60001638

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-260
AUTHOR	R. Stoeberi; T. Kuhl; V. Peterson; K. Kenner
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; Stevens Drilling Lac Minerals (USA) Inc Barringer Laboratories, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 800' handwritten notes ~~38~~ p. 40

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: mah
Initials Date
SCANNED: NV Blue
Initials Date

Revised: 1/22/08

DRILL LOG RL-260
Rosebud

60001638 4010

60001638

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL 260 TOTAL DEPTH 800' LOGGED BY RKS

Date started 4/7/92

Date completed 4/9/92

Initial bearing —

Initial inclination -90°

Elevation

Collar coordinates:

N

E

Contractor: Stevens

Drill Type: RC

Hole Size: 5¼

Drilling Conditions:

Footage: Wet / Dry 0 - 105 Dry

105 - 800 Wet

Comments: Good looking Rx from the top down to 400 ft; seen Barite down at 385 ft.

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 RL-260

Page 1 of 8

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 _____

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.	Ag	Au	✓
	Qal												Brn org pm-fed Yllw					Qal start 7:00 am		.01	.001	
05																				.01	<	
10																				.01	<	
15																				<	<	
20																			X	<	.002	
25																				.02	<	
30													Yllw org Ag-Yllw				0	Very strg clay alt tuff; protolith unknown		.01	.001	
35																				.02	.005	
40																		Stop at 8:30 am to weld air line on top head ½ hr 9:00 am – build casing Ream hole for casing 9:30 am Drilling at 12:15 pm	X	.05	.023	.024
45																				.05	.001	
50																				.02	.001	
55													Yllw org lt Grey				.5	ox 1st sign of sulf [Redox] sulf		.03	<	
60													lt Grey						X	.02	.001	
65													lt Grey Brn-org					mod sltd (Brn-org clay contam)		.25	.005	.007
70			XK															wk sltd		.06	.003	
75			XK										lt Grey Grey wht					trace XK		.05	.003	
80			XK															mod sltd	X	.06	.003	
85			XK										lt Grey lt Green					v. wk sltd		.05	.003	
90													lt Grey lt Green flash							.04	.002	
95													lt Grey Grey							.04	.002	
100			XK																			

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

DRILL HOLE RL-260

Page 2 of 8

LOGGED BY _____

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.	Ag	Au	✓
105			xk										lt Grey Grey				.5	looks like a F.G. tuff SAA. Trace xk (Slight incr Sulf & Qtz vn) (Larry said "this Hole's going to be a bitch.")	X	.04	.002	
110			xk																	.06	.003	
115			xk														2	strg Incr sulf.		.05	.003	
120			xk														2			.05	.002	
125			xk														1	Slighte Decr. sulf. (No xk observed) 1:40pm stop to weld air line into rophead 1:50 pm Drilling again	X	.08	.004	.004
130																	.5			.02	.001	.001
135																				.02	.001	
140																	.1	Still decr sulf. (may be a Pyroclastic unit ? Small clasts within tuff matrix looks like Ct or Cict)		.01	<	
145													lt Grey-Green lt Grey-flesh						X	.01	<	
150																		(trace grn clay on frax surface)		.02	<	
155																		(Slight incr Bleach) Trace Purp Rx		.01		
160		Ca											Dk Purp-Brown				0	Sharp Δ color & alt. un-alt Rx		.01		
165																	0		X	.01		
170																				.01		
175													Brown							.01		<
180													Dk Purp Brn-red							.01		
185		Ca																(strg Calc vn)	X	.01		
190																		(wk-mod calc vn)		.02		
195													lt Grn							.01		
200													lt Green Flesh-red				.1	wk alt Rx		.02		

