60001662

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. RL-284
AUTHOR	T Kuhl; V. Peterson
DATE OF DOC(S)	1992
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Lac Minerals (USA) Inc; South East Target Barringer Laboratories, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 585' handwritten notes 14p. 16

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 6/3/08
Initials Date
DB: MAB
Initials Date
SCANNED: NV Blue
Initials Date

Revised: 1/22/08

ROSEBUD
DRILL LOG

RL-284
South East Target

60001662 4010

6000 1662

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL284 TOTAL DEPTH ____ LOGGED BY _____

Date started _____

Date completed _____

Initial bearing _____

Initial inclination _____

Elevation _____

Collar coordinates:

N _____

E _____

Contractor: _____

Drill Type: _____

Hole Size: _____

Drilling Conditions: _____

Footage: Wet / Dry _____

Comments: _____

DOWN HOLE SURVEY INFORMATION

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

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

DRILL HOLE RL284

Page 1 of 6

LOGGED BY T.D. Kuhl

FINE-GRAINED TUFF
BEDDED BUD LLT
VOLCANICLASTIC
PORPHYRITIC TUFF
FLOW BANDED TUFF

VEIN TYPES

DRUZY QUARTZ
Xc CHALCEDONIC
XK STOCKWORK
Ca CALCITE
HYDROTHERMAL BRECCIA VNS
Ba BARITE

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH M	BLEACH S	CLAY W	CLAY M	CLAY S	SILIC W	SILIC M	SILIC S	COLOR	% FeOx W	% FeOx M	% FeOx S	% SULF.	COMMENTS		ROD CONN.	Au	Ag	✓
																		0-20 Overburden					
05																							
10																							
15																							
20													Buff					20-25 Burg. Tan fg Volc	5% Qtz Vn frag.				
25																		25-30 Transition contact at 23'					
30													Ltgrn					30-60 Lt Grn clay rich Volc.	1mt on fract. Rare Qtz Vn frags.				
35																							
40																							
45																							
50																							
55																							
60																		60-100 Lt grn to gry grn fg Volc.	5% Imt frags.				
65			Ba																				
70																							
75																							
80																			microvn.				
85																							
90																							
95																			Tr py.				
100																	Tr						

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

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

DRILL HOLE RL284

Page 2 of 6

LOGGED BY T.D. Kuhl

FINE-GRAINED TUFF
BEDDED BUD LLT
VOLCANICLASTIC
PORPHYRITIC TUFF
FLOW BANDED TUFF

VEIN TYPES

DRUZY QUARTZ
Xc CHALCEDONIC
XK STOCKWORK
Ca CALCITE
HYDROTHERMAL BRECCIA VNS
Ba BARITE

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH M	BLEACH S	CLAY W	CLAY M	CLAY S	SILIC W	SILIC M	SILIC S	COLOR	% FeOx W	% FeOx M	% FeOx S	% SULF.	COMMENTS		ROD CONN.	Au	Ag	✓
			XQ										ltmed gry				1	100-140 ltgry fg Volc. m-S SiO2 Alt. 2-10% QVn	5-10% lmt frag.				
105			XQ																				
110			XQ																SiO2 microvning				
115			XQ																				
120			XQ																				
125			XQ XQmc																Gmarc-microvn. Rare diss py				
130			XQ XQmc																Trish Kaol.				
135			XQ XQmc																				
140			XQp										ltgry Flesh				1+2	140 to 165 As Above w/ Subtle flesh Alt. Diss. euh. py (Ag)	Wk Kaol vning microvning SiO2+MRC. Rare lmt.				
145			XQp																				
150			XQp																				
155			XQp																				
160			XQp																				
165			XQ XK XKp										ltgry					165-190 ltgry fg Volc.					
170			XQ XK XKp																Shotgun py				
175			XK XKp																				
180			XK XQ XKp																				
185			XQ XQ																10% QVn.				
190			XQ															190-290 ltgry fg Volc	SiO2 microvning. diss. euh py				
195																			diss euh py				
200																							

