60001285

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud Drill Hole File - Hole No. RE-50
AUTHOR	K. Kenner; R. Grondin; N. Brewer
DATE OF DOC(S)	1989
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Gusti Corp. Lac Minerals (USA) Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 510' handwritten notes NOTE: scan notes on front of folder 17p.

Keep docs at about 250 pages if no oversized maps attached
(for every 1 oversized page (>11x17) with text reduce
the amount of pages by ~25)

SS: DD 5/19/08
Initials Date
DB: MAH
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

DRILL LOGS RE-50
Rosebud

60001285 4010

0-130 Pink porphyry/Andesite?/Bmb?

130-215 Bmb

215-245 UMRO/FLT

245-385 Pink-Lt Green MMES AT w/min by

385-410 PMBX

410-465 HEM MBX

465-510TD - TOS

60001285

LAC MINERALS (U.S.A.) INC.

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RE-50 TOTAL DEPTH 510 LOGGED BY KLK

Date started Nov. 10, 1989 2:40 pm

Date completed Nov. 11 3:35 pm

Initial bearing

Initial inclination (-90°) vertical

Elevation 5232.3

Collar coordinates:

N 2203528.0

E 481156.9

Contractor: GUSTIN CORP

Drill Type: RVC-T660H SCHRAMM

Hole Size: Hammer 5½"

Drilling Conditions: GOOD

Footage: Wet / Dry DRY: 0'-155'

WET: 155'-510'

Comments: in clay & lt bud - sampling required straining thick clay mud, no other problems

last 40' H2O pressure @ ~ 350 psi took 9 min/5' hole similar to RE-9 no significant mineralized zone.

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)

LAC MINERALS (U.S.A.) INC.

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RE-50 TOTAL DEPTH 510' LOGGED BY KLK

Date started 11-10-89 2:40pm

Date completed 11-11-89 3:30pm

Initial bearing

Initial inclination vertical

Elevation ~~5248~~ 5232.3

Collar coordinates:

N ~~2203530~~ 2203528.0

E ~~481174~~ 481156.9

Contractor: GUSTIN CORP.

Drill Type: RVC T660H Schramm

Hole Size: 5 1/4"

Drilling Conditions: good

Footage: Wet / Dry

DRY: 0'-155' WET: 155'-510'

Comments: no problems - smooth drilling similar to RE-9

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	510		-90				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-50 PAGE 1 OF 11

RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
0 POOR	OXIDIZ. BUD 0-75'																		
	0-13' OVERBURDEN						golden orange				tr relict FeOx replace py		<.001		<.10				
5																			
"							"				"		<		<				
10																			
"							"				"		<		<				
15	Bud Breccia 0-75'																		
G OOOO	OXIDIZED 0-75'	✓ ✓	XC																
	weakly mod calcite veinlets	✓ ✓	XK																
	wh to mod. fine, qtz stockwork	✓ ✓					"				"		<		<				
20	mod limonite infill fractures	✓																	
	w/local pervasive FeOx	✓ ✓																	
	wh fine drusy qtz	✓ ✓	XC																
"	wh to mod argillic bleach w/local	✓ ✓	XK				"				"		<		<				
	secondary hbl recrystallization	✓																	
25																			
		✓ ✓	XC																
"		✓ ✓	XK				"				"		<		<				
		✓																	
30																			
		✓ ✓	XC																
"		✓	XK				"				"		<		<				
		✓																	
35																			
		✓	XC																
"		✓ ✓	XK				"				"		<		<				
		✓																	
40																			
		✓ △	XC																
"		✓ ✓	XK				"				"		<		.13				
		✓ △																	
45																			
		✓ △	XC																
"		△ ✓	XK				"				"		<		<				
		✓																	
50																			