H_2O

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

DRILL HOLE RL-260

Page 3 of 8

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 _____

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.	Ag	Au	✓
													lt Green Flesh-red				.1	SAA - wk alt	X	.02	<	
205																				.02		
210																				.01		<
215													lt Grey					Slight incr. Bleach		.01		
220													Flesh lt Grey						X	.01		
225													lt Green							.02		
230													lt Grey lt Green Flesh				.5			.02		
235																	.5			.02		
240																	.5	(w/ strg Green clay seams)		.01		
245			xk														1	(w/ Drk grey to Black Qtz vns and Qtz vn Bx: mod clay alt; slt wht Kaolin)	X	.04	.003	
250			xk														.5			.05	.004	.003
255			xk														1			.06	.002	.002
260			xk														2	(w/ Drk Grey Qtz & strg sulf.)	X	.06	.001	
265			xk										lt Grey Flesh wht				1	(Qtz cemented Bx) w/ wht Kaolin		.11	.003	
270			xk										lt Grey lt Grey-Green Flesh				1	(druzy Qtz w/ wht Kaolin)		.11	.004	
275			xk										lt Grey wht Black				2	(w/ Strg stockwk Qtz & Druzy Qtz w/ Black coating & Black Qtz)		.11	.007	
280			xk														1	(mod.)	X	.10	.003	
285			xk										lt Grey lt Grey-Green				1			.09	.004	
290			xk														1	(Strg XK)		.09	.003	
295			xk														.5			.09	.003	.003
300			xk																			

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

DRILL HOLE RL-260

Page 4 of 8

LOGGED BY _____

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	RQD CONN.	Ag	Au	✓
			XK										lt Green lt Grey				.5	SAA (trace wht Kaolin & Druzy Qtz)	X	.06	.003	
305																						
			XK																	.06	.004	
310																						
			XK																	.08	.009	
315		Frax																(Brecciated & silfd : Incr sulf. ; Frax Druzy Qtz w/ wht Kaolin)				
			XK														1			.12	.003	
H2O fault 320																						
			XK														1			.12	.006	
325																			X			
			XK										Olive lt Green				.5	(Trace wht Kaolin & XK slight Decr. Sulf.)		.13	.009	.011
330																		(may be in a F.G. porph tuff now?) not! FG tuff w/ dissem sulf.				
																				.14	.004	
335																		(W mod to strg Kaolin)				
																				.11	.007	
340													Olive Green					4:50 pm 4/7/92 4/8				
																				.08	.003	.002
345																			X			
																				.08	.002	
350																						
													lt Green Flesh				1	looks like a volcaniclastic unit again		.06	.003	
355																						
																	1			.08	.004	
360																						
			XK														.5			.07	.005	
365																			X			
																	.5			.10	.003	
370																						
																	1	(trace Kaolin Incr sulf)		.10	.004	
375																						
																	1	Druzy Qtz		.09	.003	
380		minor Frax Fault	Ba										lt Green Flesh-Brn				1	w/ Barite & Druzy Qtz w/ minor Dark Grey Qtz				
* 385																			X	.06	.002	
													Green Grey Flesh				.5	Fine Grain Porph Tuff w/ clay gouge		.03	.001	.001
390																						
													Green Grey				.1			.02	<	
395																						
400																	.1			.02	.001	

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

DRILL HOLE RL-260

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LOGGED BY _____

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.	Ag	Au	✓
													Green lt Green Grey				.1	SAA - F.G. Porph Tuff		.02	.001	
405																						
																				.01	.001	
410													lt Grey lt Green									
																				.01	<	
415													Brown									
			Ca															(w/ calc.)		.01	<	
420																						
																				.01	<	
425			Ca																			
													Brn Green				0			.01	<	<
430																						
													Grey Green				0			<	<	
435																						
													Green lt Green Grey Brn				.1			.02	.001	.001
440																						
													Green Brn				.1			<	<	
445																						
																				<		
450																						
																				<		
455																						
																				.01		
460																						
																				<		
465																						
																		Not much		<		<
470																		Happening				
													Green Grey							<		
475																						
													lt Green Grey							.01		
480																						
													Grey lt Green							.02		
485																						
													Grey Brn				0			.01		
490																						
													Grey Brn				0			.02		
495																						
																	.1			.01	.001	
500																						