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

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

DRILL HOLE RL284

Page 3 of 6

FINE-GRAINED TUFF
BEDDED BUD LLT
VOLCANICLASTIC
PORPHYRITIC TUFF
FLOW BANDED TUFF

VEIN TYPES

DRUZY QUARTZ
Xc CHALCEDONIC
XK STOCKWORK
Ca CALCITE
HYDROTHERMAL BRECCIA VNS
Ba BARITE

LOGGED BY T.D. Kuhl

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH M	BLEACH S	CLAY W	CLAY M	CLAY S	SILIC W	SILIC M	SILIC S	COLOR	% FeOx W	% FeOx M	% FeOx S	% SULF.	COMMENTS		ROD CONN.	Au	Ag	✓
													lt grg					190-290 cont. increasing SiO_2 thru Intervals and Decreasing Arg.	SiO_2 microvning throughout interval				
205																			Diss fg. euh py throughout interv.				
210																		pervasive Alt w/ minor vning.					
215																							
220																							
225																							
230																							
		▷																					
235		▷	Xqm															Increased Vning.	235-290 5-10% Qmc Vning.				
240		▷	Xqm																				
245		▷	Xqm																				
250		▷	Xqm																				
255		▷	Xqm																				
260		▷	Xqm																				
265		▷	Xqm																				
270		▷	Xqm																				
275		▷	Xqm																				
280		▷	Xqm																280-290 U.Stg microvning (S.N.)				
285		▷	Xqp																				
290													Green					290- lt grn fg volc.	Prop. Alt.? Ca Vning				
295																							
300																							

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

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

DRILL HOLE RL284

Page 4 of 6

LOGGED BY T.D. Kuhl

VEIN TYPES

- FINE-GRAINED TUFF
- BEDDED BUD LLT
- VOLCANICLASTIC
- PORPHYRITIC TUFF
- FLOW BANDED TUFF
- DRUZY QUARTZ
- Xc CHALCEDONIC
- Xk STOCKWORK
- Ca CALCITE
- HYDROTHERMAL BRECCIA VNS
- Ba BARITE

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH M	BLEACH S	CLAY W	CLAY M	CLAY S	SILIC W	SILIC M	SILIC S	COLOR	% FeOx W	% FeOx M	% FeOx S	% SULF.	COMMENTS		ROD CONN.	Au	Ag	✓
			Xqp										Gry Grn				1% py	290-420 Grn fg Clay rich Tole.	Hole making ≈25gpm H_2O				
305																							
			Xqm															Diss euh py Zone above QV at 335 more SiO_2 Alt	microvining + 5-10% QPM. Vining				
310																							
			Xqm																minor Kaol. Vining				
315																							
			Xqp																				
320																							
			Xqp																				
325																							
330																							
335			XQ										Wh										
340																							
			XQ																335-350 Qtzvn w/ Rare py				
345																							
			XQ																				
350																							
													Grn					Less vining than interval above QV.					
355			Xq															Alteration controled along versand fracts. (?)	SiO_2 Alt 5% Qp vining				
360																							
																			minor Kaol Vining				
365																							
			Xq																				
370																							
			Xqp																				
375																							
			Xqp																				
380																							
			Xqp																				
385																							
			XQP																				
390																							
			XQ																> Kaol. Vining				
395																							
			XQ																				
400																							

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

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

DRILL HOLE RL284

Page 5 of 6

FINE-GRAINED TUFF
BEDDED BUD LLT
VOLCANICLASTIC
PORPHYRITIC TUFF
FLOW BANDED TUFF

VEIN TYPES

DRUZY QUARTZ
Xc CHALCEDONIC
Xk STOCKWORK
Ca CALCITE
HYDROTHERMAL BRECCIA VNS
Ba BARITE

LOGGED BY T.D. KUHL

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH M	BLEACH S	CLAY W	CLAY M	CLAY S	SILIC W	SILIC M	SILIC S	COLOR	% FeOx W	% FeOx M	% FeOx S	% SULF.	COMMENTS		ROD CONN.	Au	Ag	✓
													Sage Grn										
405																							
			Ka																				
410																							
			Xq																				
415																							
420																		410-475 Lt gry to flesh fg silicified Volc.					
																			~50 gpm				
425																							
													Lt gry to flesh										
430																							
435																							
440																							
445																							
450																							
455																							
460																							
465																							
470																							
475																							
													Sage Green					475-500 Lt gry Grn fg Volc. Mod silic. Alt	Knot. veining				
480																							
485																							
490																							
495																							
500																							

