

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 4 of 5

PROJECT

White River

PROPERTY I-8

TARGET Egg Lake Anomaly

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS					TYPIFYING MATERIAL				COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	S1DP	S2DP	
			Ms	Bi				To	Ky	Go	St	Ep	Oz	Oe	Cb	Ba		Cl	Cd	Kf	Hm	Mg	Po	As						Py
			REMARKS																											
	370.94	378.46			MEVL	U			QZ	FX	AX					5G	34	4			BN	FD						BN25	FD25	
	378.46	384.28			MEVL	U			AX	FX					3A	34	4			BN	FD						BN25	FD25		
	379.22	379.40		100	FXPP	S			QZ	FX		FP20			5A	44	5			MS							FPS5		MS	
	384.28	432.37		L:5	SAND	U			QZ	FX	BI				PA	34	4			BN	FD						BN25	FD25		
	384.28	413.61																												
	384.28	432.37		L:10	PELT	S			QZ	FX	BI				5A	23	3			BN	FD						BN25	FD25		
	413.61	419.13																												
	432.37	465.24		L:10	PELT	U			QZ	FX	BI				5A	23	3			BN	FD						BN25	FD25		
	432.37	444.68		L:25																										
	432.37	465.24		L:5	20 SAND	S			QZ	FX	BI				PA	34	4			BN	FD						BN25	FD25		
	434.70	435.20			100	FXPP	S		QZ	FX		FP20			5A	44	5			MS							FPS5		MS	

DRILL HOLE

I-8-15

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

I-8

TARGET Egg Lake Anomaly

[Signature]

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS						TYPIFYING MATERIAL				COL	GRN SIZE		CST MOR		TEXTURES						XLMP	FG	CO	S1DP	S2DP									
								Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb		Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Ss						Rg	Mo	Au						
			REMARKS																																							
						M										AX B 20																										
	444.68	451.58				M										AX B 1																										
	451.58	461.38																																								
	457.70	459.24			10	FLVL	S																																			
	461.89	463.50					M																																			
	465.24	471.24				INVL	U			QZ	FX	AX					SP	34	4		BN	FQ																		BN 25	FQ 25	
	471.24	474.70				FLVL	U			QZ	FX	MS	AX 10	CB 1		7A	34	4		BN	FQ																			BN 25	FQ 25	
	474.70	483.72				PELT	U			QZ	FX	BI	MS 15	CI 1	Ky 5	GA	23	3		BN	FQ																			BN 25	FQ 25	
	483.72	500.00				FLVL	U			QZ	FX	MS	CB 5			7A	34	4		BN	FQ																				BN 25	FQ 25
	500.00	550.31				SCHS	U			QZ	BI	MS	CI	Ky	GA	4A	34	4		SC	FQ																				SC 25	FQ 25
	550.31	553.82				IRFM	U			QZ	BI		AX 15	Mg	GA	BA	34	4		SC	FQ																				SC 25	FQ 25

LAC MINERALS LTD.

DIAMOND DRILL DOWN-HOLE SURVEY DATA ENCODING FORM

DRILL HOLE

I-8-15

TOTAL DEPTH

553.82 m

SURVEYED BY

John Benson

LOCATION	AZ.	DIP	SPERRY SUN	TROP	ACID	OTHER	REMARKS
Collar	-	-90°					
100 m		-90°			✓		
152 m	180°	-87°		✓			
200 m		-88°			✓		
252 m	180°	-82°		✓			
310 m		-81°			✓		
352 m	182°	-70		✓			
417 m		-70°			✓		
452 m	184°	-64°		✓			
514 m		-64°			✓		

JMB

Diamond Drill Log Summary

Hole # : I-8-16

0 - 1.82 m. Overburden

1.82 - 142.99 m. Intermediate to Felsic Intrusive Rock (Cedar Lake Pluton)

142.99 - 236.65 m. Graywacke Sandstone

236.65 - 240.95 m. Pelite

240.95 - 298.40 m. Graywacke Sandstone

298.40 - 304.22 m. Mafic Volcanic Rock

304.22 - 395.94 m. Graywacke Sandstone

395.94 - 402.49 m. Mafic Volcanic Rock

402.49 - 434.00 m. Pelite

434.00 - 449.23 m. Graywacke Sandstone

449.23 - 456.46 m. Pelite

456.46 - 477.76 m. Graywacke Sandstone

Blair

470.38 - 477.76 m.

Upper Anomalous Zone

The zone is characterized by an abundance of sericite (20%), Carbonate (20%) and py and po (2%).

477.76 - 506.06 m.

Pelite

506.06 - 518.00 m.

Intermediate to felsic Volcanic Rock w/ py and po (2%)

518.00 - 525.68 m.

Pelite

525.68 - 541.33 m.

Quartz, sericite schist w/ py and po (1%)

541.33 - 544.68 m.

Chlorite, Sericite, Biotite Schist w/ garnet, Kyanite, and staurolite

Bill

DRILL HOLE

I-8-16

LAC MINERALS LTD.

GEOLOGICAL ENCODING FORM

Page 1 of 6

PROJECT

White River

PROPERTY

I-8

TARGET

Egg Lake Anomaly

Core Size

BQ

Date Started

Aug 9, 1987

Line

10+00E

Northing

0110

Drilled by

Advance

Date Completed

Aug 18, 1987

Station

8+00N

Easting

Surveyed by

RAC

Date Logged

Aug 14, 1987

Unit of Measurement

Metric

Elevation

Logged by

RAC

Line Grid Azm.

N-S

Survey Grid Azimuth

180°

Total Depth

544.68

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS							COL	GRN SIZE			EST	MOR	TEXTURES							XL	MP	FC	CO	SIDP	S2DP
			Ms	Bi				To	Ky	Ga	St	Ep	Qz	Oa		Cb	Ba	Cl			Cd	Kf	Hm	Mg	Po	As	Py						
			REMARKS																														
			CASG U																														
	0	1.82																															
	1.82	142.99	FLIN U QZ FX BI AX Mg 6AN 44 5 MS EQ D11																														
	2.81	31.25	10 PEGM S QZ FX 8SR 55 5 MS																														
	35.74	37.32	80 PEGM S QZ FX 8SR 55 5 MS																														
	38.88	38.98	100 PEGM S QZ FX 8SR 55 5 MS																														
	38.98	39.85	M 4A 33 3																														
	40.72	41.11	100 PEGM S QZ FX 8SR 55 5 MS																														
	45.11	45.63	95 PEGM S QZ FX 8SR 55 5 MS																														
	46.00	57.00	M 8SR																														
	58.54	66.08	25 PEGM S QZ FX 8SR 55 5 MS																														

DRILL HOLE

I-8-6

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 2 of 6

PROJECT

White River

PROPERTY I-8

TARGET Egg Lake Anomaly

D. M. K.

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XL MP	FC	CO	S1 DP	S2 DP		
			Ms	Bi				To	Ky	Ga	St	Ep	Qz		Oe	Cb	Ba	Cl	Cd	Kf	Hm						Mg	Po
			REMARKS																									
	84.64	87.72		95	PEGM	S			QZ	FX					25R	55	5			MS								
	142.99	236.65			SAND	U			QZ	FX	BI				3A	33	4			BN	FQ					BN 40	FQ 40	
	145.67	146.56		100	FLIN	S			QZ	FX	BI	Ax	Mg		6AW	44	5			MS	EQ							
	147.98	149.70		100	FLIN	S			QZ	FX	BI	Ax	Mg		6AW	44	5			MS	EQ							
	164.40	164.99		100	FLIN	S			QZ	FX	BI				6AW	44	5			MS	EQ							
	176.00	176.30		100	FLIN	S			QZ	FX	BI				6AW	44	5			MS	EQ							
	179.29	180.29		100	FLIN	S			QZ	FX	BI				6AW	44	5			MS	EQ							
	183.96	184.42		100	EXPP	S			QZ	FX			FP 20		5A	33	5			MS					FPS	5		
	185.00	225.23				M							Ax 10		3GA													
	225.23	227.48		100	EXPP	S			QZ	FX			FP 20		5A	33	5			MS					FPS	5		
	236.65	240.95			DELTA	U			QZ	FX	BI				5A	23	3			BN	FQ				BN 35	FQ 35		

DRILL HOLE

I-8-16

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

I-8

TARGET

Egg Lake Anomaly

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE	CST MOR	TEXTURES			XLMP	FC	CO	S1DP	S2DP								
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg	Mo	Au							
			REMARKS																													
	240.95	298.40			SAND	U		QZ	FX	BI				3A	33	4	BN	FD					BN35	FD35								
						M																										
	243.63	269.88						QZ - Carb - Ep. Alteration bands																								
	298.40	304.22			MEVL	U		AX	FX	QZ				3G	34	4	BN	FD					BN35	FD35								
	304.22	325.94			SAND	U		QZ	FX	BI	AX	5		3GA	33	4	BN	FD					BN35	FD35								
						M								PA																		
	324.50	379.70																														
	324.50	329.80			25 PELT	S		QZ	FX	BI				PA	23	3	BN	FD					BN35	FD35								
						M																										
	325.00	340.40					L1			D1																						
						M																										
	363.70	370.00					L1			D1																						
	370.00	379.70			40 PELT	S		QZ	FX	BI				PA	23	3	BN	FD					BN35	FD35								
							L2			D3																						
						M																										
	379.70	395.94																														
	395.94	402.49			MEVL	U		AX	FX	QZ				3G	34	4	BN	FD					BN35	FD35								

LAC MINERALS LTD.

DIAMOND DRILL DOWN-HOLE SURVEY DATA ENCODING FORM

 DRILL HOLE I-8-16

 TOTAL DEPTH 5.44.68 m

 SURVEYED BY RAC

LOCATION	AZ.	DIP	SPERRY SUN	TROP	ACID	OTHER	REMARKS
Collar	—	-90°					
100 m		-88°			✓		
100 m	173°	-89°		✓	✓		
200 m		-86°			✓		
200 m	184°	-86°		✓	✓		
300 m		-80°			✓		
300 m	180°	-81°		✓	✓		
400 m		-74°			✓		
400 m	179°	-75°		✓	✓		
500 m		-64°			✓		
500 m	183°	-67°		✓	✓		
543 m	185°	-65°		✓			

DRILL HOLE

I-9-3

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 2 of 4

PROJECT

White River

PROPERTY

I-9

TARGET Egg Lake Anomaly

Phle

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS						TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	S1DP	S2DP
			Ms	Bi				To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba		Cl	Cd	Kf	Hm	Mg	Po	As					
	134.00	153.73			SAND	U		QZ	FX	BT					PA	24	40	5			BN	F0					BN 08	F00	
	140.52	153.73		40	PELT	S		QZ	FX						SA	13	10	3			BN	F0							
	140.52	153.73				M									SP						BN	SP							
	153.73	161.49			MFVL	U		Ax	FX						3G	33	3				BN	F0					BN 09	F00	
	161.49	266.17			PELT	U		QZ	FX						6A	13	10	3			BN	F0					BN 09	F00	
	161.49	164.42		60	SAND	S		QZ	FX	BT					PA	24	40	5			BN	F0					BN 09	F00	
	177.18	226.00				M									SP	10					SP	BN							
	211	226.00				M																							
	226.00	230.59		100	FXPP	S		QZ	FX	BT	FP	S				25	10	5			PP						FP S S		
	230.59	241.37				M									SP	15					SP	BN							
	241.88	266.17				M									AX	5	MS	10			PA						BN 09	F00	

Salt and Pepper bands containing QZ, Ax and carb.

Granwacke sandstone is intercalated w/ lesser amount of Pelite

Salt and Pepper band < 30m thick, and bleached and silicified zones are abundant

Looks like a crustal Tuff, contact are gradational w/ Pelit

Abundant Silicification and Bleaching of the Pelit and abundant Salt and Pepper bands

well bedded w/ abundant quartz. Micaevite and siliceous bands

DRILL HOLE

I-9-3

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 3 of 4

PROJECT

White River

PROPERTY

I-9

TARGET

Egg Lake Anomaly

Dillon

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE			CST MOR			TEXTURES					XLMP	FC	CO	S1DP	S2DP
								Ms	Bi	To	Ky	Ga	St		Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po					
			REMARKS																											
	250.00	253.00																												
	266.7	269.03																												
	267.00	268.41																												
	269.03	298.78																												
	269.09	285.72																												
	286.79	289.58																												
	290.66	293.75																												
	293.87	298.78																												
	298.78	313.19																												
	313.19	316.44																												
	316.44	328.16																												

Well bonded PELT

DRILL HOLE

I-9-4

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 3 of 4

PROJECT

White River

PROPERTY I-9

TARGET Egg Lake Anomaly

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE	CST MOR	TEXTURES			XLMP	FC	CO	S1DP	S2DP								
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg	Mo	Au							
REMARKS																																
	259.16	263.13		30	FLVL	S			QZ	FX		MS	15	QE	2		7A	34404		BN	FB				BN	12	FB	12				
	263.36	269.55					M					AX	B	5																		
	270.41	271.15		100	LAMP	U			FX	BI		CB	15				N	45505		MS							DY					
	271.15	279.69			PELT	U			QZ	FX	BI	MS	5				PA	13104		BN	FB				BN	12	FB	12				
	271.44	278.91					M					SP	5																			
	271.93	273.11		100	FLVL	S			QZ	FX							7A	34404		BN	FB						BN	12	FB	12		
	279.69	295.42			INVL	U			QZ	FX	AX	FP	1				SP	34404		BN	FB		FP	1		BN	12	FB	12			
	295.42	296.90			FPFV	S			QZ	FX							BG	333		BN	FB	PP				BN	12	FB	12			
	296.90	307.24			FLVL	U			QZ	FX							7A	333		BN	FB			D	1		D	1.5	BN	12	FB	12
	307.24	309.94			PELT	U			QZ	FX	BI	MS	5				PA	12103		BN	FB					BN	06	FB	06			
	309.94	312.46			MFVL	U			AX	FX	BI						3G	34404		BN	FB					BN	06	FB	06			