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-50 PAGE 2 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
50-	GOOD	OXIDIZED BUD 50-75' CONTINUED 50-55 wk ↑ argillic clay alt	v v v v v v	xc xc				golden tan				tr diss py		<.001		<.10				
55-	"		v v v v v v	xc xc				"				"		<		<				
60-	"	60-75' weak smectite alt ↓ limonite alt wk ↓ bleaching	v v v v v v	xc xc				yellow tan				++% diss py		<		.10				
65-	"		v v v v v v	xc xc				"				"		<		.10				
70-	"		v v v v v v	xc xc				"				"		<		<.10				
75-	"	OX RE BOUNDARY	v v v v v v	xc xc																
80-	"	75-133' 75-80 tr smectite alt gray white mixed fine crystal tuff + epiclastic clast, probable? disinclive bleached ± argillic clay alt + local silicified clasts (calcedonic)		xc				gray white				2-3% bladed py diss py ± marcasite		<		<				
85-	"	intermittent white clay - sbgr w/ floating black mineral + tr sphalerite?		xc				"				"		<		<				
90-	"			xc				"				"		<		<				
95-	"	90-95 strong soft white clay 2nd's taken		xc				"				"		.004		<				
100-	"			xc				"				"		<.001		<				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-50 PAGE 2 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
50	GOOD	50-60' @ above w/ ↑ perv. limonite w/ weak local clay dev'lop w/ assoc limonite mono & fragmental poss Bud or ↓ is phor brecciated		Xc XK				ORG BUFF				>1% limon replac py								
55	"			Xc XK				"				"								
		Ox / RE Boundary																		
60	"	60-73 Mixed tuff and fragmental or just brecciated v. weak perv smectite alt mod strong calcedony veins perv. silicification weak local limonitic (earthy) veins local drusy VNS		Xc				Buff				~1% diss py locally bleached								
65	"			Xc XTT				"				"								
70	"			Xc				"				"								
75	"	73-135 Well bleached grayish to pink grained tuff may be locally fragmental - masked by alteration mod to locally strong white clay alt local pink qtz stockwork						WHITE				2-3% diss tvn py	local bleaching							
80	"							"				"	"							
85	"							"				"	"							
90	"							"				"	"							
95	"							"				"	"							
100																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-50 PAGE 3 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
100	GOOD	133-270 Green Bud 100-133 gray white tuff + epiclastic continued w/ slight ↓ drastic clay alt w/ ↑ calcedonic silicification 2 ras taken		Xc				gray white				2-3% disspy + bladed py ± marcasite		<.001		<.10				
105	"			Xc				"				"		<		.15				
110	"			Xc				"				"		<		.11				
115	"			Xc				"				"		<		<.10				
120	"			Xc				"				"		<		<				
125	"	↑ soft white clay		Xc				"				"		.003		.16				
130	"			Xc				"				"		<.001		<.10				
135	"	133-270 Green Bud Breccia w/ local montmorillonite pervasive white to mod argillic clay alt local weak drusy qtz veins local white clay alt + local calcedonic silicification		Xc				lt green				2-3% diss. py		.001		<				
140	"			Xc				"				"		<.001		<				
145	"			Xc				"				"		.025		.11				
150																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-50 PAGE 4 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
150	GOOD	133-270 Green Bud 150-200 Green Bud continued		xc				Lr green				1% diss py		<.001		<.10				
155	"	but H2O		xc				"				"		.002		.18				
160	"			xc				"				"		.002		<.10				
165	"	160-200 wh & pinkish, intermittent argillaceous silicification plus weak white clay		xc				"				"		.001		<				
170	"			xc				"				"		.001		<				
175	"			xc				"				"		.004		.21				
180	"			xc				"				"		.002		<.10				
185	"			xc				"				"		.015		.12				
190	"			xc				"				"		.001		<.10				
195	"			xc				"				"		.003		<				
200																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-50 PAGE 5 OF 11

	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
200	GOOD	200-270 argillically alt green Bud continued w/ ↑ pyr gray alt ↓ cascadonic silicification		Xc				Lt green				1-2% diss PY		.03		<.10				
205	"			Xc				"				"		.003		<				
210	"			XK Xc				"				"		.003		<				
215	"			~~Xm~~ Xc				"				"		.001		<				
220	"							"				"		.003		<				
225	"							"				"		.004		<				
230	"							"				"		.002		.24				
235	"							"				"		.005		<.10				
240	"			Xc				"				"		.005		<				
245	"			Xc				"				"		.003		<				
250																				

LAC MINERALS U.S.A. INC.