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

DRILL HOLE RL-260

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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 _____

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.	Ag	Au	✓
													Gray-Brn				.1	SAA slight incr. sulf.	X	.02	.002	.002
505			Ca																			
													& Gray				.5			.02	<	
510																						
																	.1			<	<	<
515																						
																				.02		
520																						
																		(stop for 5 min. to weld cyclone)		.01		
525																			X			
													Drk Grey				0	(Black Carbon in H_2O Black Carbon on seams of tuff)		.02		
530																						
																				.02		
535																						
																				.02		
540																						
																				.02		
545																			X			
																				.02		
550																						
																				.01		<
555																						
			Ca																	.02	.001	.002
560																						
																				<	<	
565																			X			
																				.01		
570																						
																				.02		
575			Ca																			
																				.02		
580			Ca																			
																				.03		
585			Ca																X			
																				.04		
590			Ca																			
													lt Green lt Grn-Gry					sharp Δ color trace Qtz				
595			Ca Xc														.1			.02		
													Olive									
600			Ca														.1			.01		<

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

DRILL HOLE RL-260

Page 7 of 8

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 _____

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.	Ag	Au	✓
605			Ca										Olive Grey				.1	SAA	X	<	<	
610																	.1			.01	<	
615																				.01	.001	
620			Xc																	.01	<	
625													lt Green						X	.01	.001	
630																				.01	.001	
635																				.01	.001	
640			Ca Xk										Wht Grey lt Green					(trace wht Kaolin) (~5 ft wide Calc Vn w/ minor Grey Qtz)		.01	<	
645			Ca										Pink Grey					(I think we are in Trans Rx.)	X	.02	<	
650													Dk Grey lt Green							.02	.001	
655													lt Green							.02	<	
660													lt Green lt Grey				.5			.02	.003	
665													Black dark Grey				1	(Strong Py ; Strong Carb. in Tuff)	X	.05	.001	
670													Blue				.5	(w/ Blue clay)		.03	.001	
675													lt Grey Grey				.5	(w/ wht Kaolin)		.02	.001	
680													lt Grey Grey wht							.02	.001	
685																			X	.03	.001	.001
690													lt Green				.1			.02	.001	
695													Green lt Green lt Grey							.02	.001	
700													Grey							.03	.001	

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

DRILL HOLE RL-26

Page 8 of 8

LOGGED BY _____

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.	Ag	Au	✓
			Ca										Grey to Grey Black				.1	SAA - trace Blue Clay; This or these Rx look like a big mixed up Jumble of tuffs and sedimentary Rx I think this may be what is called Trans. Rx	X	.02	.001	
105																	.5			.02	.002	
110																	.1			.03	<	
115																	.5			.03	<	<
120																	.1		X	.02	.001	
125																	.5			.04	.001	
130																				.04	<	
135																		9.5 6 .5		.07	.003	.003
140																		4/8 4/9	X	.04	.001	
145																		Finished Bucket Test at 11:45 am		.03	.001	
150																				.02	.001	
155																				.03	<	
160																	.1			.02	<	<
165																			X	.03	.004	.003
170																			40	.03	<	
175																			35	.04	.002	
180																			X	.03	<	
185																				.02	.001	
190			Co										Black w/ wh					Basement				
195			Co															Black Carb. Phyllite w/ wh Bull Qtz		.02	.002	
200			Co															T.D. 10:15 am		.02	.001	

H_2O Test

time	seconds fill 5 to gallon	GPM
0	5.5	> 50
15	6.	50
30	6.5	< 50
45	7	
60	9.5	

Start H_2O test at 10:30

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL 260 TOTAL DEPTH 800' LOGGED BY RKS

Date started 4/7/92

Date completed 4/9/92

Initial bearing —

Initial inclination -90°

Elevation

Collar coordinates:

N

E

Contractor: Stevens

Drill Type: RC

Hole Size: 5¼

Drilling Conditions:

Footage: Wet / Dry 0-105 Dry

105-800 Wet

Comments: Good looking Rx from the top down to 400 ft; seen Barite down at 385 ft.