DRILL HOLE

I-9-5

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

I-9

TARGET Egg Lake Anomaly

Core Size BQ
 Drilled by Bradley Bro.
 Surveyed by RAC
 Logged by RAC

Date Started Aug. 16, 1986
 Date Completed Aug. 22, 1986
 Date Logged Aug 23, 1986
 Line Grid Azm. _____

Line L27+75E
 Station 8+50N
 Unit of Measurement Metric
 Survey Grid Azimuth _____

Northing
 Easting
 Elevation
 Total Depth 314m

FLAG	FROM	TO	REC% MIX%		ROCK		ET		T		R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XL	MP	FC	CO	SIDP	S2DP
			Ms	Bi	To	Ky	Go	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf		Hm	Mg	Po	As	Py	Sb	Fg						
			REMARKS																											
						CASG	U																							
	0	19																												
	19	121.53				SAND	U			QZ	FX	BI					4A	34404			BN	FD					BN 10	FD 10		
			Thickly banded Graywacke Sandstone																											
	30.10	30.37	100		BREC	S																							FT	
	52.31	52.40	100		BREC	S																							FT	
	70.49	85.68	10		LAMP	S	.38		FX	BI			Ep 5	Cb 1			3A	33	3			MS						DY		
	101.00	110.00	20		PFLT	S			QZ	FX							6A	13103			BN	FD					BN 10	FD 10		
	101.60	110.00					M																							
			Bleaching and silicification																											
	110.00	112.50					M																							
			Salt + Pepper bands 10cm thick.																											
	121.53	137.05			FLVL	U			QZ	FX			AL 5				6A	34404			BN	FD					BN 05	FD 05		
	121.53	176.83	20		SAND	S			QZ	FX	BI						PA	34404			BN	FD					BN 05	FD 05		

Diamond Drill Log Summary

Hole # : I-9-6

0-1.18m. Overburden

1.18-17.56m. Diabase Dike

17.56-42.19m. Graywacke Sandstone

42.19-157.58m. Diabase Dike

Orla

DRILL HOLE

I-9-6

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

I-9

TARGET Egg Lake Anomaly

Core Size BQ
 Drilled by Advance
 Surveyed by RAC
 Logged by RAC

Date Started Aug 18, 1987
 Date Completed Aug 21, 1987
 Date Logged Aug 20, 1987
 Line Grid Azm. 180°

Line L14+00E Northing *[Signature]*
 Station 6+00N Easting _____
 Unit of Measurement Metric Elevation _____
 Survey Grid Azimuth 180° Total Depth 157.58

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS					TYPIFYING MATERIAL					COL	GRN SIZE				CST MDR				TEXTURES				XL	MP	FC	CO	SIDP	S2DP
			Ms	Bi	To	Ky	Go	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Pt	Mo	Au											
			REMARKS																																	
	0	1.18			CASG	U																														
	1.18	17.56			DIAB	U			FX	PX	Mg	5			3AB	44	4				MS	EQ														
	17.56	42.19			SAND	U			QZ	FX	BT				3A	34	4				BN	FQ											BN 50	FQ 50		
	42.19	157.58			DIAB	U			FX	PX	Mg	5			3B	44	4				MS	EQ												CT 70		
	157.58	157.58			END OF Hole																															

Diamond Drill Log Summary

Hole #: I-9-7

0 - 14.60 m. Overburden

14.60 - 113.78 m. Graywacke Sandstone

113.78 - 127.18 m. Mafic Volcanic Rock

127.18 - 236.88 m. Graywacke Sandstone

236.88 - 240.20 m. Intermediate Volcanic Rock

240.20 - 274.44 m. Graywacke Sandstone

274.44 - 282.25 m. Pelite

282.25 - 295.00 m. Graywacke Sandstone

295.00 - 318.80 m. Pelite

318.80 - 346.84 m. Intermediate to Felsic Volcanic Rock (Egg Lake Horizon)
py and po (4%)

346.84 - 357.47 m. Pelite

357.47 - 360.36 m. Quartz, sericite schist w/ py and po (3%)

360.36 - 364.09 m. Pelite

[Signature]

364.09 - 365.97 m. Quartz, sericite schist w/ py and po (3%)

365.97 - 388.62 m. Chlorite, sericite, Biotite Schist w/ garnet,
Kyanite and Staurolite

Dhd

DRILL HOLE

I-9-7

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT White River

PROPERTY I-9

TARGET Egg Lake Anomaly

Core Size	<u>BQ</u>	Date Started	<u>Aug. 19, 1987</u>	Line	<u>L22+75E</u>	Northing	<u>Dike</u>
Drilled by	<u>Advance</u>	Date Completed	<u>Aug. 23, 1987</u>	Station	<u>8+00N</u>	Easting	
Surveyed by	<u>RAC</u>	Date Logged	<u>Aug. 21, 1987</u>	Unit of Measurement	<u>Metric</u>	Elevation	
Logged by	<u>RAC</u>	Line Grid Azm.	<u>180°</u>	Survey Grid Azimuth	<u>180°</u>	Total Depth	<u>38E.62 m.</u>

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS							TYPIFYING MATERIAL							COL	GRN SIZE				CST MOD				TEXTURES					XL	MP	FC	CO	SIDP	S2DP
			Ms	Bi				To	Ky	Ga	St	Ep	Qz	Os	Cb	Ba	Cl	Cd	Kf	Hm	Mg		Po	As	Py	Sb	Rj	Mo	Au												
			REMARKS																																						
			CASG U																																						
	0	14.60																																							
			SAND U QZ FX BI 4A 34 4 BN FQ BN45 FQ45																																						
	16.40	113.78																																							
			100 FLIN S QZ FX BI AX10 5A 44 5 MS EQ CT40																																						
	34.65	36.40																																							
			M																																						
	41.10	45.40	L 2 Kyanite in bands																																						
			25 PELT S QZ FX BI MS10 PA 23 3 BN FQ BN35 FQ 35																																						
	43.10	50.00	L 10																																						
			M																																						
	51.10	63.35	QZ - Carb - Ax alteration bands 5%																																						
			30 BREC S QZ Ax Cb Hm BR 33 3 BR																																						
	108.05	109.61	#80 #10 #2																																						
			MFVL U FX AX QZ BI20 3G 33 4 BN FQ BN30 FQ30																																						
	113.78	127.18	L 20																																						
			SAND U QZ FX BI 4A 33 4 BN FQ BN30 FQ30																																						
	127.18	236.88																																							
			60 PELT S QZ FX BI MS10 5A 23 3 BN FQ BN30 FQ30																																						
	159.32	170.30	L 70																																						

Diamond Drill Log Summary

Hole # : I-9-8

0 - 4.6m. Overburden

4.6 - 14.87m. Intermediate to Felsic Intrusive Rock (Cedar Lake Pluton)

14.87 - 159.69m. Graywacke Sandstone

159.69 - 163.30m. Intermediate to Felsic Intrusive Rock

163.30 - 183.86m. Graywacke Sandstone

183.86 - 192.54m. Mafic Volcanoclastic Rock

192.54 - 305.20m. Graywacke Sandstone

305.20 - 314.59m. Mafic Volcanic Rock

314.59 - 386.65m. Graywacke Sandstone

386.65 - 398.00m. Pelite

398.00 - 403.63m. Graywacke Sandstone

403.63 - 447.74m. Pelite

[Signature]

404.82 - 414.43 m. Upper Anomalous Zone

The zone consist of abundant sericite (15%), Carbonate (10%), and Laminated py and Po (2%) within a Pelitic rock.

447.74 - 467.05 m. Intermediate to Felsic Volcanic Rocks (Egg Lake Horizon)
py and Po (4%)

467.05 - 476.69 m. Pelite

476.69 - 480.92 m. Quartz, Sericite Schist w/ pyrite (2%)

480.92 - 495.75 m. Pelite

495.75 - 502.00 m. Chlorite, Sericite, Biotite Schist

DLK

DRILL HOLE

I-9-8

LAC MINERALS LTD.

GEOLOGICAL ENCODING FORM

Page 1 of 5

PROJECT

White River

PROPERTY

I-9

TARGET Egg Lake Anomaly

Core Size BQ Date Started Aug. 21, 1987 Line L16+00E Northing 844
 Drilled by ADVANCE Date Completed Aug. 23, 1987 Station 8+00N Easting _____
 Surveyed by RAE Date Logged Aug. 24, 1987 Unit of Measurement Metric Elevation _____
 Logged by RAE Line Grid Azm. 180° Survey Grid Azimuth 180° Total Depth 152 m

FLAG	FROM	TO	REC% MIX%		ROCK			T			R-F MINERALS						TYPIFYING MATERIAL						COL		GRN SIZE CST MOR						TEXTURES				XLMP		FC		SIDP		S2DP	
			Ms	Bi	To	Ky	Go	St	Ep	Qz	Oa	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Pg	Mo	Air																	
			REMARKS																																							
	0	4.6	CASG U																																							
	4.6	14.87	FLIN U QZ FX BI 6R 44 S MS EQ V 1 P 2																																							
	9.96	13.70	35 SAND S QZ FX BI 6GA 33 4 BN FQ BN40 FQ40																																							
	14.87	159.69	SAND U QZ FX BI AX S 3GA 33 4 BN FQ BN40 FQ40																																							
	29.78	30.21	100 FLIN S QZ FX BI 6A 44 S MS EQ CT35																																							
	41.17	42.32	90 QZ VN S QZ W 44 S MS VN																																							
	114.56	114.87	100 FX PP S QZ FX FP20 5A 34 S MS PP FPS5																																							
	116.16	117.00	M L S D 2																																							
	117.00	120.20	80 PELT S QZ FX BI MS 10 4A 23 3 BN FQ BN40 FQ40 L 10																																							
	144.90	145.40	M L 10 K 2																																							

DRILL HOLE

I-9-8

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 2 of 5

PROJECT

White River

PROPERTY I-9

TARGET Egg Lake Anomaly

DM

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES				XLMP	FC	CO	S1DP	S2DP
								St	Ep	Qz	Oe	Cb	Ba		Cl	Cd	Kf	Hm	Mg	Po	As	Py					
	159.69	163.30			FLIN U				QZ	FX	BI	AX 5		BR	4	4	5		MS	EQ							
	163.30	183.86			SAND U				QZ	FX	BI			3A	3	3	4		BN	FQ				BN 40	FD 40		
	183.86	192.54			MFVC U				AX	FX	QZ	BI 20		3G	3	3	4		BN	FQ				BN 35	FD 35		
	192.54	305.20			SAND U				QZ	FX	BI			3G	3	3	4		BN	FQ				BN 35	FD 35		
	230.38	240.27					M																				
	245.16	252.50					M																				
	254.90	268.00					M																				
	268.00	276.00			80 PELT S				QZ	FX	BI	MS 10		5A	2	3	3		BN	FQ				BN 35	FD 35		
	286.31	305.20			40 MFVC S				QZ	FX	AX	BT 20		3G	3	3	4		BN	FQ				BN 35	FD 35		
	305.20	314.59			MFVL U				AX	FX		BT 20		3G	3	3	4		BN	FQ				BN 25	FD 25		
	314.59	386.55			SAND U				QZ	FX	BI			4A	3	3	4		BN	FQ				BN 25	FD 25		

DRILL HOLE

I-9-8

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

I-9

TARGET

Egg Lake Horizon

D. DeLuca

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL				COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	SIDP	S2DP					
								Ms	Bi	To	Ky	Ga	St	Ep		Qz	Oe	Cb	Ba	Cl	Cd	Kf						Hm	Mg	Po	As	Py
				20	FLVL	S			QZ	FX		Cb			7A	33	3		BN	FX					BN25	FX25						
	470.48	473.48			FLVL	U			QZ	FX		Cb	MS10		7A	33	3		BN	FX					BN20	FX20						
	476.69	480.92		L10									J5																			
	478.15	480.58					M																									
								D10	Large Reddish-orange garnets																							
	480.92	495.75			PELT	U			QZ	FX	BI	MS20			5A	23	3		BN	FX					BN20	FX20						
	495.75	502.00			SCHS	U			QZ	BI	MS				4G	33	4															
	497.26	498.20					M					AXB100			3G																	
	500.56	502.00		100	EXPP	S	EXF		QZ	FX		FP10							PP	MS												
	502.00	502.00			END OF Hole																											

Diamond Drill Log Summary

Hole #: I-9-9

0 - 1.36 m. Overburden

1.36 - 15.19 m. Mafic Volcanoclastic Rock

15.19 - 24.50 m. Mafic Volcanic Rock

24.50 - 113.53 m. Graywacke Sandstone

113.53 - 117.95 m. Intermediate Volcanic Rock

117.95 - 140.63 m. Pelite

140.63 - 156.45 m. Graywacke Sandstone

156.45 - 178.19 m. Pelite

178.19 - 210.07 m. Intermediate to Felsic Volcanic Rock (Egg Lake Horizon)
py and po (3%)

210.07 - 225.15 m. Pelite

225.15 - 227.08 m. Quartz, Sericite Schist w/ py and po (2%)

2/11

DRILL HOLE

I-9-9

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 3 of 3

PROJECT

White River

PROPERTY I-9

TARGET Egg Lake Horizon

[Signature]