PROJECT: ROSEBUD LOGGED BY: KLK HOLE NO. RE-50 PAGE 6 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
		270-305 Tuff Breccia																		
250	GOOD	250-270 Green Bud - continued with ↑ calcite matrix silicification		Xc				Lt green				1% diss py		<.001		<.10				
255	"			Xc				"				"		<		<				
260	"			Xc				"				"		<		<				
265	"			Xc				"				"		.004		<				
270	"	270-300 Tuff Breccia - pinkish tan lithic lithics up to ±2 stage brecciation weak pervasive silicification weak local smectite alt on Aia weak limonite on tuff matrix fine red orange - ofz stockwork		Xc				PINK TAN				2% diss py		.003		<				
275	"			Xc				"				"		<.001		<				
280	"			Xc				"				"		<		<				
285	"			Xc				"				"		<		<				
290	"			Xc				"				"		<		<				
295	"	2nd's taken		Xc				"				"		<		<				
300																				

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PROJECT: ROSEBUD LOGGED BY: KLK HOLE NO. RE-50 PAGE 7 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ARGILLIC (W M S)	SILICIFICATION (W M S)	PROPYLLITIC (W M S)	COLOR FINES	LIMONITE (W M S)	HEMATITE (W M S)	JAROSITE (W M S)	% SULFIDES	OTHER COMMENTS	Au	Au ✓	Ag	As	Hg	Sb	Se
300	GOOD	305-380 Flowbanded to FGT 300-305 Tuff Breccia - Pink continued		Xc Xc				pink tan				2% diss py		<.001		<.10				
305	"	305-350 Tan to gray tan fine grained to fel. banded tuff weakly silicified bleached pods pervasive silicification or siliceous bedding weak fine hairline qtz stockwork		Xc Xc				Buff				1-2% fine diss py		<		<				
310	"	310-320 - weakly to moderately brecciated		Xc				"				"		.001		<				
315	"			Xc				"				"		<.001		<.10				
320	"			Xc				"				"		.003		<				
325	"			Xc				"				"		<.001		<				
330	"	weak calcite veining		Ca Xc				"				"		<		<				
335	"			Xc				"				±1% diss py		.001		.20				
340	"			Xc				"				"		<.001		<.10				
345	"			Xc				"				"		.005		.15				
350																				

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PROJECT ROSEBUD LOGGED BY KLIC HOLE NO. RE-50 PAGE 8 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
350	GOOD	350-370 dike-intermediate to felsic → locally Δ ated 370-410 PINK+GRN FRAG PYROCL. 350-370 Burnt/dk brown to army green tan felsic to intermediate dike, strong veloca, fine grained, locally brecciated, with fine qtz stockwork	Δ + +	Xk				Tan+ burg burn				tr diss py		<.001		<.10				
355	"		+ +			R		burg burn				"		<		<				
360	"	locally brecciated ∓ silicification	+ Δ +	Xk				dk gray green tan				"		<		<				
365	"	with nonronite alt	+ +	Ca		R		"				"		<		<				
370	"	✓																		
	"	370-410 Red orange to green matrix (pyroclastic) weakly to moderately pervasive clay alt fragmentals are weakly bleached + clay alt weak local calcedonic alt, fine qtz stockwork, weakly calcareous	✓ ✓ ✓ ✓	Xcc Ca				Red Org + Green				1-2% fine diss + bladed py		.001		<				
375	"		✓ ✓ ✓ ✓	Xcc Ca				"				"		<.001		<				
380	"		✓ ✓ ✓ ✓	Xcc Ca				"				"		<		<				
385	"		✓ ✓ ✓ ✓	Xcc Ca				"				"		.007		<				
390	"		✓ ✓ ✓ ✓	Xcc Ca				"				"		.001		<				
395	"		✓ ✓ ✓ ✓	Xcc Ca				"				"		<.001		<				
400		✓																		