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 RL-260

Page 1 of 8

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

VEIN TYPES

DRUZY QUARTZ
CHALCEDONIC
STOCKWORK
CALCITE
HYDROTHERMAL BRECCIA VNS
BARITE

LOGGED BY _____

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH V	BLEACH M	BLEACH S	CLAY V	CLAY M	CLAY S	SILIC V	SILIC M	SILIC S	COLOR	% FeOx V	% FeOx M	% FeOx S	% SULF.	COMMENTS	ROD CONN	Ag	Au	✓
05													Brn org Bra-Red					Qal		.01	.001	
10																				.01	<	
15																				.01	<	
20																				<	<	
25																			X	<	.002	
30													Yllw org Ogy Yllw				0	Very sery clay alt tuff; protolith unknown		.02	<	
35																				.01	.001	
40																				.02	.005	
45																		Stop at 8:30 am to weld air line on top rod ½ hr 9:00 am - build [illegible] Room here for [illegible] 9:20 am Drilling at 12:15pm	X	.05	.013	.029
50																				.05	.001	
55																				.02	.001	
60													Yllw org lt Grey				.5	ox 1st sign of sulf [Redox] sulf		.03	<	
65													lt Grey						X	.02	.001	
70			xx										lt Grey Greenish					mod slfd (Brn-ay clay contam)		.25	.005	.007
75			xx															wk slfd		.06	.003	
80			xx										lt Grey Green wht					trace xx		.05	.003	
85			xx															mod slfd	X	.06	.003	
90													lt Gray lt Green					v. wk slfd		.05	.003	
95													lt Grey lt Green flash							.04	.002	
100			xx										lt Grey Grey							.04	.002	

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

DRILL HOLE RL-260

Page 2 of 8

LOGGED BY _____

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

looks like a tuff

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W M S	CLAY W M S	SILIC W M S	COLOR	% FeOx W M S	% SULF.	F.G. COMMENTS	ROD COAL	Ag	Au	✓
105			xk				lt Gray Gray		.5	SAA. Trace xk (Larry said "stay" Hole's going to be a break.)	X	.04	.002	
110			xk						↓	(Slightly mor sulf!) Qtz vn		.06	.003	
115			xk						2	Very Trace sulf.		.05	.003	
120			xk						2			.05	.002	
125			xk						1	Slightly Decr. sulf. (No xk observed) 1:40pm stop to weld air line on rig hand 1:50 pm On Rig again	X	.08	.004	.004
130									.5			.02	.001	.001
135									↓			.02	.001	
140									.1	Still decr sulf. (may be a Pyrochlore unit?) (Small clasts within tuff matrix looks like Cb or Calc)		.01	<	
145							lt Gray-Olive lt Gray-Green					.01	<	
150										(trace grn clay on fract surface)	X	.02	<	
155										(Slightly mor Bleach) trace Purp Rx		.01		
160		Ca					Dk Purp Brown		0	Sharp Δ color & alt. un-alt Rx		.01		
165									0		X	.01		
170												.01		
175							Brown					.01		<
180							Dk Purp Brown					.01		
185		Ca								(Grey Calc vn)	X	.01		
190										(wk-mod calc vn)		.02		
195							lt Green					.01		
200							lt Green Flecked		.1	wk alt Rx		.02		