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

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

DRILL HOLE RL284

Page 6 of 6

LOGGED BY T.O. Kuhl

FINE-GRAINED TUFF
BEDDED BUD LLT
VOLCANICLASTIC
PORPHYRITIC TUFF
FLOW BANDED TUFF

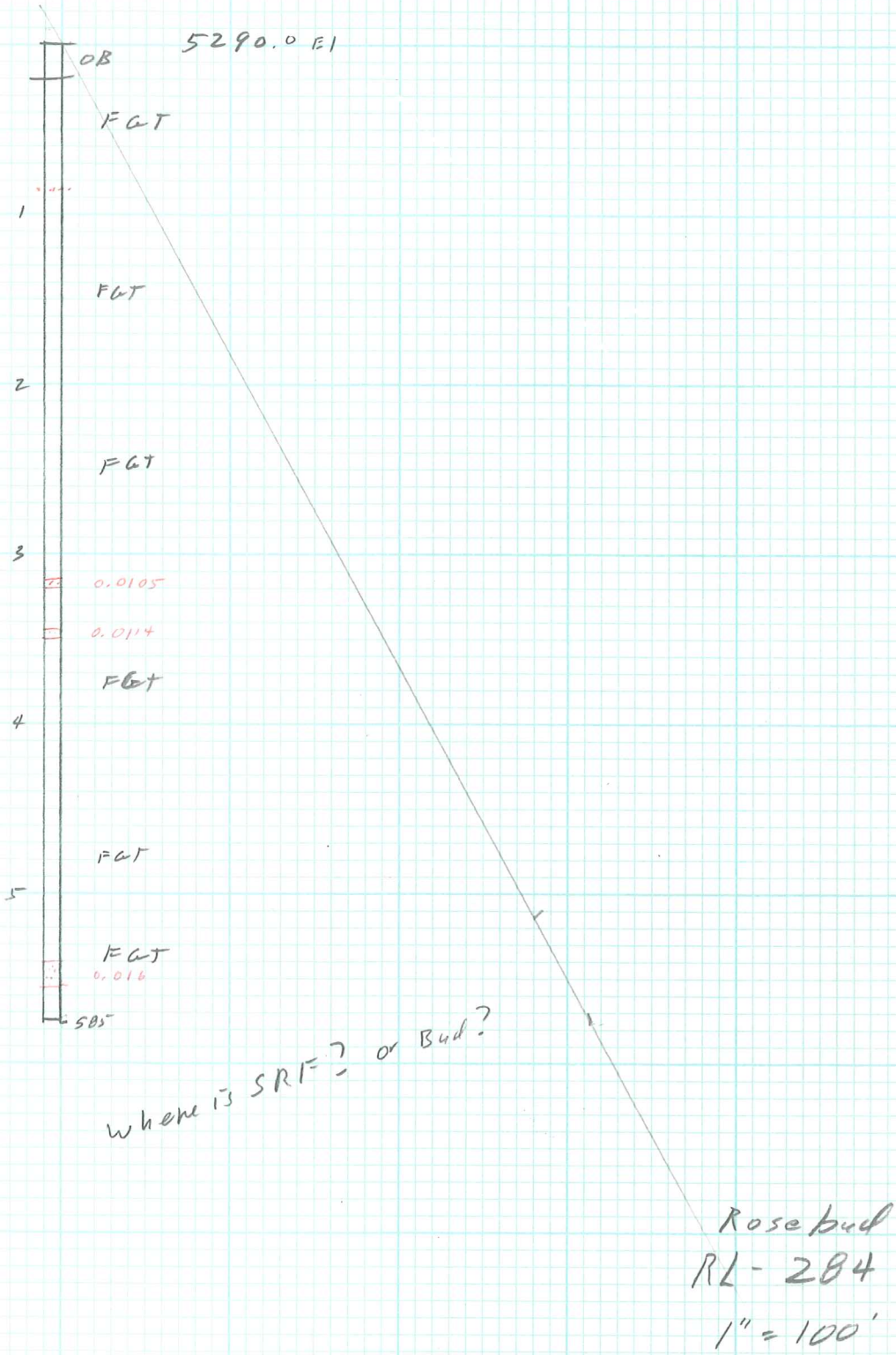
VEIN TYPES

DRUZY QUARTZ
Xc CHALCEDONIC
XK STOCKWORK
Ca CALCITE
HYDROTHERMAL BRECCIA VNS
Ba BARITE

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH M	BLEACH S	CLAY W	CLAY M	CLAY S	SILIC W	SILIC M	SILIC S	COLOR	% FeOx W	% FeOx M	% FeOx S	% SULF.	COMMENTS		ROD CONN.	Au	Ag	✓
																		500 - 585					
505																		Hgry fg Volc.					
																		less SiO2 Alt					
510																		becoming Arg.					
515																		and bleached					
																		at end of					
520																		interval.					
525																			10% downhole contam. at RDD connection				
530																							
35																							
40																							
45																							
50																							
55																							
60																							
65																							
70																							
75																							
80																							
85																		585 TD	7sec./5gal				
90																		Drillrate ≈ 15'/hour.	at TD				
																			7 sec / 5 gal				
95																			@ TD + 20 min				
00																							

NOTE SULFIDES IN COMMENTS: Py Mc Cp Pr Sb

2,203,635 N
482,209 E



where is SRF? or Bud?