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	S1DP	S2DP	
			Ms	Bi				To	Ky	Ga	St	Ep	Qz		Oe	Cb	Ba	Cl	Cd	Kf	Hm						Mg
REMARKS																											
	174.00	175.41			FLIN S			QZ	FX	BI					44	5			MS	EQ						CT 10	
	178.19	198.35			INVL U			QZ	FX	AX	CB 1			SP	33	4			BN	FO			D 1	D 1		BN 05	FO 05
	178.45	198.35		20	SAND S			QZ	FX	BI				4A	33	4			BN	FO						BN 05	FO 05
	198.35	210.07		L 15	FLVL U			QZ	FX		MS 15	CB 10	AX 5	BA	23	3			BN	FO						BN 05	FO 05
	201.22	208.00		L 10	20 PELT S			QZ	FX	BI	MS 10			4A	23	3			BN	FO			L 1	L 2		BN 05	FO 05
	210.07	225.15		L 15	PELT U			QZ	FX	BI	MS 15			4A	23	3			BN	FO			L 1	L 2		BN 05	FO 05
	225.15	227.08		L 15	FLVL U			QZ	FX		MS 15	CB 10		BA										L 1	L 1		
	227.08	227.08		END OF Hole																							

Diamond Drill Log Summary

Hole # : I-9-10

0 - 19.90 m. Overburden

19.90 - 29.09 m. Graywacke Sandstone

29.09 - 38.84 m. Mafic Volcanic Rock

38.84 - 140.22 m. Graywacke Sandstone

140.22 - 169.37 m. Pelite

162.50 - 169.37 m. Upper Anomalous Zone

This zone is characterized by abundant sericite (20%) and laminated py and po (1%)

169.37 - 174.56 m. Amphibole Dike

174.56 - 186.65 m. Pelite

186.65 - 213.26 m. Intermediate to Felsic Volcanic Rock (Egg Lake Horizon)
py and po (3%)

213.26 - 221.38 m. Pelite

221.38 - 229.38 m. Quartz, Sericite Schist w/ py and po (3%)

229.38 - 254.51 m. Chlorite, Sericite, Biotite Schist w/ garnet and kyanite

Blue

DRILL HOLE

I-9-10

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

I-9

TARGET Eos Lake Horizon

[Signature]

FLAG	FROM	TO	REC% MIX%		ROCK ET		T		R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	SIDP	S2DP	
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl		Cd	Kf	Hm	Mg	Po	As	Py						Sb
			REMARKS																									
						M							OE															
	206.64	207.38																										
	208.31	208.32				M																						
	213.26	221.38	L10							PELT U		QZ	FX	BI	MS10		4A	23	3		BN	F&				BN	F&10	
	221.38	229.38								FLVL U		QZ	FX	MS	C65	QE1		7A	23	3		BN	F&				BN	F&10
	229.38	254.51								SCHS U		QZ	BI	MS				4A	33	4		SL	F&				SL	F&10
	254.51	254.51																										

END OF Hole

DRILL HOLE

I-10-1

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY I-10

TARGET Egg Lake Anomaly

Alu

FLAG	FROM	TO	REC% MIX%		ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	S1DP	S2DP		
			Ms	Bi				To	Ky	Ga	St	Ep	Qz		Oe	Cb	Ba	Cl	Cd	Kf	Hm						Mg	Po
			REMARKS																									
	137.86	137.91			BREC	S																BR						
												# 10																
	142.82	147.76				M						AXB 10																
	157.40	162.19				M						AXB 5																
	167.16	181.27		60	INVL	S			QZ	FX	AX			4A	34	404			BN	FQ					BN 10	FQ 10		
	176.58	176.90				M																						
	183.06	190.40		10	PELT	S			QZ	FX		MS 5		6A	13	103			BN	FQ					BN 08	FQ 08		
	183.07	190.40				M						AXB 5																
	190.40	204.87			PELT	U			QZ	FX		MS 20		6A	13	103			BN	FQ					BN 10	FQ 10		
	198.72	203.44		80	FLVL	S			QZ	FX				7A	34	404			BN	FQ					BN 10	FQ 10		
	204.87	209.19			SAND	U			QZ	FX	BI			PA	34	404			BN	FQ					BN 10	FQ 10		
	209.19	212.04			MFVL	U			FX	QZ	AX	AXB 80	BI 20	3G	34	404			BN	FQ					BN 10	FQ 10		

LAC MINERALS LTD.

DIAMOND DRILL DOWN-HOLE SURVEY DATA ENCODING FORM

DRILL HOLE

I-10-1

TOTAL DEPTH

359

SURVEYED BY

RAC

LOCATION	AZ.	DIP	SPERRY, SUN	TROP	ACID	OTHER	REMARKS
Collar	180°	-45°					
50m		-42°			✓		
100m		-42°			✓		
100m	206°	-42°		✓			
150m		-41°			✓		
200m		-38°			✓		
	210°						
250m		-36°			✓		
300m		-35°			✓		
350m	213°	-35°		✓			

[Handwritten Signature]

DRILL HOLE

I-10-2

LAC MINERALS LTD.

GEOLOGICAL ENCODING FORM

Page 1 of 2

PROJECT

White River

PROPERTY

I-10

TARGET Egg Lake Anomaly

Core Size

BQ

Date Started

Sept. 3, 1986

Line

L37+25E

Northing

2161

Drilled by

Bradley Bros.

Date Completed

Sept. 8, 1986

Station

9+25N

Easting

Surveyed by

RAC

Date Logged

Sept. 5, 1986

Unit of Measurement

Metric

Elevation

Logged by

RAC

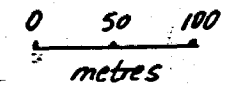
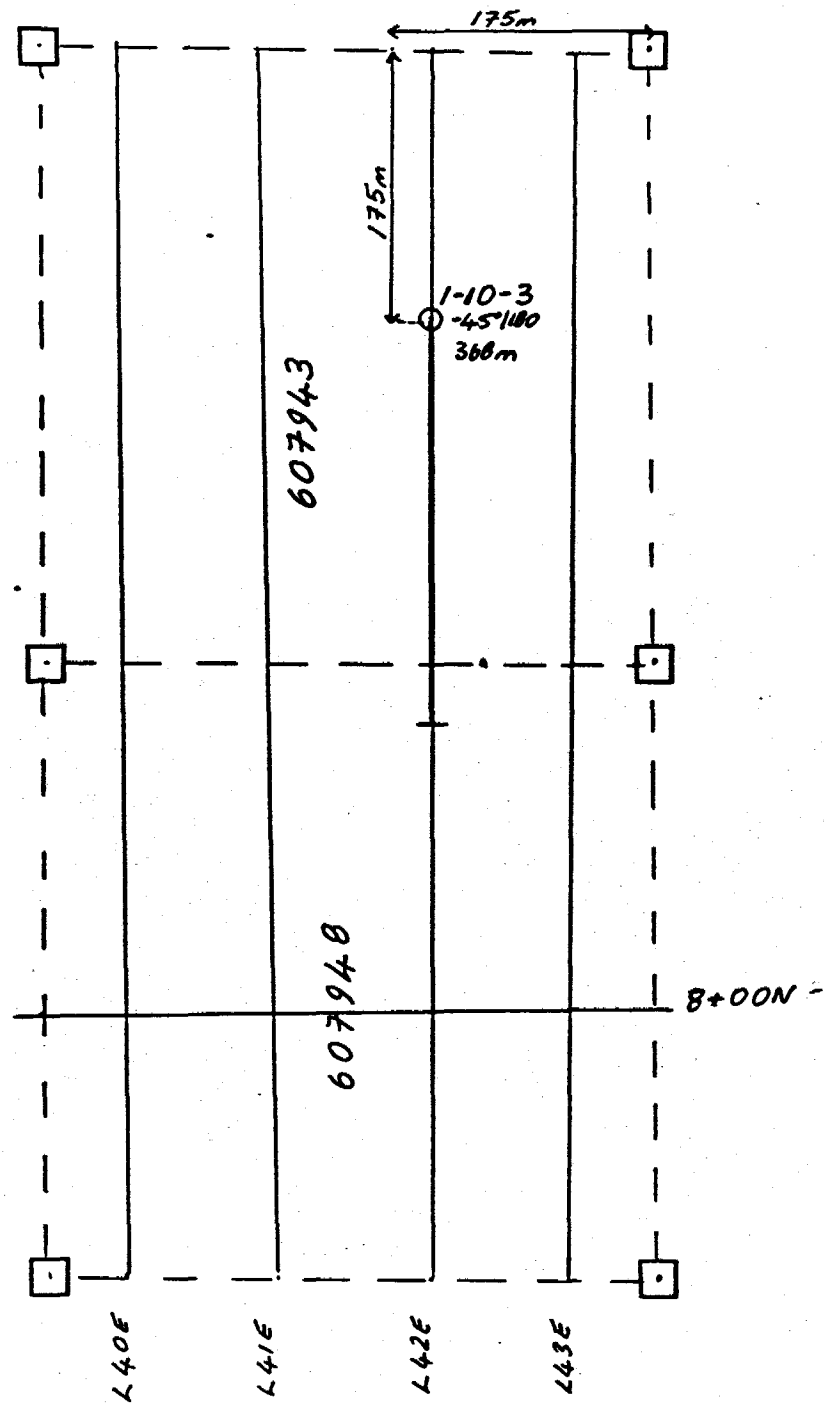
Line Grid Azm.

Survey Grid Azimuth

Total Depth

413.00

FLAG	FROM	TO	REC% MIX% ROCK ET			T		R-F MINERALS				TYPIFYING MATERIAL				COL	GRN SIZE		CST MOR		TEXTURES				XL	MP	FC	CO	S1DP	S2DP
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd		Kf	Hm	Mg	Po	As	Py	Sb	Rg						
			REMARKS																											
	0	5.00	CASG U																											
	5.00	28.80	FLIN U QZ FX BI FP 10 6A 34605 MS FPS 5																											
			Granite (Cedar Lake Pluton)																											
	25.13	25.73	100 SCHS S QZ BT CL 5 3YG 34404 SC FQ SC 0 FQ 0																											
	28.80	177.31	L 5 SCHS U QZ BI CL 15 Ky 10 Ms 5 4A 34407 Se FQ SC 35 FQ 35																											
			S 10 D 1 S tr L 15																											
	29.90	33.10	35 FLIN S QZ FX BT FP 10 6A 34605 MS FPS 5																											
	57.83	59.32	10 FXPP S QZ FX FP 10 6A 34605 MS FPS 5																											
	77.70	79.79	40 FXPP S QZ FX FP 15 6A 34605 MS FPS 5																											
	101.55	106.67	55 FXPP S QZ FX FP 15 6A 34605 MS FPS 5																											
			D 1																											
	114.28	121.73	50 FXPP S QZ FX FP 15 6A 34605 MS FPS 5																											
			D 1																											
	132.66	143.33	20 S QZ FX BI 6A 23253 BN FQ BN 35 FQ 35																											



D. W. A.

Drawing Location map for 1-10-3 Brothers Twp. Thunder Bay District		
Dwn. By D.W.A.	Scale 1:5,000	
Date 28 May 1991	Dwng. No. 1:	

DRILL HOLE

I-10-3

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 3 of 3

PROJECT

White River

PROPERTY I-10

TARGET Egg Lake Anomaly

White

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE	CST MOR	TEXTURES			XLMP	FC	CO	S1DP	S2DP		
			Ms	Bi	To	Ky	Go	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg	Mo	Au	
			REMARKS																							
	215.00	215.59				M																				
			Disseminated Sphalerite																							
	217.77	217.94				M																				
			Sphalerite in fractures																							
	219.24	219.54				M																				
			Sphalerite in fractures																							
	247.93	248.50				M																				
			Sphalerite in fractures																							
	248.90	256.63	90	PEGM	S			QZ	Fx																	
			Disseminated Chalcopyrite and galena																							
	268.29	300.94				M																				
			V12																							
	279.11	279.21				M																				
			Sphalerite in fractures																							