H_2O

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

DRILL HOLE RL-260

Page 3 of 8

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 _____

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH V H S	CLAY V H S	SILIC V H S	COLOR	% FeOx V H S	% SULF.	COMMENTS	RDB CONC	Ag	Au	✓
205							lt Green flashed		.1	SAA - wk alt	X	.02	<	
210												.02		
215												.01		<
220							lt gray			Slight incr. Bleach		.01		
225							Flash lt Gray				X	.01		
230							lt Green					.02		
235							lt Gray lt Green flash		.5			.02		
240									.5			.02		
245									.5	(w/ sery Green clay seams)		.01		
250			xk						1	(w/ Dk grey to Black Qtz vns and Qtz vn Bx: mod clay a/r:sil w/wk Kaolin)	X	.06	.003	
255			xk						.5			.05	.004	.003
260			xk						1			.06	.002	.002
265			xk						2	(w/ Dk Gray Qtz & sery sulf.)	X	.06	.001	
270			xk				lt Gray flash white		1	(Qtz cemented Bx) w/wk Kaolin		.11	.003	
275			xk				lt Gray lt Gray-Green flash		1	(Drusy Qtz w/wk Kaolin)		.11	.004	
280			xk				lt Gray white flash		2	(w/ Sery stockwk Qtz & Drusy Qtz w/ Black coating & Black Qtz)		.11	.007	
285			xk						1	(wk)	X	.10	.003	
290			xk				lt Gray lt Gray-Green		1			.09	.004	
295			xk						1	(Sery Alt)		.09	.003	
300			xk						.5			.09	.003	.003

Incr. H_2O

Incr. H_2O

fault zone

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

DRILL HOLE RL-260

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VOLCANICLASTIC
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DRUZY QUARTZ
CHALCEDONIC
STOCKWORK
CALCITE
HYDROTHERMAL BRECCIA VNS
BARITE

LOGGED BY _____

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W M S	CLAY W M S	SILIC W M S	COLOR	% FeOx W M S	% SULF.	COMMENTS	MOD COMM	Ag	Au	✓
305			xk				lt Green to Grey		.5	SAH (trace wht Kaolin ; Drusy Qtz)	X	.06	.003	
310			xk									.06	.004	
315			xk									.08	.009	
320		Fro	xk						1	(Brecciated & silfd : Incr sulf. ; Frosty Drusy Qtz w/ wht Kaolin)		.12	.003	
325			xk						1			.12	.006	
330			xk				Olive to Green		.5	(Trace wht Kaolin & xk slight Incr. sulf.) (may be in a F.G. purple tuff now?)	X	.13	.009	.011
335										not! FG tuff w/ disseam. sulf. (W need to say Kaolin)		.14	.009	
340												.11	.007	
345							Olive Green			4:50 pm 4/7/92 4/2	X	.08	.003	.002
350												.08	.002	
355							lt Green Flesh		1	looks like a volcaniclastic unit again		.06	.003	
360									1			.08	.009	
365			xk						.5			.07	.005	
370									.5		X	.10	.003	
375									1	(trace Kaolin Incr sulf Drusy Qtz)		.10	.004	
380		Fro							1			.09	.003	
385		Fro	Ba				Green Dk Grey		1	w/ Barite & Drusy Qtz w/minor Dk Grey Qtz		.06	.002	
390							Green Grey Purple		.5	Fine Grain Purple Tuff w/ clay gouge	X	.03	.001	.001
395							Green Grey		.1			.02	<	
400									.1			.02	.001	

H_2O fault

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

DRILL HOLE RL-260

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- 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 _____

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W	BLEACH M	BLEACH S	CLAY V	CLAY M	CLAY S	SILIC V	SILIC M	SILIC S	COLOR	% FeOx W	% FeOx M	% FeOx S	% SULF.	COMMENTS	ROD CONA	AG	Au	✓
405													Green lt Green Grey				.1	SAA. F.G. Purple Tuff		.02	.001	
410													↓							.01	.001	
415													lt Grey lt Green							.01	<	
420			Ca										Brown					(w/ calc.)		.01	<	
425			Ca										↓							.01	<	
430													Brn Green				0			.01	<	<
435													Grey Green				0			<	<	
440													Green lt Green Grey Brn				.1			.02	.001	.001
445													Green Brn				.1			<	<	
450																				<		
455																				<		
460																				.01		
465																				<		
470													↓					Not much Happening		<		<
475													Green Grey							<		
480													lt Green Grey							.01		
485													Grey lt Green							.02		
490													Grey/Brn				0			.01		
495													Grey-Brn				0			.02		
500													↓				.1			.01	.001	