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PROJECT: ROSEBUD LOGGED BY: KLIC HOLE NO. RE-50 PAGE 9 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION 410-460	GRAPHIC LOG	GRAPHIC ALTERATION	ARGILLIC W M S	SILICIFICATION W M S	PROPYLLITIC W M S	COLOR FINES	LIMONITE W M S	HEMATITE W M S	JAROSITE W M S	% SULFIDES	OTHER COMMENTS	Au	Au ✓	Ag	As	Hg	Sb	Se
400	GOOD	400-410 Red orange to green matrix, pyroclastics continued	v v v v v v	Xclc Ca				red org + green				1-2% fine diss py		<.001		<.10				
405	"		v v v v v v	Xclc Ca				"				"		<		<				
410	"	410-460 Red Brown matrix pyroclastics of possible volcaniclastics? subrounded to rounded clasts pervasively calcareous poss tuffaceous clay alt w local gray frags		Ca				deep orange brown				tr2 local diss py		<		<				
415	"			Ca				"				"		<		<				
420	"			Ca				"				"		<		<				
425	"			Ca				"				"		<		<				
430	"			Ca				"				"		<		<				
435	"			Ca				"				"		<		<				
440	"			Ca				"				"		<		<				
445	"			Ca				"				"		<		<				
450																				

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PROJECT: ROSEBUD LOGGED BY: KLIC HOLE NO. RE-50 PAGE 10 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
		460-510 green pyroclastic																		
450	GOOD	450-460 volcaniclastic continued																		
				Ca				dkp purple brown				tr diss py		<.001		<.10				
455	"			Ca				"				"		<		<				
460	"	460-510 P. predominantly green w/ 460-495 w/ weak orange matrix coloration pervasive argillic clay alt locally frags are bleached pervasively calcareous poss chlorite alt weak local fine grain str. stockwork local interbedded FGT						wh lt green				±1% fine diss py		<		<				
465	"							"				"		<		<				
470	"			XK				"				"		<		<				
475	"							"				"		<		<				
480	"			XK				"				"		<		<				
485	"	485-495 ↑ nontronite alt						"				"		<		<				
490	"			XK				"				"		<		<				
495	"			XK				"				"		<		<				
500																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-50 PAGE 11 OF 11

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
500	GOOD	500-510 green pyroclastic w/ wk ↑ argillic clay = bleaching	✓ ✓ ✓ ✓ ✓ ✓	xc				Lt green				±1% fine diss py		<.001		.12				
505	"		✓ ✓ ✓ ✓ ✓ ✓	xc				"				"		<		<				
510		TD																		
515																				
520																				
525																				
530																				
535																				
540																				
545																				
550																				

G51 5985
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	Sample I.D.			Au o/t	Ag o/t
81	SAMPLE: RD-49	400	405	<.001	<.10
82	SAMPLE: RD-49	405	410	<.001	<.10
83	SAMPLE: RD-49	410	415	<.001	<.10
84	SAMPLE: RD-49	415	420	<.001	<.10
85	SAMPLE: RD-49	420	425	<.001	<.10
86	SAMPLE: RD-49	425	430	<.001	<.10
87	SAMPLE: RD-49	430	435	<.001	<.10
88	SAMPLE: RD-49	435	440	<.001	<.10
89	SAMPLE: RD-49	440	445	<.001	<.10
90	SAMPLE: RD-49	445	450	<.001	<.10
91	SAMPLE: RD-49	450	455	<.001	0.30
92	SAMPLE: RD-49	455	460	0.005	<.10
93	SAMPLE: RD-49	460	465	0.006	0.16
94	SAMPLE: RD-49	465	470	0.005	0.29
95	SAMPLE: RD-49	470	475	0.003	0.24
96	SAMPLE: RD-49	475	480	0.004	0.16
97	SAMPLE: RD-49	480	485	0.004	0.32
98	SAMPLE: RD-49	485	490	0.003	<.10
99	SAMPLE: RD-49	490	495	0.006	0.18
100	SAMPLE: RD-49	495	500	0.003	0.17
101	SAMPLE: RD-49	500	505	0.010	0.14
102	SAMPLE: RD-49	505	510	0.003	<.10
103	SAMPLE: RD-49	510	515	0.004	0.12
104	SAMPLE: RD-49	515	520	0.002	0.10
105	SAMPLE: RD-49	520	525	0.003	<.10
106	SAMPLE: RD-49	525	530	0.001	0.11
107	SAMPLE: RD-49	530	535	0.001	0.10
108	SAMPLE: RD-49	535	540	<.001	<.10
109	SAMPLE: RD-49	540	545	<.001	<.10
110	SAMPLE: RD-50	0	5	<.001	<.10
111	SAMPLE: RD-50	5	10	<.001	<.10
112	SAMPLE: RD-50	10	15	<.001	<.10
113	SAMPLE: RD-50	15	20	<.001	<.10
114	SAMPLE: RD-50	20	25	<.001	<.10
115	SAMPLE: RD-50	25	30	<.001	<.10
116	SAMPLE: RD-50	30	35	<.001	<.10
117	SAMPLE: RD-50	35	40	<.001	<.10
118	SAMPLE: RD-50	40	45	<.001	0.13
119	SAMPLE: RD-50	45	50	<.001	<.10
120	SAMPLE: RD-50	50	55	<.001	<.10
121	SAMPLE: RD-50	55	60	<.001	<.10
122	SAMPLE: RD-50	60	65	<.001	0.10
123	SAMPLE: RD-50	65	70	<.001	0.10
124	SAMPLE: RD-50	70	75	<.001	<.10
125	SAMPLE: RD-50	75	80	<.001	<.10
126	SAMPLE: RD-50	80	85	<.001	<.10
127	SAMPLE: RD-50	85	90	<.001	<.10