DRILL HOLE

I-10-4

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

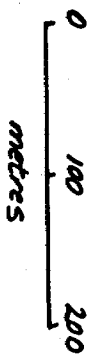
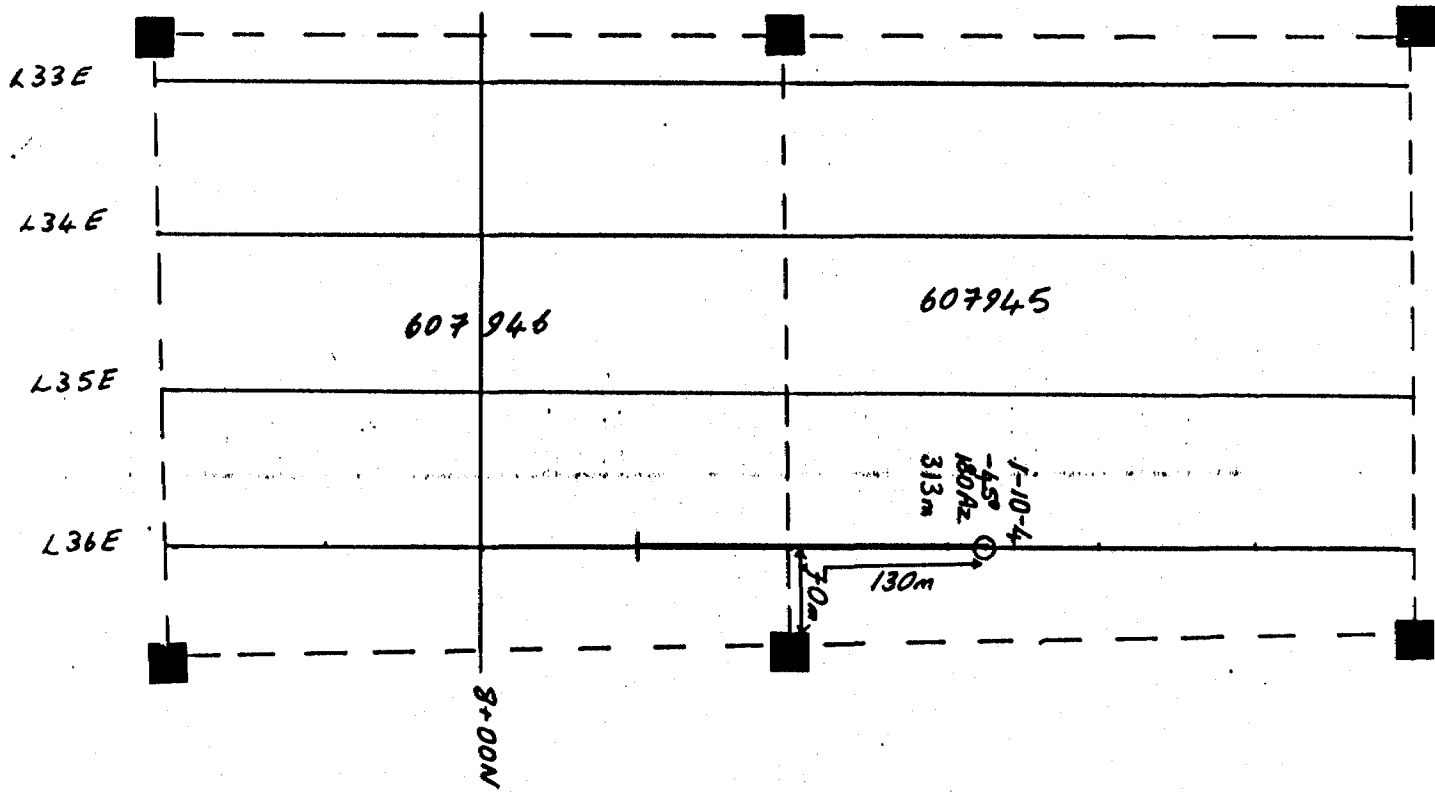
White River

PROPERTY I-10

TARGET Egg Lake Anomaly

Core Size	BQ	Date Started	Sept. 17, 1986	Line	36+00 E	Northing	2744
Drilled by	Bradley Bros.	Date Completed	Sept. 22, 1986	Station	11+25 N	Easting	
Surveyed by	RAC	Date Logged	Sept. 20, 1986	Unit of Measurement	Metric	Elevation	
Logged by	RAC	Line Grid Azm.	180°	Survey Grid Azimuth	180°	Total Depth	313 m

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE	CST MOR	TEXTURES			XLMP	FC	CO	S1DP	S2DP				
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg	Mo	Au			
			REMARKS																									
	0	34.00			CASG	U																						
	34.00	50.89			FLIN	U		QZ	FX	BI				6AW	444		MS	EQ										
	50.89	186.00			SCHS	U		BI	CL	QZ	MS	10		4A	34405		SC						SC	18				
	58.61	70.93		10	QZVN	S		QZ						W	444													
	59.00	70.33		25	FLIN	S		QZ	FX	BI				6AW	444		MS	EQ										
	79.70	94.53		90	FLIN	S		QZ	FX	BI				6AW	444		MS	EQ										
	100.00	127.87				M																						
					Cordierite and/or Chloritoid in trace amounts																							
	121.66	122.97		100	LAMP	S		FX	FX	BI	CB	10		N	444		MS							DY				
												J	10															
	127.87	136.49		50	FLIN	S		QZ	FX	BI				6AW	444		MS	EQ										
	138.60	143.07		95	FLIN	S		QZ	FX	BI				6AW	444		MS	EQ										



Q. K. L.

Drawing Location map for 1-10-4, Brothers Twp
Thunder Bay District

Dwn. By DWH

Scale 1:5,000

Date 28 May 1991

Dwng. No. 1



Diamond Drill Log Summary

Hole # : I-10-5

0-11.30m. Overburden

11.30-22.12m. Pelite

22.12-32.05m. Graywacke Sandstone

32.05-35.60m. Pelite

35.60-58.23m. Chlorite, sericite, Biotite Schist

58.23-62.30m. Graywacke Sandstone

62.30-75.34m. Felsic Volcanic Rock w/ carbonate (2%) and
py and po (6%)

75.34-78.98m. Quartz, sericite Schist, w/ py and po (5%)

78.98-81.26m. Graywacke Sandstone

81.26-83.04m. Intermediate to Felsic Volcanic Rock w/ py and po (5%)

83.04-93.24m. Pelite w/ py and po (3%)

93.24-95.60m. Felsic Volcanic Rock w/ py and po (2%)

95.60-113.89m. Pelite

Drills

113.89 - 139.30 Diabase Dike

Dike

DRILL HOLE

I-10-5

LAC MINERALS LTD.

GEOLOGICAL ENCODING FORM

Page 1 of 3

PROJECT

White River

PROPERTY

I-10

TARGET I.P. Conductor

Core Size

BQ

Date Started

Sept 5, 1987

Line

L35+00E

Northing

Duke

Drilled by

Advance

Date Completed

Sept. 7, 1987

Station

8+50N

Easting

Surveyed by

B.S.

Date Logged

Sept. 7, 1987

Unit of Measurement

Metric

Elevation

Logged by

RAC

Line Grid Azm.

N-S

Survey Grid Azimuth

N-S

Total Depth

139.30m

FLAG	FROM	TO	REC% Ms	MIX% Bi	ROCK To	ET Ky	T Ga	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE			CST MDR			TEXTURES			XLMP	FC	CO	SIDP	S2DP
								St	Ep	Qz	Os	Cb	Ba		Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb					
					CASG	U																						
0	11.30																											
	11.30	22.12	L 20		PELT	U			QZ	FX	BI	MS 20		5A	23	3			BN	FQ						BN 15	FQ 15	
	22.02	22.12					M																					
	22.12	32.05			SAND	U			QZ	FX	BI			4A	33	4			BN	FQ						BN 15	FQ 15	
	32.05	35.60	L 10		PELT	U			QZ	FX	BI	MS 10		5A	23	3			BN	FQ						BN 15	FQ 15	
	35.60	58.23			SAHS	U			QZ		BI	MS	CL 10	4A	33	4			SC	FQ						SA 15	FQ 15	
	56.25	56.41			100 LAMPS				CL	PX	FX			3N	24	4			MS									
	58.23	62.30			SAND	U			QZ	FX	BI			4A	33	4			BN	FQ						BN 15	FQ 15	
	61.95	62.01			100 LAMPS				CL	PX	FX			3N	24	4												
	62.30	75.24	L 10		FLVL	U			QZ	FX		MS 10	Cb 2	6A	23	3			BN	FQ						BN 15	FQ 15	

DRILL HOLE

I-10-5

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

Page 3 of 3

PROJECT White River

PROPERTY I-10

TARGET I.P. Conductor

White

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS			TYPIFYING MATERIAL			COL	GRN SIZE		CST MOR		TEXTURES			XLMP	FC	CO	S1DP	S2DP	
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oe	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg	Mo	Au		
			REMARKS																								
	93.24	95.60			FLVL U				QZ	FX				6A	23	3			BN	EQ						BN 15	EQ 15
	95.60	113.89			PELT U				QZ	FX	BI	MS 10		4A	23	3			BN	EQ						BN 15	EQ 15
						M																					
	95.60	96.80						D 10																			
						M																					
	97.75	98.20							Sphalerite in veinlets, trace amounts																		
						M																					
	100.50	109.65							QZ - Carb - Az - Ep alteration bands																		
					65	MEIN S			Az	FX				3G	4	4	5		MS	EQ							
	103.55	106.00																									
					DIAB U				Px	FX		Ms	Ep 1	3G	4	4	5		MS	EQ					CT		
	113.89	139.30				M																					
	113.89	116.25							Chill Margin																		
						M																					
	139.30	139.30							End of Hole																		

Diamond Drill Log Summary

Hole # : I-10-6

0 - 3.29 m. Overburden

3.29 - 20.52 m. Chlorite, Sericite, Biotite Schist

20.52 - 22.00 m. Feldspar porphyry Dike

22.00 - 31.21 m. Pelite

31.21 - 44.20 m. Intermediate to Felsic Volcanic Rock w/ py and po (3%)

44.20 - 52.96 m. Quartz, Sericite Schist w/ py and po (10%)

52.96 - 104.37 m. Intermediate to Felsic Volcanic Rock w/ py and po (4%)

104.37 - 115.67 m. Pelite

115.67 - 122.15 m. Intermediate to Felsic Intrusive Rock

122.15 - 202.69 m. Chlorite, Sericite, Biotite Schist

D. J. [Signature]

DRILL HOLE

I-10-6

LAC MINERALS LTD. GEOLOGICAL ENCODING FORM

PROJECT

White River

PROPERTY

I-10

TARGET

I.P. Conductor

Core Size BQ Date Started Aug. 30, 1987 Line L36400E Northing 7450N
 Drilled by Advance Date Completed Sept. 2, 1987 Station 7450N Easting 7450N
 Surveyed by RAC Date Logged Sept 5, 1987 Unit of Measurement Metric Elevation 202.69
 Logged by RAC Line Grid Azm. N-S Survey Grid Azimuth N-S Total Depth 202.69

FLAG	FROM	TO	REC%	MIX%	ROCK	ET	T	R-F MINERALS					TYPIFYING MATERIAL					COL	GRN SIZE			CST MDR		TEXTURES					XL	MP	FC	CO	SIDP	S2DP				
			Ms	Bi	To	Ky	Ga	St	Ep	Qz	Oa	Cb	Ba	Cl	Cd	Kf	Hm	Mg	Po	As	Py	Sb	Rg	Mo	Au													
			REMARKS																																			
	0	3.29			CASG	U																																
	3.29	20.52			SCHS	U		QZ	BI	MS	CL15				4A	33	4			SA	FX											SA	15	FX	15			
	20.52	22.00			FXPP	U		QZ	FX		FP5				5A	34	5			MS	PP																	
	22.00	31.21			PELT	U		QZ	FX	BI					4A	23	?			RN	FX													BN	15	FX	15	
	22.00	26.00					M																															
	31.21	44.20			FLVL	U		QZ	FX	MS	CB10	AX1			6A	23	3			RN	FX					L1			L2									
	31.21	44.20			20 PELT	S		QZ	FX	BI	MS10				4A	23	3			BN	FX																	
	44.10	44.20					M																															
	44.20	52.96			MSSH	U		QZ	MS		QE1				7A	23	3			BN	SC																	
	52.96	104.37			FLVL	U		QZ	FX	MS	CB10				6A	23	3			BN	FX					L2			L2									

Sphalerite trace amount.

DRILL HOLE GEOLOGIC LOG

LAC MINERALS LTD.
 Exploration Division
 31 Duncan Ave. S.
 Kirkland Lake, Ont. P2N 3K2
 SHEET No. 1

HOLE NUMBER I-10-7
 PAGE No. 1 OF 5
 LOGGED BY R.A. Campbell II
 DATE August 30, 1988

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

LEGEND				HOLE LOCATION WITH RESPECT TO CLAIMS		LOCATION		AZIM.		DIP					
						<u>L33E, 9+00N</u>		<u>180°</u>		<u>-45°</u>					
						COLLAR: LATITUDE _____ DEPARTURE _____		ELEVATION: COLLAR _____ BOTTOM _____		LENGTH: <u>283.46 meters</u> RECOVERY <u>100</u> % CORE SIZE <u>BQ</u>					
						PURPOSE: <u>To test fold structure</u>		DATE: STARTED <u>24/08/88</u> END <u>27/08/88</u>							
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	DESCRIPTION	VISUAL ESTIMATE %C %P %S %M %PY	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% BIL	AU gms-mt
				0	29.5	Overburden									
				29.5	55.37	sericite, chlorite, biotite schist - The rock is dark gray in color and highly schistose. the grain size is medium. Composition in decreasing order of abundance is biotite, chlorite, quartz and sericite. Trace garnet and trace pyrite (37.5-38.3m) lacks distinct banding. Schist is intercalated w/ Intermediate to felsic Volcanic Rock (25%) from 49.3 to 54.15m.									
				55.37	65.34	Intermediate to felsic Volcanic Rock - The rock is light gray to white in color and well banded. the grain size is medium to coarse. The composition in decreasing order of abundance is quartz, feldspar, amphibole, carbonate, grossular garnet, dravite, pyrite and pyrrhotite. The pyrite and pyrrhotite constitute 1% combined and occur as disseminations. The garnets are concentrated from 61.92 to 62.29m and are coarse-grained. Dravite occurs as euhedral individual crystal associated w quartz veins at 61.80m. This unit resembles the "Eag Lake Horizon". This unit is also intercalated w/ a minor amount of Pelite. Qtz veins occur at 60.19 to 60.30 and 61.72 to 61.89		04051	55	56	1				
								04052	56	57	1				
								04053	57	58	1				
								04054	58	59	1				
								04055	59	60	1				
								04056	60	61	1				
								04057	61	62	1				
								04058	62	63	1				
								04059	63	64	1				
								04060	64	65	1				
								04061	65	66	1				

R.A. Campbell

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-7 5025
 PAGE No. 5 OF 5
 LOGGED BY R.A. Campbell
 DATE August 30, 1993

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND										HOLE LOCATION WITH RESPECT TO CLAIMS				LOCATION			
METRES	LITHOLOGY	STRUCTURE	ALTERATION	MINERALIZATION	TO	FROM		DESCRIPTION	VISUAL ESTIMATE				SAMPLE				ASSAY				
						FROM	TO		%C	%B	%M	%Py	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU grams/t	
						221.57	223.50	Diabase - The rock is dark green to black in color and equigranular. The rock is composed of plagioclase, pyroxene, olivine and magnetite. From 221.57 to 222.00 m is a chill margin (Very fine-grained).													
						223.50	223.50	End of Hole													