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

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH V	BLEACH M	BLEACH S	CLAY V	CLAY M	CLAY S	SILIC V	SILIC M	SILIC S	COLOR	% FeOx V	% FeOx M	% FeOx S	% SULF.	COMMENTS	ROD CONN.	Ag	Au	✓
													Gray Brn				.1	SAA · slightly more sulf.		.02	.002	.002
505			Ca																X			
510													(Gray)				.5			.02	<	
515																	.1			<	<	<
520																				.02		
525																		(strap for 5 min. to weld c-clamp)	X	.01		
530													Dark Grey				0	(Black Carbon in H_2O Black Carbon on seams of tuff)		.02		
535																				.02		
540																				.02		
545																			X	.02		
550																				.02		
555																				.01		<
560			Ca																	.02	.001	.002
565																			X	<	<	
570																				.01		
575			Ca																	.02		
580			Ca																	.02		
585			Ca																X	.03		
590			Ca																	.04		
595			Ca Xc										Lt Green Lt Gray-Grn				.1	Sharp & color trace Qtz		.02		
600			Ca										Olive				.1			.01	<	

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

DRILL HOLE RL-260

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

VEIN TYPES

DRUZY QUARTZ
CHALCEDONIC
STOCKWORK
CALCITE
HYDROTHERMAL BRECCIA VNS
BARITE

LOGGED BY

FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W M S	CLAY W M S	SILIC W M S	COLOR	% FeOx W M S	% SULF.	COMMENTS	ROD CONN.	Ag	Au	✓
605			Ca				Dk Jade Grey		.1	SAA	X	<	<	
610									.1			.01	<	
615												.01	.001	
620			Xc									.01	<	
625							lt Green				X	.01	.001	
630												.01	.001	
635										(trace other Kaolin)		.01	.001	
640			Ca Xk				Wht Grey lt Green			(w/ 5 ft wide Calc Vn w/ some Grey Qtz)		.01	<	
645			Ca				Pink Grey			(I think we are in Trans. Pix.)	X	.02	<	
650							Dk Grey lt Green					.02	.001	
655							lt Green					.02	<	
660							lt Green lt Grey		.5			.02	.003	
665							Black pale Grey		1	(Strong Py : Strong Carb. in Tuff)	X	.05	.001	
670							Blue		.5	(w/ Blue clay)		.03	.001	
675							lt Grey Grey		.5	(w/ white Kaolin)		.02	.001	
680							lt Grey Grey white					.02	.001	
685											X	.03	.001	.001
690							lt Green		.1			.02	.001	
695							Green lt Green lt Grey					.02	.001	
700							Grey					.03	.001	

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

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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

LOGGED BY _____

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 COND.	Ag	Au	✓
105			Ca										Grey to Grey Black				.1	SAA - This or these Rx look like a big mixed up Jumble of tuffs and sedimentary Rx I think this may be what is called Trans. Rx	X	.02	.001	
110																	.5	true Blue clay		.02	.002	
115																	.1			.03	<	
120																	.5			.03	<	<
125																	.1		X	.02	.001	
130																	.5			.04	.001	
135																		10		.04	<	
140																		9.5 6 .5		.07	.003	.003
145																		4/8 4/91	X	.04	.001	
150																		Finished Bucket Test at 11:45 am		.03	.001	
155																				.02	.001	
160																				.03	<	
165																	.1		X	.02	<	<
170																				.03	.004	.003
175																			40	.03	<	
180																			35 32	.04	.002	
185																			X	.03	<	
190			X Ca										Black Lava					Basement		.02	.001	
195			X Ca															Black Carb. Phyllite w/ wh Bull Qtz		.02	.002	
200			X Ca															T.D. 10:15 am		.02	.001	

H_2O Test

time	seconds till it boils	GPM
0	5.5	55
15	6.	> 50
30	6.5	50
45	7	< 50
60	9.5	

Clean H_2O test at 10:30

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL 260 TOTAL DEPTH 800' LOGGED BY RKS

Date started 4/7/92

Date completed 4/9/92

Initial bearing —

Initial inclination -90°

Elevation

Collar coordinates:

N

E

Contractor: Stevens

Drill Type: RC

Hole Size: 5¼

Drilling Conditions:

Footage: Wet / Dry 0 - 105 Dry

105 - 800 Wet

Comments: Good looking Rx from the top down to 400 ft: seen Borite down at 385 ft.