Sample I.D.					Au o/t	Ag o/t
128	SAMPLE:	RD-50	90	95	0.004	<.10
129	SAMPLE:	RD-50	95	100	<.001	<.10
130	SAMPLE:	RD-50	100	105	<.001	<.10
131	SAMPLE:	RD-50	105	110	<.001	0.15
132	SAMPLE:	RD-50	110	115	<.001	0.11
133	SAMPLE:	RD-50	115	120	<.001	<.10
134	SAMPLE:	RD-50	120	125	<.001	<.10
135	SAMPLE:	RD-50	125	130	0.003	0.16
136	SAMPLE:	RD-50	130	135	<.001	<.10
137	SAMPLE:	RD-50	135	140	0.001	<.10
138	SAMPLE:	RD-50	140	145	<.001	<.10
139	SAMPLE:	RD-50	145	150	0.025	0.11
140	SAMPLE:	RD-50	150	155	<.001	<.10

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This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

NEVADA GSI
GEOCHEMICAL SERVICES, INC.

GEOCHEMICAL ANALYSIS REPORT

December 14, 1989

Mr. Nate Brewer
Lac Minerals
1395 Greg Street #107
Sparks, Nv. 89431

Number of Samples: 173
Project: URBD-79014
GSI Number: 5990
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	SAMPLE: RE-50	155	160	0.002	0.18
2	SAMPLE: RE-50	160	165	0.002	<.10
3	SAMPLE: RE-50	165	170	0.001	<.10
4	SAMPLE: RE-50	170	175	0.001	<.10
5	SAMPLE: RE-50	175	180	0.004	0.21
6	SAMPLE: RE-50	180	185	0.002	<.10
7	SAMPLE: RE-50	185	190	0.015	0.12
8	SAMPLE: RE-50	190	195	0.001	<.10
9	SAMPLE: RE-50	195	200	0.003	<.10
10	SAMPLE: RE-50	200	205	0.030	<.10
11	SAMPLE: RE-50	205	210	0.003	<.10
12	SAMPLE: RE-50	210	215	0.003	<.10
13	SAMPLE: RE-50	215	220	0.001	<.10
14	SAMPLE: RE-50	220	225	0.003	<.10
15	SAMPLE: RE-50	225	230	0.004	<.10
16	SAMPLE: RE-50	230	235	0.002	0.24
17	SAMPLE: RE-50	235	240	0.005	<.10
18	SAMPLE: RE-50	240	245	0.005	<.10
19	SAMPLE: RE-50	245	250	0.003	<.10
20	SAMPLE: RE-50	250	255	<.001	<.10
21	SAMPLE: RE-50	255	260	<.001	<.10
22	SAMPLE: RE-50	260	265	<.001	<.10
23	SAMPLE: RE-50	265	270	0.004	<.10
24	SAMPLE: RE-50	270	275	0.003	<.10
25	SAMPLE: RE-50	275	280	<.001	<.10
26	SAMPLE: RE-50	280	285	<.001	<.10
27	SAMPLE: RE-50	285	290	<.001	<.10
28	SAMPLE: RE-50	290	295	<.001	<.10
29	SAMPLE: RE-50	295	300	<.001	<.10
30	SAMPLE: RE-50	300	305	<.001	<.10
31	SAMPLE: RE-50	305	310	<.001	<.10
32	SAMPLE: RE-50	310	315	0.001	<.10