R.A. Campbell

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-3
 PAGE No. 1 OF 4
 LOGGED BY R.A. Amis
 DATE Sept. 2, 1993

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H. DATE Sept. 2, 1993

CORE				LEGEND												HOLE LOCATION WITH RESPECT TO CLAIMS			LOCATION <u>L34E, 9+25 N</u> AZIM. <u>180°</u> DIP <u>-45°</u>				
				ARGL argillite BRXY breccia GREY gneiss GOUG gouge HORN hornfels PPBI biotite porphyry PPBY biotite hornblende porphyry PPHO hornblende porphyry PPOB quartz-biotite porphyry				MUDS mudstone MYLN mylonite PHYL phyllite SLT siltstone OVB overburden DYK dyke				AZ azurite BI biotite BL bleached BO bornite CA calcite CB carbonate CC chalcocite CP cuprite CL chalcophyllite CL chlorite				CY clay EP epidote GR graphite GY gypsum HE hematite KA kaolin KF klaprothite LI limonite MC malachite MO mud seam MO molybdenum				M molybdenite MG magnetite OX oxide zone PY pyrite QZ quartz SA saussurite SE serpentine SH shear SI siliceous TA talc X shattered rock			

METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE				ASSAY			
								%C	%B	%M	%Py	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU g/t
					0	28.00	Overburden												
					28.00	44.60	Chlorite, Biotite, Sericite Schist - This rock is light gray in color and very schistose, and well banded. The grain size is medium to fine-grained. The rock is composed of sericite, biotite, quartz, chlorite and trace pyrite.												
					44.60	48.57	Felsic Volcanic Rock - This rock is light gray to white in color and thickly banded. The grain size is medium-grained. The rock is composed of quartz, feldspar, sericite, carbonate, pyrite. The pyrite occurs as disseminations and in thin layers.					04126	44	45	1				
												04127	45	46	1				
												04128	46	47	1				
												04129	47	48	1				
												04130	48	49	1				
					48.57	64.90	Biotite, Sericite Schist - This rock is light gray in color and very schistose and well banded. The grain size is medium to fine-grained. The rock is composed of sericite, biotite, quartz. Fault gouge occurs from 64.80 to 64.90 m.												
					64.90	71.00	Altered Pelite - This rock is light gray in color and thinly banded. The grain size is fine-grained. The rock is very similar to the above rock type except it is better banded and less schistose. The rock is composed of...												

John

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-3 cont'd.
 PAGE No. 2 OF 4
 LOGGED BY R.A. Campbell
 DATE Sept. 2 1998

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND										HOLE LOCATION WITH RESPECT TO CLAIMS				LOCATION			
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	FROM		TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE				ASSAY					
				TO	FROM			TO	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU g/ton						
							sericite, quartz, biotite and trace of pyrite. Breccia occurs from 66.94 to 67.00 m.														
				71.00		74.08	Felsic to Intermediate Volcanic Rock - This rock is light gray to white in color and well banded. The grain size is medium-grained. The rock is composed of quartz, feldspar, carbonate, amphibole and pyrite. The pyrite occurs in disseminations and thin layers in amount of up to 2%.						04131	70	71	1					
													04132	71	72	1					
													04133	72	73	1					
													04134	73	74	1					
													04135	74	75	1					
				74.08		84.29	Pelite. - This rock is light to medium gray in color and thinly banded. The grain size is fine-grained. The rock is composed of biotite, quartz, sericite, pyrite and pyrochlore. The pyrite and pyrochlore occurs as disseminations and thin layers. The pelite is intercalated w/ lesser amounts of felsic to intermediate volcanic rocks from 76.20 to 84.13 m.														
				84.29		85.20	Felsic to Intermediate Volcanic Rock - This rock is light gray to white in color and well banded. The grain size is medium-grained. The rock is composed of quartz, feldspar, amphibole, carbonate, pyrite and pyrochlore.						04136	84	85	1					
													04137	85	86	1					

D. H. Campbell

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-3 Sond
 PAGE No. 3 OF 4
 LOGGED BY R. A. Campbell
 DATE Sept. 2, 1968

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND										HOLE LOCATION WITH RESPECT TO CLAIMS		LOCATION				ASSAY			
METRES	LITHOLOGY	STRUCTURE	ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE				ASSAY						
									%C	%B	%M	%Py	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU g/t			
					85.20	87.57		Sericite schist - This rock is white in color and is very schistose. The grain size is coarse-grained. The rock is composed of sericite, quartz, pyrite and pyrrhotite. The pyrite and pyrrhotite occurs as concentrated dissemination and patches up to 10% combined.					04138	86	87	1							
													04139	87	88	1							
					87.57	90.30		Felsic to Intermediate Volcanic Rock - This rock is light gray in color and is thickly banded. The grain size is medium-grained. The rock is composed of quartz, feldspar, amphibole, carbonate, garnet, pyrite, and pyrrhotite. The pyrite and pyrrhotite occurs as dissemination up to 2%.					04140	88	89	1							
													04141	89	90	1							
													04142	90	91	1							
					90.30	173.27		Graywacke - This rock is purplish gray in color and thickly banded. The grain size is medium-grained. The rock is composed of quartz, biotite, feldspar, garnet and Kyanite. Garnet and Kyanite occur in bands and are most abundant (15%) from 92.63 to 96.00 m. Amphibole band occurs from 91.12 to 92.08 m. Lamprophre dike, occurs from 91.28 to 91.58 m. Amphibole bands occurs from 99.75 to 111.19 and constitute about 5% of the rock volume.															

Dick

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-3 2015
 PAGE No. 4 OF 4
 LOGGED BY R.A. Campbell
 DATE Sept. 2, 1988

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND										HOLE LOCATION WITH RESPECT TO CLAIMS		LOCATION		AZIM.		DIP	
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE				ASSAY					
								%C	%F	%B	%M	%PY	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU gms mt	
							From 96.00 to 136.50 m the garnets and kyanite are less abundant (1%) but do occur in concentration in discrete bands.														
							Small scale folds occur from 90.30 to 142.3m														
							Amphibole bands occur from 142.46 to 157.36m, and constitute about 5%.														
							From 142.5 to 157.00m Kyanite is no longer visible and the garnets are scattered and constitute about 1%.														
							From 170.15 to 170.29 Diabase Dike														
					173.27	174.65	Diabase Dike														
					174.65	174.65	End of Hole														

R.A. Campbell

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-9
 PAGE No. 1 OF 4
 LOGGED BY R.A. Campbell
 DATE Sept. 1, 1988

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND		HOLE LOCATION WITH RESPECT TO CLAIMS				LOCATION		COLLAR: LATITUDE		DEPARTURE		ELEVATION: COLLAR		BOTTOM		LENGTH: <u>172.80</u>		RECOVERY <u>100</u>		% CORE SIZE <u>B@</u>		PURPOSE:		DATE: STARTED <u>30/08/88</u>		END <u>31/08/88</u>	
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE			ASSAY																
								%C	%B	%M	%Py	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU g/t												
					0	6.7m	Overburden																								
					6.70	17.68	Diabase Dike - This rock is dark greenish gray to black in color and is diabasic texture. The grain size is medium-grained. The rock is composed of plagioclase, pyroxene, olivine and magnetite. From 16.26 to 17.68 is the chill margin																								
					17.68	43.94	Graywacke - This rock is medium gray in color and thickly banded. The grain size is medium-grained. The rock is composed of quartz, biotite, feldspar, garnet, pyrite and pyrrhotite. The pyrite and pyrrhotite occurs as coarse disseminated grains and blebs in amounts < 1%. Garnets are concentrated in discrete band which make up 1% of the rock. The rock is interrelated w/ lesser Intermediate volcanic rock. Amphibole bands occur From 29.98 to 43.50m & to the core axis 50°					04151	19	20	1																
												04152	20	21	1																
												04153	21	22	1																
												04154	35	36	1																

R.A. Campbell

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-9 cont'd
 PAGE No. 2 OF 4
 LOGGED BY R.A. Campbell
 DATE _____

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND										HOLE LOCATION WITH RESPECT TO CLAIMS		LOCATION			
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	FROM		TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE				ASSAY			
				TO	DESCRIPTION			%C	%B	%M	%Py	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU-gm/ton
				43.94	47.80		Intermediate Volcanic Rock - This rock is greenish gray in color. The grain size is medium-grained. The rock is composed of Quartz, Feldspar and Amphibole. δ to C.A. 50°												
				47.80	100.89		Greenwacke - This rock is purplish gray in color and thickly banded. The grain size is medium-grained. The rock is composed of quartz, biotite, feldspar, sericite, garnet and trace pyrite. From 49.25 to 75.15m amphibole bands (41%) From 54.94 to 56.00m disseminated garnets (2%) From 56.63 to 56.78m Breccia From 75.75 to 77.09 m Mafic Dike δ to C.A. 50° From 77.39 to 77.52m Breccia From 87.30 to 88.41m garnets (10%)												
				100.89	130.00		Felsic to Intermediate Volcanic Rock - This rock is light gray to white and well banded. The grain size is medium-grained. The rock is composed of quartz, Feldspar, carbonate, amphibole, pyrite and pyrrhotite. The pyrite and pyrrhotite occur as disseminations and thin layers up to 7% combined. δ to C.A. 48° From 106.70 to 108.04m Mafic Dike. From 112.73 to 113.50m Mafic Dike. δ to C.A. 43° From 120.17 to 120.65m large Garnets (5%)												
													04155	100	101	1			
													04156	101	102	1			
													04157	102	103	1			
													04158	103	104	1			
													04159	104	105	1			
													04160	105	106	1			
													04161	106	107	1			
													04162	108	109	1			
													04163	109	110	1			
													04164	110	111	1			

D. Wilson

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-9 cont'd
 PAGE No. 3 OF 4
 LOGGED BY RA Campbell
 DATE _____

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND		HOLE LOCATION WITH RESPECT TO CLAIMS		LOCATION		AZIM		DIP							
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE				ASSAY			
								%C	%F	%B	%M	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU gms/ton
							From 120.23 to 123.45m Quartz Vein					04165	111	112	1				
							From 121.26 to 129.70m. The rock is intercalated w/ lesser Pelite.					04166	112	113	1				
							From 126.10 to 126.17m. Mafic Dike					04167	113	114	1				
												04168	114	115	1				
												04169	115	116	1				
					130.00	140.25	Pelite. - This rock is medium gray in color and thinly banded. The grain size is fine-grained. The rock is composed of biotite, sericite, quartz and trace pyrite. δ to C.A. 46°					04170	116	117	1				
							From 131.50 to 132.54m. Mafic Dike.					04171	117	118	1				
							From 135.20 to 135.59m Qtz - Mus Vein					04172	118	119	1				
							From 136.62 to 136.88m. large feldspar porphyroblasts (5%) possibly Feldspar porphy-dike?					04173	119	120	1				
												04174	120	121	1				
												04175	121	122	1				
												04176	122	123	1				
												04177	123	124	1				
												04178	124	125	1				
												04179	125	126	1				
					140.25	142.30	Intermediate to Mafic Volcanic Rock - This rock is medium green in color. The grain size is medium-grained. The rock is composed of amphibole, chlorite, feldspar and quartz. δ to C.A. 38°					04180	126	127	1				
												04181	127	128	1				
												04182	128	129	1				
												04183	129	130	1				
					142.30	144.04	Feldspar Porphyry - This rock is light gray in color and has an igneous texture. The grain size is medium to coarse-grained. The rock is composed of quartz, Feldspar, and biotite. From 142.30 to 143.40m Hematite stained												
					144.04	172.80	Sericite, Chlorite, Biotite Schist - This rock is dark gray in color and highly schistose. The grain size is medium to coarse-grained. The rock is composed of biotite, sericite, quartz, and chlorite.												