Rosebud
RL - 284
1" = 100'

BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5301 LONGLEY LANE
BUILDING E, SUITE 178
RENO, NEVADA 89511
PHONE: (702) 828-1158

26-Oct-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Page: 6
Copy: 1 of 2
Set : 2

Attn: Tim Kuhl
Project: Rosebud

Received: 18-Oct-92 16:51

PO #:

Job: 922780R

Status: Final

Abbreviations:

Parameters:

Au	: Gold
Ag	: Silver

Methods:

FA/AA/AAS	: Fire Assay/AA Finish
FA/AA	: Fire Assay with AA finish
AA	: Atomic Absorption

Units:

oz/ton	: ounces per ton

Quality codes:

<	: less than
MS	: Missing
NA	: Not Analyzed

Job approved by:

Signed: .....

Vernon K. Peterson
Laboratory Manager

BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5301 LONGLEY LANE
BUILDING E, SUITE 178
RENO, NEVADA 89511
PHONE: (702) 828-1158

26-Oct-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 18-Oct-92 16:51

Job: 922780R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL284 0 5	MS	MS	MS
BL-114	0.0221	NA	NA
RL284 5 10	0.0009	0.0008	0.006
RL284 10 15	0.0007	NA	0.009
RL284 15 20	0.0011	NA	0.012
RL284 20 25	0.0013	NA	0.015
RL284 25 30	0.0038	NA	0.018
RL284 30 35	0.0011	NA	0.018
RL284 35 40	0.0025	NA	0.029
RL284 40 45	0.0012	NA	0.015
RL284 45 50	0.0010	NA	0.020
RL284 50 55	0.0030	NA	0.032
RL284 55 60	0.0018	NA	0.015
RL284 60 65	0.0024	NA	0.035
RL284 65 70	0.0019	NA	0.018
RL284 70 75	0.0014	NA	0.044
RL284 75 80	0.0019	NA	0.041
RL284 80 85	0.0053	NA	0.053
RL284 85 90	0.0123	0.0111	0.050
BL-115	0.2490	NA	NA
RL284 90 95	0.0038	NA	0.050
RL284 95 100	0.0036	NA	0.061
RL284 100 105	0.0097	NA	0.061
RL284 105 110	0.0024	NA	0.053
RL284 110 115	0.0027	NA	0.064
RL284 115 120	0.0031	NA	0.085
RL284 120 125	0.0071	NA	0.047
RL284 125 130	0.0024	NA	0.047
RL284 130 135	0.0026	NA	0.041
RL284 135 140	0.0082	NA	0.038

BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5301 LONGLEY LANE
BUILDING E, SUITE 178
RENO, NEVADA 89511
PHONE: (702) 828-1158

26-Oct-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 18-Oct-92 16:51

Job: 922780R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL284 140 145	0.0025	NA	0.064
RL284 145 150	0.0029	NA	0.067
RL284 150 155	0.0018	NA	0.047
RL284 155 160	0.0025	NA	0.058
RL284 160 165	0.0046	NA	0.047
RL284 165 170	0.0023	NA	0.053
RL284 170 175	0.0037	0.0035	0.050
BL-116	0.0536	NA	NA
RL284 175 180	0.0036	NA	0.108
RL284 180 185	0.0042	NA	0.117
RL284 185 190	0.0048	0.0059	0.064
RL284 190 195	0.0053	NA	0.073
RL284 195 200	0.0032	NA	0.064
RL284 200 205	0.0063	NA	0.067
RL284 205 210	0.0024	NA	0.073
RL284 210 215	0.0032	NA	0.079
RL284 215 220	0.0026	NA	0.064
RL284 220 225	0.0027	NA	0.079
RL284 225 230	0.0034	NA	0.064
RL284 230 235	0.0028	NA	0.076
RL284 235 240	0.0031	NA	0.085
RL284 240 245	0.0026	NA	0.070
RL284 245 250	0.0072	NA	0.102
RL284 250 255	0.0054	NA	0.073
RL284 255 260	0.0079	0.0073	0.067
BL-117	0.0512	NA	NA
RL284 260 265	0.0029	NA	0.055
RL284 265 270	0.0035	NA	0.061
RL284 270 275	0.0022	NA	0.058
RL284 275 280	0.0035	NA	0.055

BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5301 LONGLEY LANE
BUILDING E, SUITE 178
RENO, NEVADA 89511
PHONE: (702) 828-1158

26-Oct-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Page: 3
Copy: 1 of 2
Set : 1

Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 18-Oct-92 16:51

Job: 922780R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL284 280 285	0.0018	NA	0.044
RL284 285 290	0.0042	NA	0.085
RL284 290 295	0.0067	NA	0.114
RL284 295 300	0.0027	NA	0.070
RL284 300 305	0.0033	NA	0.073
RL284 305 310	0.0079	NA	0.076
RL284 310 315	0.0025	NA	0.070
RL284 315 320	0.0105	NA	0.076
RL284 320 325	0.0020	NA	0.055
RL284 325 330	0.0021	NA	0.053
RL284 330 335	0.0016	NA	0.044
RL284 335 340	0.0077	NA	0.053
RL284 340 345	0.0037	0.0034	0.041
BL-118	<0.0001	NA	NA
RL284 345 350	0.0114	0.0128	0.096
RL284 350 355	0.0029	NA	0.061
RL284 355 360	0.0040	NA	0.085
RL284 360 365	0.0037	NA	0.093
RL284 365 370	0.0023	NA	0.061
RL284 370 375	0.0029	NA	0.050
RL284 375 380	0.0032	NA	0.091
RL284 380 385	0.0066	NA	0.099
RL284 385 390	0.0016	NA	0.038
RL284 390 395	0.0049	NA	0.088
RL284 395 400	0.0036	NA	0.055
RL284 400 405	0.0035	NA	0.178
RL284 405 410	0.0023	NA	0.073
RL284 410 415	0.0027	NA	0.061
RL284 415 420	0.0022	NA	0.041
RL284 420 425	0.0030	NA	0.654

BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5301 LONGLEY LANE
BUILDING E, SUITE 178
RENO, NEVADA 89511
PHONE: (702) 828-1158

26-Oct-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 18-Oct-92 16:51

Job: 922780R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL284 425 430	0.0025	0.0025	0.356
BL-119	0.0250	NA	NA
RL294 430 435	0.0016	NA	0.117
RL294 435 440	0.0018	NA	0.076
RL294 440 445	0.0022	NA	0.184
RL294 445 450	0.0020	NA	0.055
RL294 450 455	0.0019	NA	0.044
RL294 455 460	0.0018	NA	0.047
RL294 460 465	0.0018	NA	0.047
RL294 465 470	0.0015	NA	0.058
RL294 470 475	0.0022	NA	0.055
RL294 475 480	0.0017	NA	0.055
RL294 480 485	0.0010	NA	0.055
RL294 485 490	0.0008	NA	0.032
RL294 490 495	0.0011	NA	0.038
RL294 495 500	0.0033	NA	0.064
RL294 500 505	0.0049	NA	0.088
RL294 505 510	0.0063	NA	0.102
RL294 510 515	0.0088	0.0087	0.091
BL-120	0.0517	NA	NA
RL284 515 520	0.0223	NA	0.102
RL284 520 525	0.0062	NA	0.067
RL284 525 530	0.0036	NA	0.050
RL284 530 535	0.0039	NA	0.041
RL284 535 540	0.0077	NA	0.035
RL284 540 545	0.0163	NA	0.055
RL284 545 550	0.0199	NA	0.055
RL284 550 555	0.0302	0.0330	0.064
RL284 555 560	0.0054	NA	0.026
RL284 560 565	0.0039	NA	0.020

BARRINGER LABORATORIES INC.

15000 W. 6TH AVE., SUITE 300
GOLDEN, COLORADO 80401
PHONE: (303) 277-1687

5301 LONGLEY LANE
BUILDING E. SUITE 178
RENO, NEVADA 89511
PHONE: (702) 828-1158

26-Oct-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 18-Oct-92 16:51

Job: 922780R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL284 565 570	0.0021	NA	0.020
RL284 570 575	0.0027	NA	0.020
RL284 575 580	0.0015	NA	0.012
RL284 580 585	0.0030	NA	0.023
RL275 690 695	0.0072	NA	0.044