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	Sample I.D.			Au o/t	Ag o/t
33	SAMPLE:	RE-50	315	320	<.001	<.10
34	SAMPLE:	RE-50	320	325	0.003	<.10
35	SAMPLE:	RE-50	325	330	<.001	<.10
36	SAMPLE:	RE-50	330	335	<.001	<.10
37	SAMPLE:	RE-50	335	340	0.001	0.20
38	SAMPLE:	RE-50	340	345	<.001	<.10
39	SAMPLE:	RE-50	345	350	0.005	0.15
40	SAMPLE:	RE-50	350	355	<.001	<.10
41	SAMPLE:	RE-50	355	360	<.001	<.10
42	SAMPLE:	RE-50	360	365	<.001	<.10
43	SAMPLE:	RE-50	365	370	<.001	<.10
44	SAMPLE:	RE-50	370	375	0.001	<.10
45	SAMPLE:	RE-50	375	380	<.001	<.10
46	SAMPLE:	RE-50	380	385	<.001	<.10
47	SAMPLE:	RE-50	385	390	0.007	<.10
48	SAMPLE:	RE-50	390	395	0.001	<.10
49	SAMPLE:	RE-50	395	400	<.001	<.10
50	SAMPLE:	RE-50	400	405	<.001	<.10
51	SAMPLE:	RE-50	405	410	<.001	<.10
52	SAMPLE:	RE-50	410	415	<.001	<.10
53	SAMPLE:	RE-50	415	420	<.001	<.10
54	SAMPLE:	RE-50	420	425	<.001	<.10
55	SAMPLE:	RE-50	425	430	<.001	<.10
56	SAMPLE:	RE-50	430	435	<.001	<.10
57	SAMPLE:	RE-50	435	440	<.001	<.10
58	SAMPLE:	RE-50	440	445	<.001	<.10
59	SAMPLE:	RE-50	445	450	<.001	<.10
60	SAMPLE:	RE-50	450	455	<.001	<.10
61	SAMPLE:	RE-50	455	460	<.001	<.10
62	SAMPLE:	RE-50	460	465	<.001	<.10
63	SAMPLE:	RE-50	465	470	<.001	<.10
64	SAMPLE:	RE-50	470	475	<.001	<.10
65	SAMPLE:	RE-50	475	480	<.001	<.10
66	SAMPLE:	RE-50	480	485	<.001	<.10
67	SAMPLE:	RE-50	485	490	<.001	<.10
68	SAMPLE:	RE-50	490	495	<.001	<.10
69	SAMPLE:	RE-50	495	500	<.001	<.10
70	SAMPLE:	RE-50	500	505	<.001	0.12
71	SAMPLE:	RE-50	505	510	<.001	<.10
72	SAMPLE:	RE-51	0	5	0.001	<.10
73	SAMPLE:	RE-51	5	10	0.001	0.30
74	SAMPLE:	RE-51	10	15	0.001	0.16
75	SAMPLE:	RE-51	15	20	0.001	0.13
76	SAMPLE:	RE-51	20	25	<.001	<.10
77	SAMPLE:	RE-51	25	30	<.001	<.10
78	SAMPLE:	RE-51	30	35	0.001	0.21
79	SAMPLE:	RE-51	35	40	0.001	<.10
80	SAMPLE:	RE-51	40	45	0.001	<.10
81	SAMPLE:	RE-51	45	50	0.001	0.18