Handwritten signature

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-1-5010
 PAGE No. 4 OF 4
 LOGGED BY R.A. Campbell
 DATE _____

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND																HOLE LOCATION WITH RESPECT TO CLAIMS		LOCATION _____ AZIM. _____ DIP _____	
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	FROM		TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE			ASSAY		DATE: STARTED _____ END _____						
				TO	DESCRIPTION	%C		%P	%B	%M	%Py	NUMBER	FROM	TO	METRES	% Cu		% Cu O	% Mo.	AU gms met			
							<u>to C.A. 48°</u>																
				<u>172.80</u>	<u>172.80</u>		<u>End of Hole</u>																

METRES

LITHOLOGY

STRUCTURE ALTERATION

MINERALIZATION

ARGL argillite
 BRXY breccia
 GREY grewacke
 GOUG gouge
 HORN hornfels
 PPBI biotite porphyry
 PPBD biotite hornblende porphyry
 PPHO hornblende porphyry
 PPOB quartz-biotite porphyry

MUDS mudstone
 MYLN mylonite
 RHYL rhyolite
 SILT siltstone
 OVB overburden
 DYK dyke

AZ azurite
 BI biotite
 BL bleached
 BO bornite
 CA calcite
 CB carbonate
 CC chalcocite
 CI cuprite
 CP chalcopyrite
 CL chlorite

CY clay
 EP epidote
 GR graphite
 GY gypsum
 HE hematite
 KA kaolin
 KP klapar
 LI limonite
 MC malachite
 MD mud seam
 MO molybdenum

M molybdenite
 MG magnetite
 OX oxide zone
 PY pyrite
 QZ quartz
 SA saussurite
 SE serpenite
 SH shear
 SI siliceous
 TA talc
 X shattered rock

HOLE LOCATION WITH RESPECT TO CLAIMS

LOCATION _____ AZIM. _____ DIP _____

COLLAR: LATITUDE _____ DEPARTURE _____

ELEVATION: COLLAR _____ BOTTOM _____

LENGTH: _____ RECOVERY _____ % CORE SIZE _____

PURPOSE: _____

DATE: STARTED _____ END _____

CORE				LEGEND																HOLE LOCATION WITH RESPECT TO CLAIMS		LOCATION _____ AZIM. _____ DIP _____	
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	FROM		TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE			ASSAY		DATE: STARTED _____ END _____						
				TO	DESCRIPTION	%C		%P	%B	%M	%Py	NUMBER	FROM	TO	METRES	% Cu		% Cu O	% Mo.	AU gms met			
							<u>to C.A. 48°</u>																
				<u>172.80</u>	<u>172.80</u>		<u>End of Hole</u>																

R.A. Campbell

DRILL HOLE GEOLOGIC LOG

HOLE NUMBER I-10-10
 PAGE No. 1 OF 2
 LOGGED BY S.A. [Signature]
 DATE Sept. 7, 1988

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H. DATE Sept. 7, 1988

	LEGEND <table style="width:100%; font-size: small;"> <tr> <td>ARGL argillite</td> <td>MUDS mudstone</td> <td>AZ azurite</td> <td>CY clay</td> <td>M molybdenite</td> </tr> <tr> <td>BRXY breccia</td> <td>MYLN mylonite</td> <td>BI biotite</td> <td>EP epidote</td> <td>MG magnetite</td> </tr> <tr> <td>GREY grewacke</td> <td>RHYL rhyolite</td> <td>BL bleached</td> <td>GR graphite</td> <td>OX oxide zone</td> </tr> <tr> <td>GOUG gouge</td> <td>SILT siltstone</td> <td>BO borrite</td> <td>GY gypsum</td> <td>PY pyrite</td> </tr> <tr> <td>HORN hornfels</td> <td></td> <td>CA calcite</td> <td>HE hematite</td> <td>QZ quartz</td> </tr> <tr> <td>PPBI biotite porphyry</td> <td>OVB overburden</td> <td>CC carbonate</td> <td>KF kaolin</td> <td>SP serpentinite</td> </tr> <tr> <td>PPBV biotite hornblende porphyry</td> <td>DYK dyke</td> <td>LI limonite</td> <td>LI limonite</td> <td>SH shear</td> </tr> <tr> <td>PPHO hornblende porphyry</td> <td></td> <td>MC malachite</td> <td>MC malachite</td> <td>SL siliceous</td> </tr> <tr> <td>PPQB quartz-biotite porphyry</td> <td></td> <td>MO mud seam</td> <td>MO mud seam</td> <td>TA talc</td> </tr> <tr> <td></td> <td></td> <td>CH chlorite</td> <td>MO molybdenum</td> <td>X shattered rock</td> </tr> </table>	ARGL argillite	MUDS mudstone	AZ azurite	CY clay	M molybdenite	BRXY breccia	MYLN mylonite	BI biotite	EP epidote	MG magnetite	GREY grewacke	RHYL rhyolite	BL bleached	GR graphite	OX oxide zone	GOUG gouge	SILT siltstone	BO borrite	GY gypsum	PY pyrite	HORN hornfels		CA calcite	HE hematite	QZ quartz	PPBI biotite porphyry	OVB overburden	CC carbonate	KF kaolin	SP serpentinite	PPBV biotite hornblende porphyry	DYK dyke	LI limonite	LI limonite	SH shear	PPHO hornblende porphyry		MC malachite	MC malachite	SL siliceous	PPQB quartz-biotite porphyry		MO mud seam	MO mud seam	TA talc			CH chlorite	MO molybdenum	X shattered rock	HOLE LOCATION WITH RESPECT TO CLAIMS LOCATION <u>L31E, 6+00N</u> AZIM <u>100°</u> DIP <u>-45°</u> COLLAR: LATITUDE _____ DEPARTURE _____ ELEVATION: COLLAR _____ BOTTOM _____ LENGTH: <u>151.50 m</u> RECOVERY <u>100</u> % CORE SIZE <u>30</u> PURPOSE: _____ DATE: STARTED <u>August 31, 1988</u> END <u>Sept. 2, 1988</u>
ARGL argillite	MUDS mudstone	AZ azurite	CY clay	M molybdenite																																																
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METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE				ASSAY			
								%CP	%BI	%M	%PY	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU gms/m ³
					0	10.40	Overburden												
					10.40	14.60	Pelite - This rock is medium gray in color and is thinly banded. The grain size is fine-grained. The rock is composed of biotite, quartz, sericite and feldspar. δ to C.A. 78°												
					14.60	44.96	Felsic to Intermediate Volcanic Rock - This rock is light greenish gray in color and thickly banded. The grain size is medium-grained. The rock is composed of quartz, feldspar, sericite, amphibole, carbonate and pyrite. δ to C.A. 90° From 33.00 to 44.96 m. decrease in amount of amphibole and increase in amount of sericite and pyrite (5%). Pelite occurs as disseminations and thin layers. From 36.35 to 44.96 m. intercalated w/ lesser pelite					04201	33.00	34.00	1				
												04202	34.00	35.00	1				
												04203	35.00	36.00	1				
												04204	36.00	37.00	1				
												04205	37.00	38.00	1				
												04206	38.00	39.00	1				
												04207	39.00	40.00	1				
												04208	40.00	41.00	1				
												04209	41.00	42.00	1				
												04210	42.00	43.00	1				
												04211	43.00	44.00	1				
												04212	44.00	45.00	1				
												04213	45.00	46.00	1				
												04214	46.00	47.00	1				
					44.96	73.88	Altered Pelite - This rock is medium gray in color and thinly banded. The grain size is fine-grained. The rock is composed of biotite, sericite, quartz, and minor pyrite. δ to C.A. 93°												

[Handwritten signature]

DRILL HOLE GEOLOGIC LOG

PROJECT White River (I-10) TYPE OF HOLE D.D.H. R.D.H. P.D.H.

CORE				LEGEND												HOLE LOCATION WITH RESPECT TO CLAIMS	LOCATION _____ AZIM _____	
METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION													COLLAR: LATITUDE _____ DEPARTURE _____		
																ELEVATION: COLLAR _____ BOTTOM _____		
																LENGTH: _____ RECOVERY _____ % CORE SIZE _____		
																PURPOSE: _____		
																DATE: STARTED _____ END _____		

METRES	LITHOLOGY	STRUCTURE ALTERATION	MINERALIZATION	TO	FROM	TO	DESCRIPTION	VISUAL ESTIMATE				SAMPLE			ASSAY				
								%C	%P	%B	%M	NUMBER	FROM	TO	METRES	% Cu	% Cu O	% Mo	AU gms mt
							From 60.86 to 61.74m Mafic Dike												
							From 44.96 to 72.88 m intercalated w/ lesser felsic volcanic rock												
				72.88	81.96		Felsic Volcanic Rock - This rock is medium gray in color and thickly banded. The grain size is medium-grained. The rock is composed of quartz, feldspar, minor pyrite, minor sericite, and trace carbonate. The pyrite occurs as fine disseminated grains and constitutes <1% of C.A. 83°					04215	72.00	73.00					
												04216	73.00	74.00					
												04217	74.00	75.00					
												04218	75.00	76.00					
												04219	76.00	77.00					
												04220	77.00	78.00					
												04221	78.00	79.00					
												04222	79.00	80.00					
												04223	80.00	81.00					
												04224	81.00	82.00					
				81.96	151.50		Chlorite, Sericite, Biotite schist - This rock is dark gray in color and highly schistose. The grain size is medium-grained. The rock is composed of biotite, sericite, quartz and chlorite. of C.A. 78°												
							From 89.04 to 90.50 m. Feldspar porphyry dike												
							From 96.60 to 96.81 m. " " "												
							From 104.60 to 106.32 m. Felsic Intrusive Dike												
							From 107.45 to 108.89 m. Feldspar Porphyry Dike												
							From 109.00 to 113.90 m. disseminated garnets (1%)												
							From 133.37 to 133.53 m. Felsic Intrusive w/ garnet and staurolite.												
							From 150.59 to 150.83 m. Felsic Intrusive w/ garnet.												
				151.50	151.50		End of Hole												

R.P. Campbell

Mr. Owen



42C12NW0002 20 BROTHERS

900

Mining Act

Report of Work

Name and Address of Recorded Holder <i>LAC Minerals Ltd 1100-20 Adelaide St E.</i>	Prospector's Licence No. <i>T-664</i>
<i>Toronto, ONT. M5C 2T6</i>	Telephone No. <i>416-367-1031</i>

Summary of Distribution of Credits and Work Performance

Mining Division <i>THUNDER BAY</i>	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.
	Prefix	Number			Prefix	Number			Prefix	Number		
Township of Area <i>BROTHERS LABERGE</i>												
Total Assessment Credits Claimed <i>33,619.6 35222.11 DWA</i>												
Type of Work Performed (Check one only)												
<input type="checkbox"/> Manual Work												
<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work												
<input type="checkbox"/> Mechanical equipment												
<input type="checkbox"/> Power Stripping other than Manual (maximum credit allowed - 100 days per claim)												
<input checked="" type="checkbox"/> Diamond or other Core drilling												
<input type="checkbox"/> Core Specimens												

Dates when work was performed From: <i>Aug 7 1986</i> To: <i>Sept 2 1988</i>	Total No. of Days Performed <i>33619.6</i>	Total No. of Days Claimed <i>0</i>	Total No. of Days to be Claimed at a Future Date <i>33619.6</i>
	<i>35222.11 DWA</i>		<i>35222.11 DWA</i>

All the work was performed on Mining Claim(s): Indicate no. of days performed on each claim. (See Note No. 1 on reverse side)	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days	Mining Claim	No. of Days
	<i>SEE SCHEDULE 'A' - ATTACHED</i>		<i>SEE SCHEDULE 'A' - ATTACHED</i>		<i>SEE SCHEDULE 'A' - ATTACHED</i>		<i>SEE SCHEDULE 'A' - ATTACHED</i>	

Required information eg. type of equipment, Names, Addresses, etc. (See Table on reverse side)
If space below is insufficient, attach schedules with required information and location sketches

SEE SCHEDULE 'B' - ATTACHED

ONTARIO GEOLOGICAL SURVEY
GIS - ASSESSMENT FILES
JUN 18 1991

RECEIVED
THUNDER BAY
MINING DIVISION
'91 MAY 31 AM 11 20

certification of Beneficial Interest * (See Note No. 2 on reverse side)

I hereby certify that, at the time the work was performed, the claims covered in this report of work were recorded in the current recorded holder's name or held under a beneficial interest by the current recorded holder.

Date <i>30 May 1991</i>	Recorded Holder or Agent (Signature) <i>Dobler</i>
----------------------------	---

certification Verifying Report of Work

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

Name and Address of Person Certifying
DAVID ADAMSON 901 WIPER CRESCENT, THUNDER BAY, ONT

Telephone No. <i>807-623-1188</i>	Date <i>30 May 1991</i>	Certified By (Signature) <i>Dobler</i>
--------------------------------------	----------------------------	---

or Office Use Only

Work Assignments	Received Stamp
------------------	----------------

607 730	629.76
607 732	2836.87
607 738	241.21
607 739	779
607 740	3810.81
607 741	2472.74
607 742	2163.42
607 743	834.79
607 744	2128.18
607 745	709.72
607 746	1395.4
607 747	143.1
607 748	320.2
607 749	1029.47
607 750	1305.55
607 752	481.16
607 754	369
607 755	1024.87
607 774	856.77
607 920	60.3
607 943	2671.68
607 945	603.02
607 946	3380.7
607 947	1312.74
607 948	366.31
607 972	41.9
607 973	369.37
625 545	726.65
625 581	338.62
625 583	885.05
625 584	336.92
625 667	596.83