49
5065
380
4685

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 RL-260

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DRUZY QUARTZ
CHALCEDONIC
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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.	Ag	Au	✓
	Qal												Brn org Brn-Yllw					start 7:00 am Qal				
05																						
10																						
15																						
20																						
25																			X			
30													Yllw org Dg-Yllw				0	Very strg clay alt tuff; protolith unknown				
35																						
40																						
45																		stop at 8:30 am to weld air line on top head ½ hr 9:00 am – build casing Ream hole for casing 9:30 am Drilling at 12:15 pm	X			
50																						
55													Yllw Org Lt Grey				.5	ox 1st sign of sulf [Redox] sulf				
60													Lt Grey									
65																			X			
70		Δ Δ	XK										Lt Grey Brn-org					mod slfd (Brn-org clay contam) wk slfd				
75			XK																			
80			xk										Lt Grey Grey Lbt					trace XK				
85		Δ Δ	XK															mod slfd	X			
													Lt Grey Lt Green					v. wk slfd				
													Lt Grey Lt Green Flash									
95													Lt Grey Grey									
100			XK																			

LAC MINERALS (U.S.A.) INC.
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FINE-GRAINED TUFF
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VEIN TYPES

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Xc CHALCEDONIC
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LOGGED BY _____

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.	F.G. COMMENTS	ROD CONN.	Ag	Au	✓
			xk										lt Grey Grey				.5	SAA. Trace xk (Larry said "this Hole's going to be a bitch.")	X			
105																		(Slight incr sulf ?) Qtz vn				
110			xk																			
																	2	strg Incr sulf.				
115			xk																			
																	2					
120			xk																			
																	1	Slightly Decr. sulf. (No xk observed) 1:40pm stop to weld air line into rophead 1:50pm Drilling again	X			
125			xk																			
																	.5					
130																						
135																						
																	.1	Still decr sulf. (May be a Pyroclastic unit ? Small clasts within tuff matrix looks like Ct or Cl-Ct)				
140													lt Grey-Green lt Grey-flesh									
145																		(trace grn clay on frax surface)	X			
150																		(Slight incr Bleach) Trace Purp Rx				
155																		Sharp Δ color & alt.				
		Ca											Dk Purp-Green				0	un-alt Rx				
160																	0					
165																			X			
170													Brown									
175													Dk Purp Brn-red									
180																						
185		Ca																(Strg Calc vn) (wk-mod calc vn)	X			
190																						
195													lt Gre									
200													lt Green Flesh-red				.1	wk alt Rx				

looks like a tuff

H_2O

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FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W H S	CLAY W H S	SILIC W H S	COLOR	% FeOx W H S	% SULF.	COMMENTS	ROD CONN.	Ag	Au	✓
							lt Green flesh-red		.1	SAA - wk alt				
205											X			
210														
215							lt Grey			Slight incr. Bleach				
220							Flesh lt Grey							
225							lt Green				X			
230							lt Grey lt Green flesh		.5					
240									.5					
245									.5	(w/ strg Green clay seams)				
250			xk						1	(w/ Dk grey to Black Qtz vns and Qtz vn Bx: mod clay alt'ish w/wk Kaolin)	X			
255			xk						.5					
260			xk						1					
265			xk						2	(w/ Dk Grey Qtz & strg sulf.)	X			
270			xk				lt Grey flesh wht		1	(Qtz cemented Bx) w/wk Kaolin				
275			xk				lt Grey lt Grey-Green flesh		1	(Druzy Qtz w/wk Kaolin)				
280			xk				lt Grey wht Blck		2	(w/ Strg stockwk Qtz & Druzy Qtz w/ Blck coating & Blck Qtz)				
285			xk						1	(rod.)	X			
			xk				lt Grey lt Grey-Green		1					
295			xk						1	(Strg XK)				
300			xk						.5					