REFERENCES

AS WITHDRAWN FROM DISPOSITION

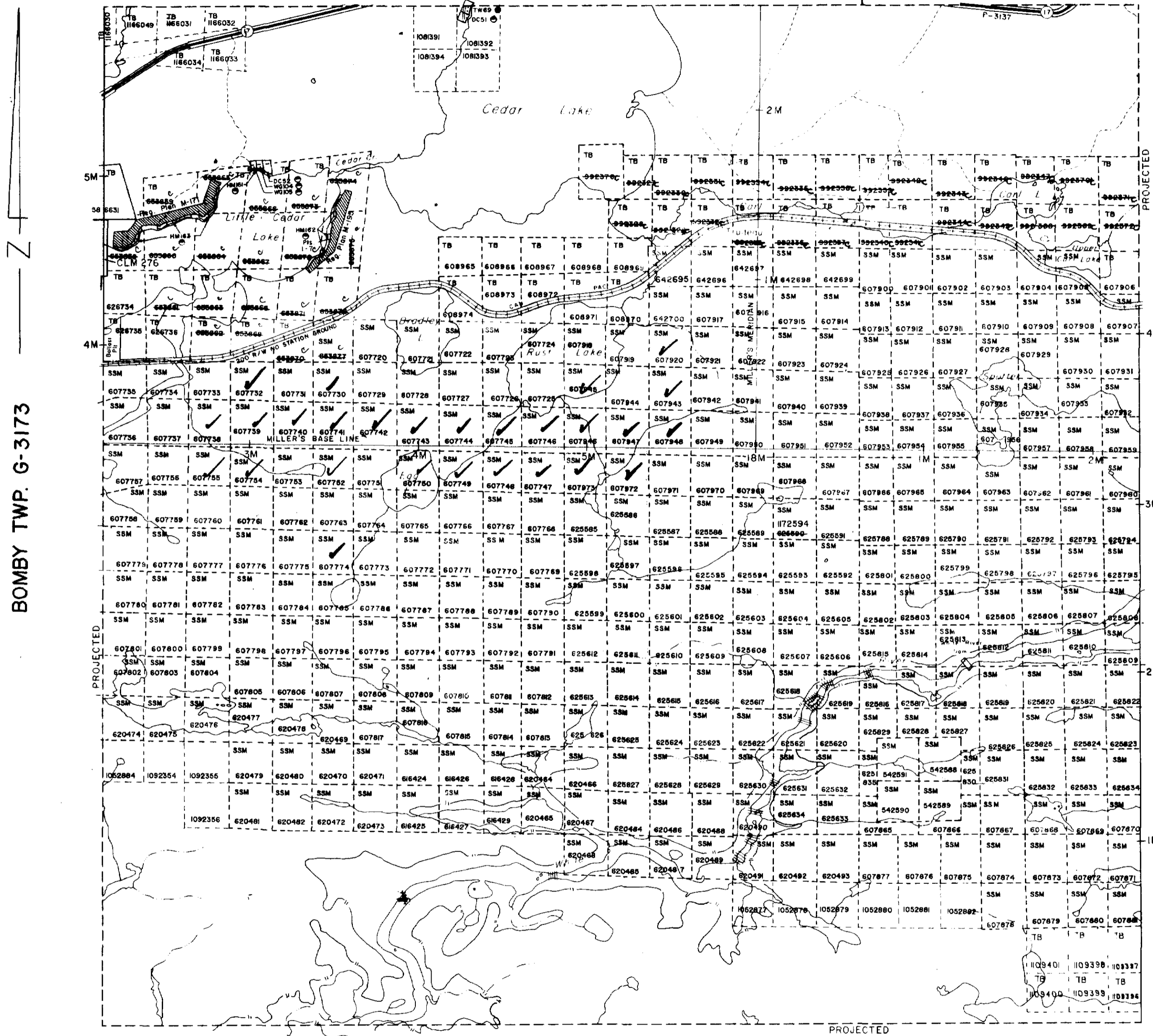
- M.R.O. - MINING RIGHTS ONLY
- S.R.O. - SURFACE RIGHTS ONLY
- M + S. - MINING AND SURFACE RIGHTS

Description Order No. Date Disposition File

MINE RIGHTS ON THE WHITE R. GRANTED TO ONTARIO
 TO CONTOUR ELEVATION 1060', FILE: I13986
 WN THUS

WABIKOBA LAKE G-620

WHITE LAKE (S.P.T.)
 G-623



BOMBY TWP. G-3173

LABERGE TWP. G-3174

HERRICK LAKE G - 3768

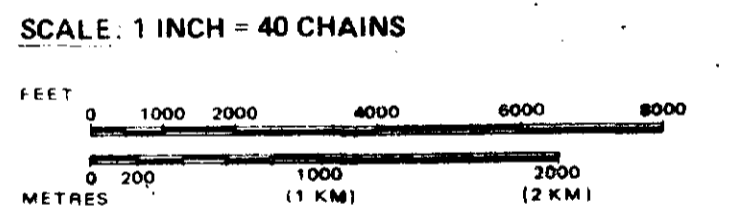
LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LEASE, SURFACE & MINING RIGHTS	
" SURFACE RIGHTS ONLY	
" MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	
LAND USE PERMITS FOR COMMERCIAL TOURISM, OUTPOST CAMPS	

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1.



TOWNSHIP
BROTHERS
 M.N.R. ADMINISTRATIVE DISTRICT
TERRACE BAY / WAWA
 MINING DIVISION
SAULT STE. MARIE / THUNDER BAY
 LAND TITLES / REGISTRY DIVISION
THUNDER BAY

Ministry of Natural Resources Land Management Branch
 Ontario

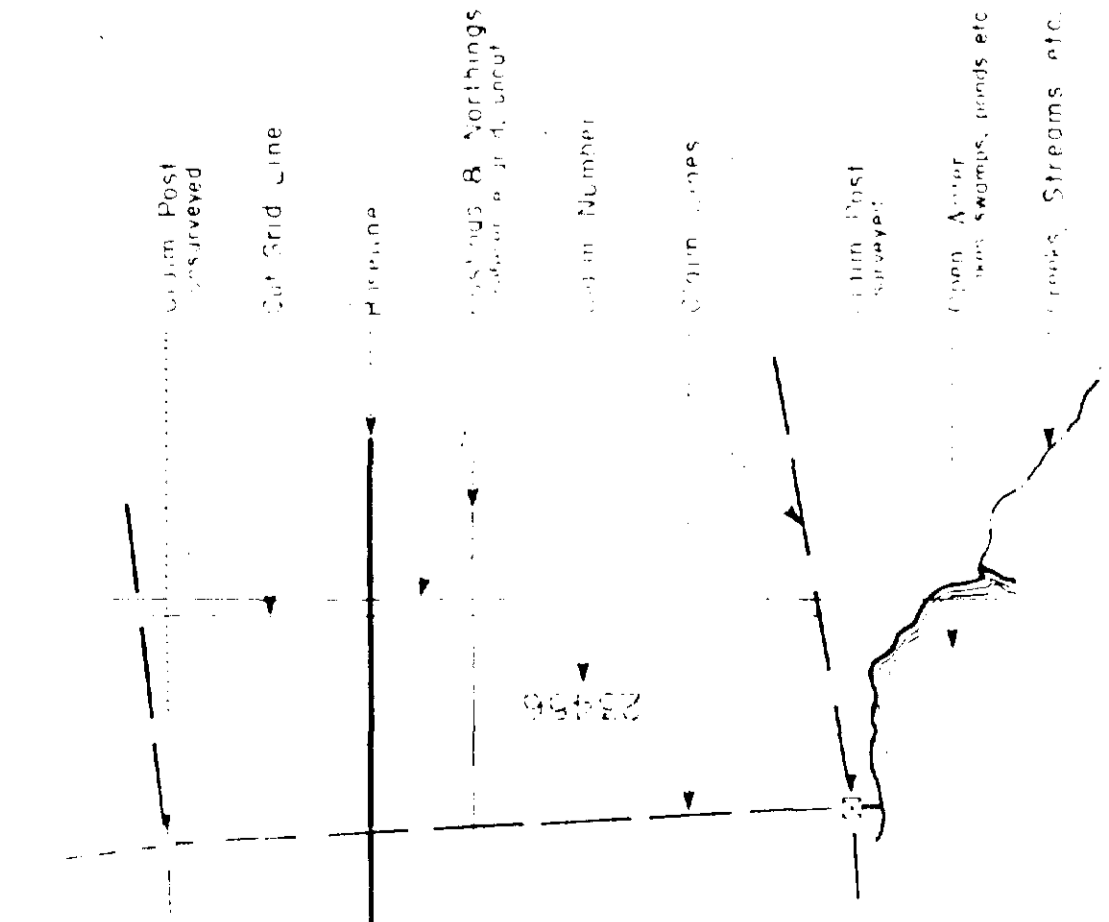
NOVEMBER 5, 1987
 Date: AUGUST, 1984
 Number: **G-3172**

March 21, 1988
 3173





REFERENCE MAP



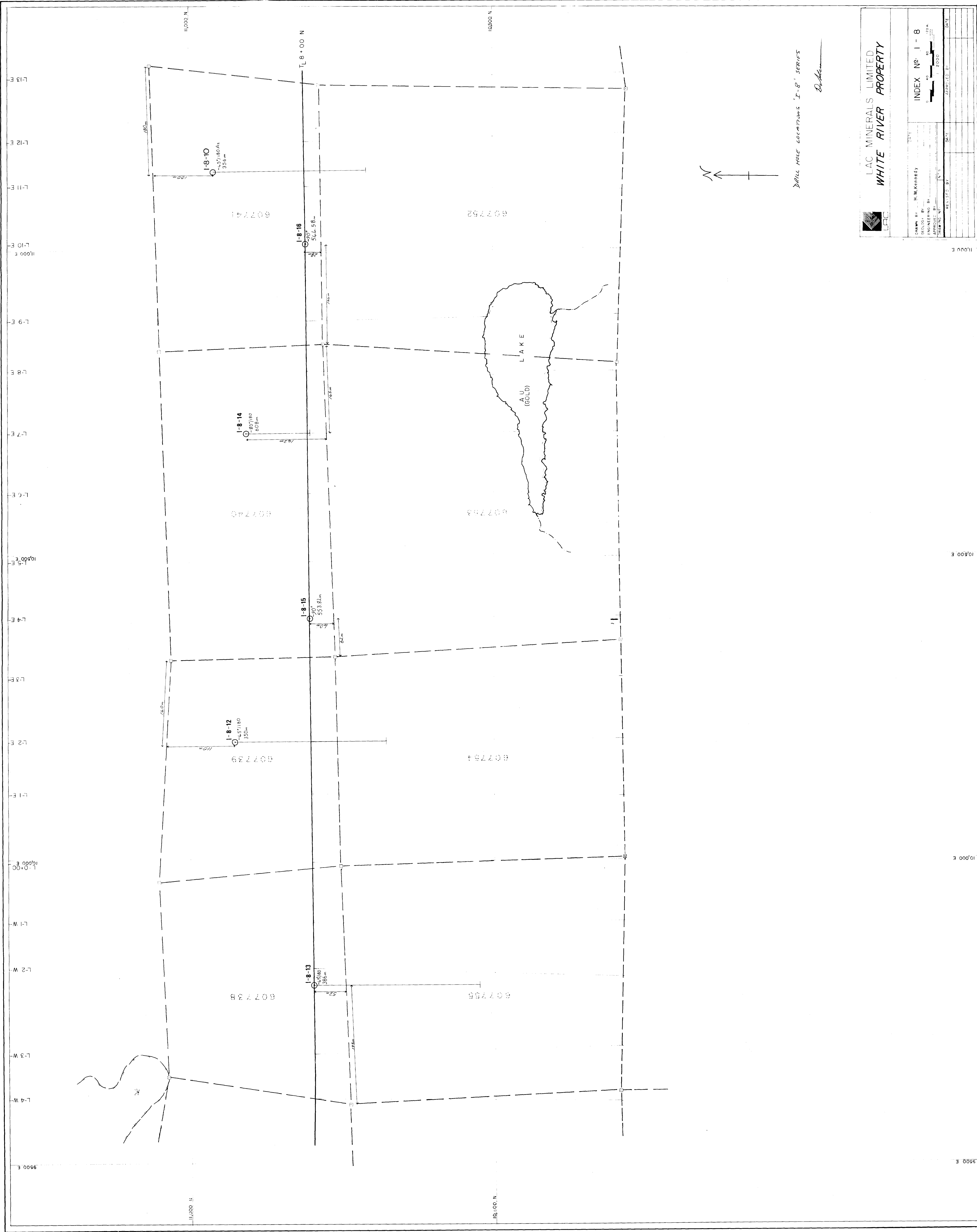
LAC MINERALS LIMITED
WHITE RIVER PROPERTY

DATE: _____
 DRAWN BY: H.M. KENNEDY
 CHECKED BY: _____
 ENGINEERING BY: _____
 APPROVED BY: _____
 DRAWING NO: 1-10-10

INDEX No. 1-10

DATE: _____
 REVISED BY: _____
 DATE: _____

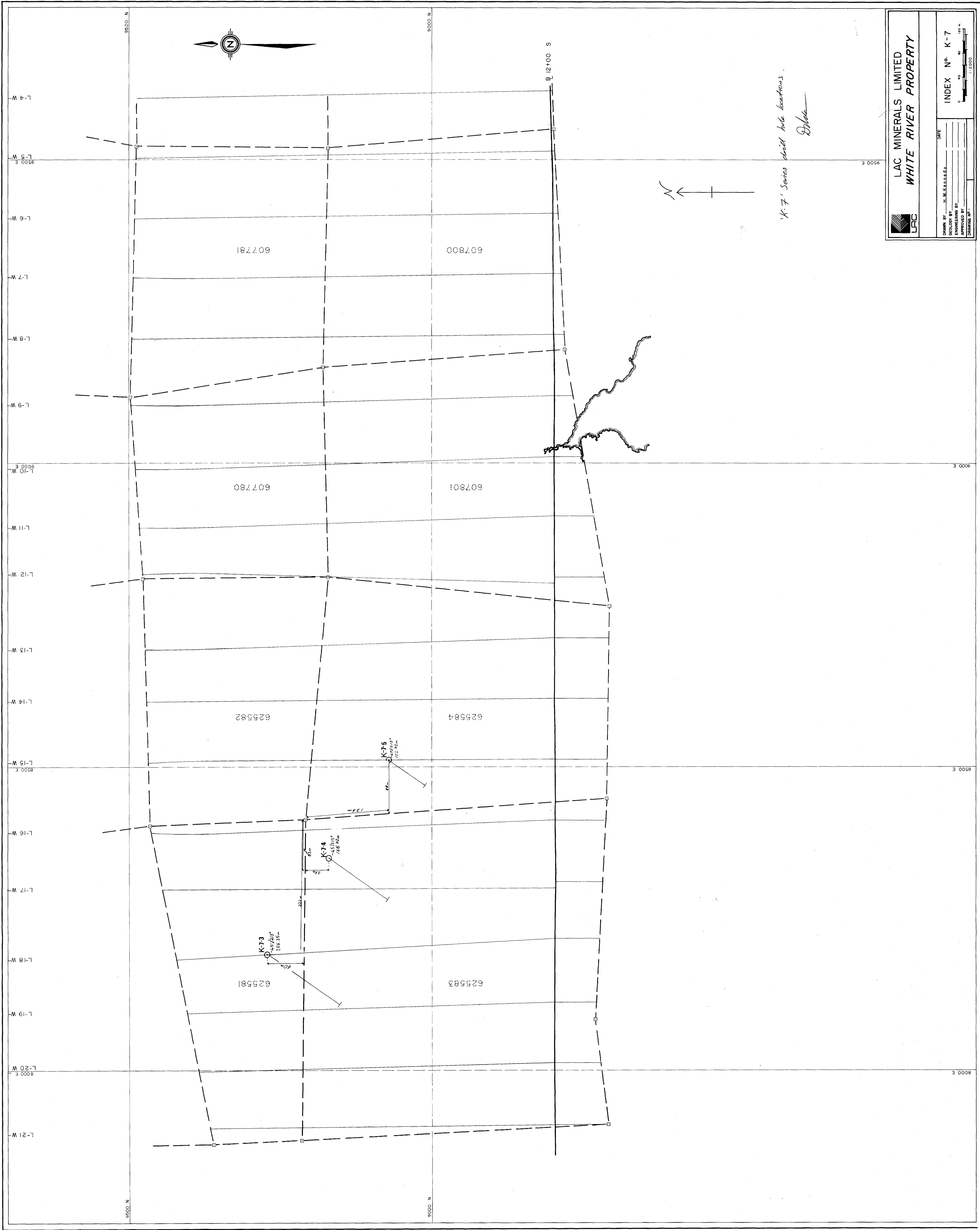





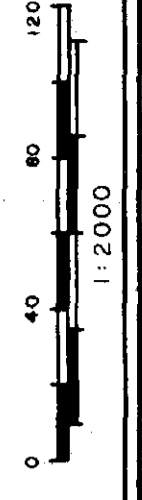
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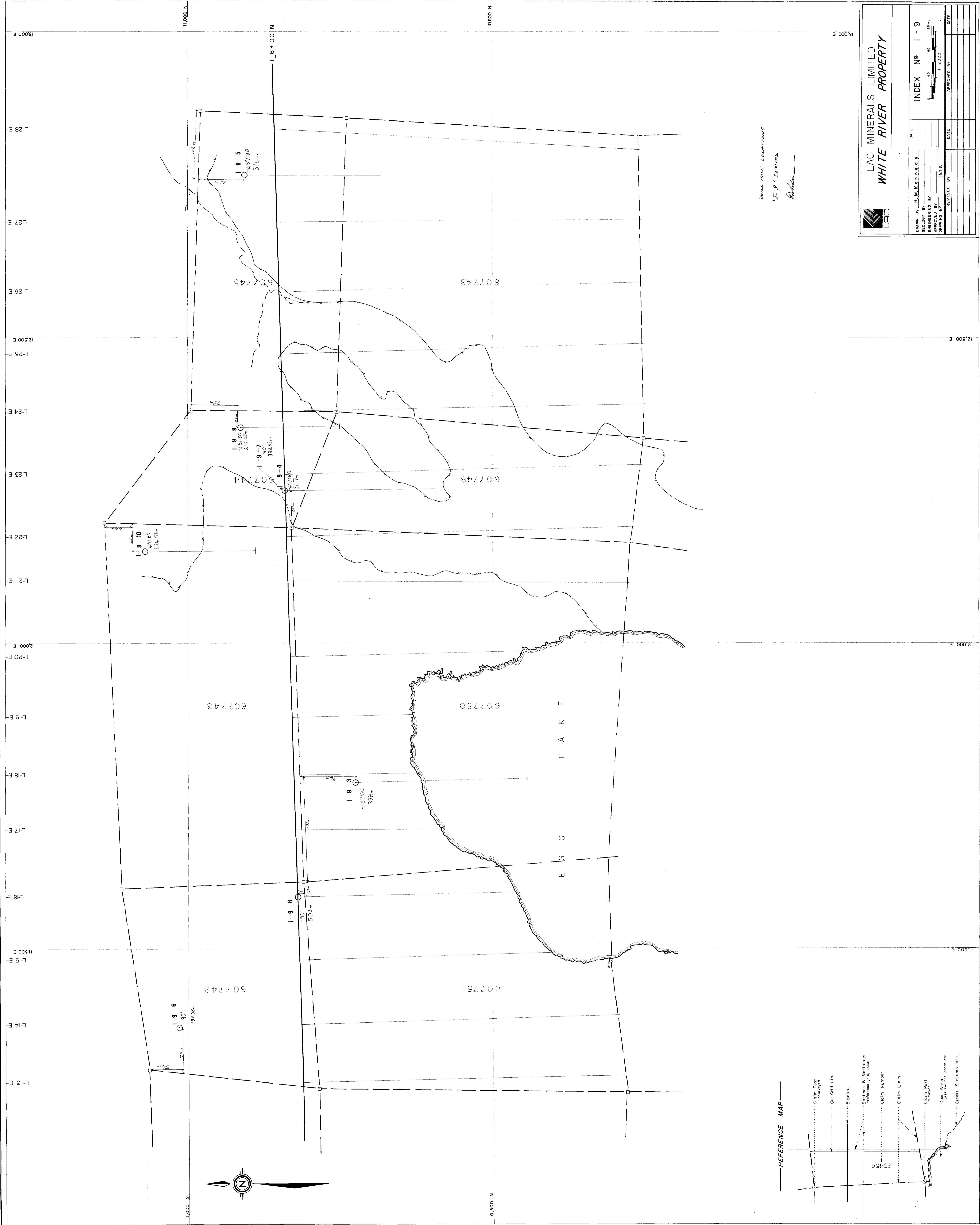
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DRILL HOLE LOCATIONS 'I-8' SERIES
D. Kelly



K-7 Series shield hole locations
D. White

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DRAWN BY H. M. ALLEN	DATE
CHECKED BY	INDEX NO. K-7
APPROVED BY	
DRAWING NO.	

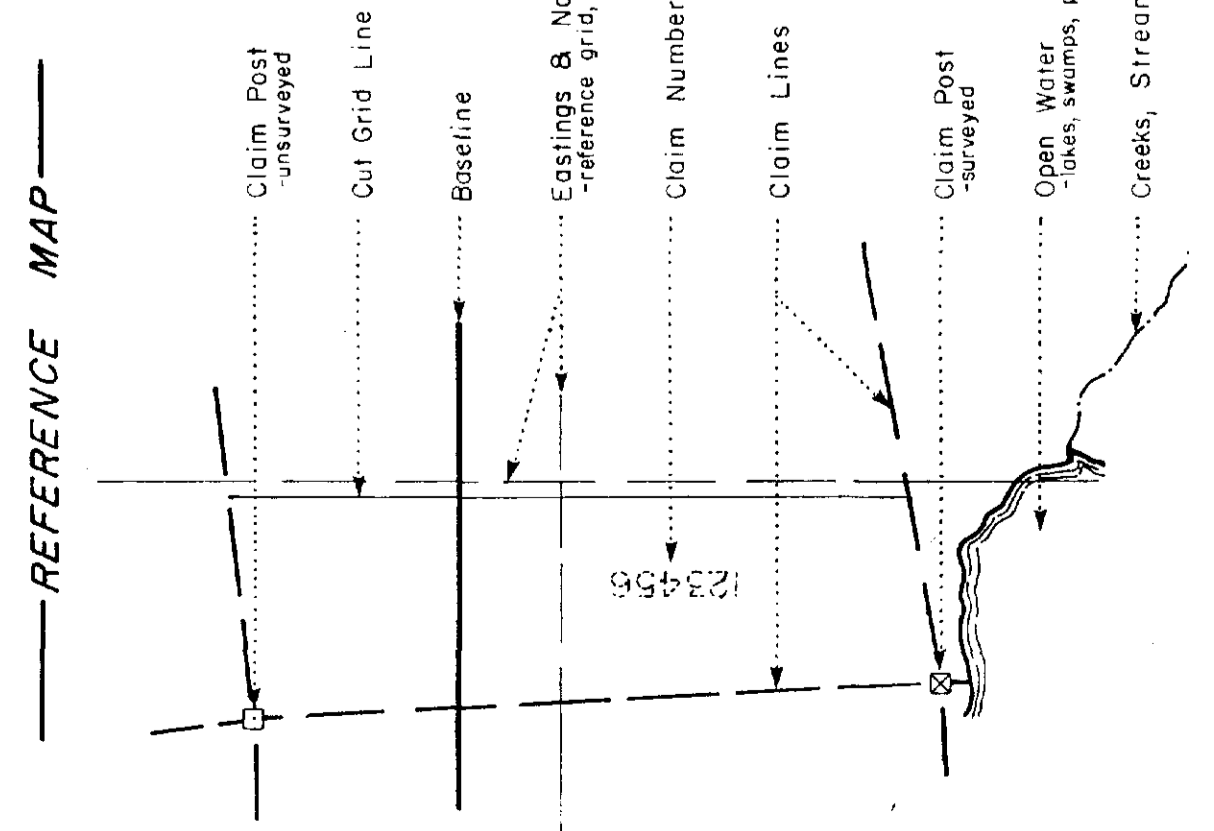


DRILL HOLE LOCATIONS
 'I-9' SERIES
B. Johnson

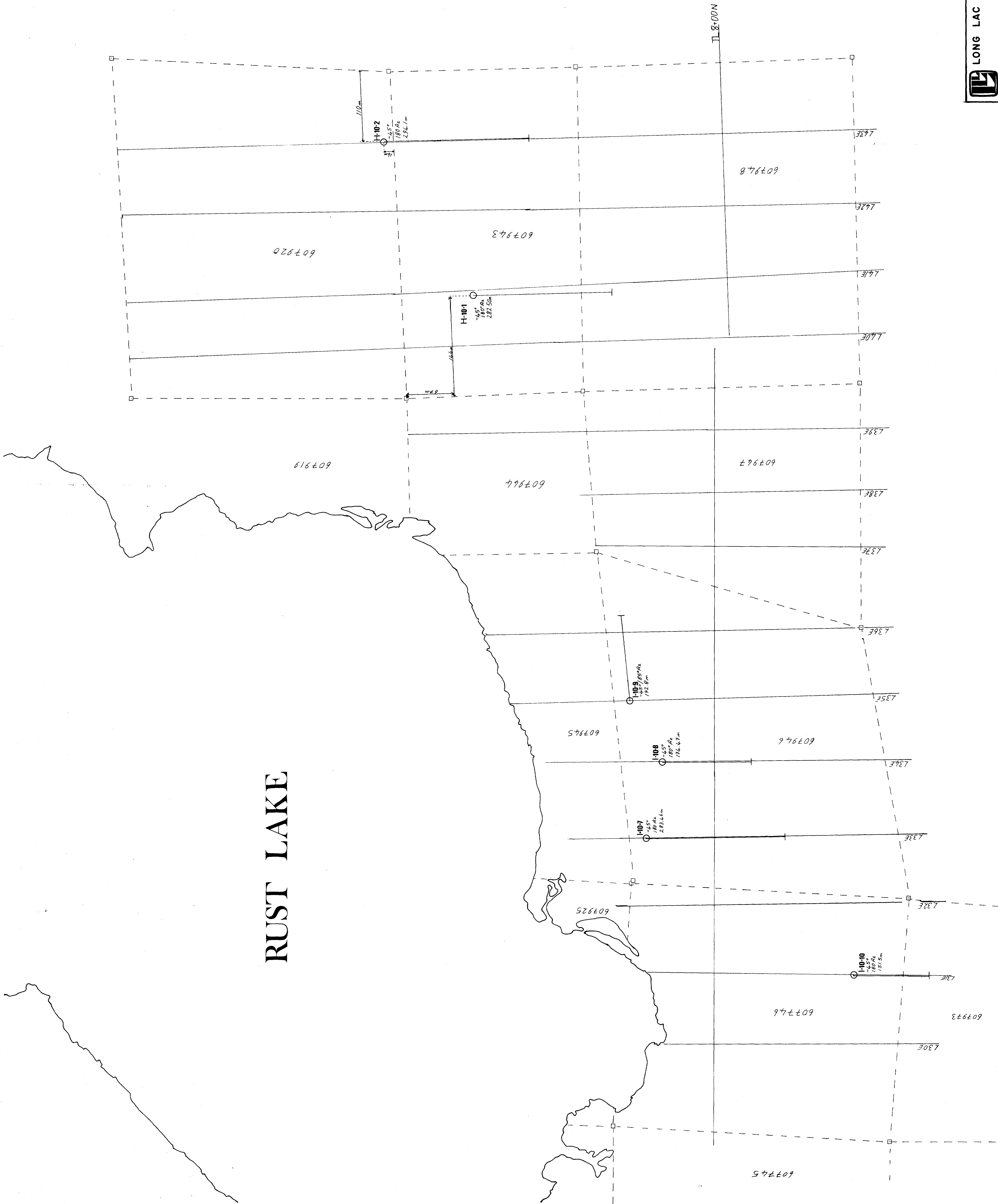
LAC MINERALS LIMITED
WHITE RIVER PROPERTY

INDEX No. 1-9

DATE: _____
 DRAWN BY: H.M.K.E.D.D.Y.
 GEOMETRY BY: _____
 APPROVED BY: _____
 DRAWING NO.: _____
 REVISED BY: _____
 DATE: _____



RUST LAKE



I-10
H-10 AREAS

LONG LAC MINERAL EXPLORATION LTD.

DATE: 21/04/2011

DRAWN BY: D.W.D.

ENGINEERING BY: [Signature]

APPROVED BY: [Signature]

DRAWING NO: 1-2,000

REMARKS: [Blank]

SCALE: 1:2,000



250

ALTAIR