Incr. H2O

Incr. H2O
wk zone

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FT.	LITHO	FRACTS FAULTS	VEIN TYPES	BLEACH W H S	CLAY W H S	SILIC W H S	COLOR	% FeOx W H S	% SULF.	COMMENTS	ROD CONN.	Ag	Au	✓
305			XK				lt Green lt Grey		.5	SAA (trace wht Kaolin & Druzy Qtz)	X			
310			XK											
315			XK											
320		FrOX	XK						1	(Brecciated & sltd : Incr sulf. ; FrOX Druzy Qtz w/ wht Kaolin)				
325			XK						1					
330			XK				Olive lt Green		.5	(Trace wht Kaolin. & XK slight Decr. Sulf.) (may be in a F.G porph tuff now?) not! FG tuff w/ dissem sulf. (W mod to strg Kaolin)	X			
340														
345							Olive Green			4:50 pm 4/7/92 4/8	X			
350														
355							lt Green Flesh		1	looks like a volcaniclastic unit again				
360									1					
365			XK						.5		X			
370									.5					
375									1	(trace Kaolin Incr sulf Druzy Qtz)				
380		mixed frgt							1					
385		Faulte	Ba				lt Green Flesh-Brn		1	w/ Barite & Druzy Qtz w/minor Dark Grey Qtz				
							Green Grey Flesh		.5	Fine Grain Porph Tuff w/ clay gouge	X			
395							Green Grey		.1					
400									.1					

H_2O fault?

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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	RQD CONN.	Ag	Au	✓
													Green lt Green Grey				.1	SAA - F.G. Porph Tuff				
405													↓									
410													lt Grey lt Green									
415													Brown									
420			Ca										↓					(w/ calc.)				
425			Ca										Brn Green				0	↓				
430													Grey Green				0					
435													Green lt Green Grey Brn				.1					
440													Green Brn				.1					
445																						
450																						
455																						
460																						
465																						
470													↓					Not much Happening				
475													Green Grey									
480													lt Green Grey									
485													Grey lt Green									
490													Grey/Brn				0					

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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.	Ag	Au	✓
			Ca										Gray-Brn				.1	SAA slight incr. sulf.				
505																			X			
510													Gray				.5					
515																	.1					
520																						
525																		(stop for 5 min. to weld cyclone)	X			
530													Drk Grey				0	(Black Carbon in H_2O Black Carbon on seams of tuff)				
535																						
540																						
545																						
550																			X			
555																						
560			Ca																			
565																						
570																			X			
575			Ca																			
580			Ca																			
585			Ca																X			

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ROSEBUD PROJECT

DRILL HOLE RL-260

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BEDDED BUD LLT
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PORPHYRITIC TUFF
FLOW BANDED TUFF

VEIN TYPES

DRUZY QUARTZ
Xc CHALCEDONIC
Xk STOCKWORK
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HYDROTHERMAL BRECCIA VNS
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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.	Ag	Au	✓
605			Ca										Olive Grey				.1	SAA	X			
610																	.1					
615																						
620			Xc																			
625													lt Green						X			
630																						
635																		(trace white Kaolin)				
640			Ca xk										Wht Grey lt Green					(~5 ft wide Calc Vn w/ minor Grey Qtz)				
645			Ca										Drk Grey					(I think we are in Trans Rx.)	X			
650													Drk Grey lt Green									
655													lt Green									
660													lt Green lt Grey				.5					
665													Black drk Grey				1	(Strg Py ; Strg Carb. in Tuff)	X			
670													Blue				.5	(w/ Blue clay)				
675													lt Grey Grey				.5	(w/ wht Kaolin)				
680													lt Grey Grey wht									
685																			X			
													lt Green				.1					
695													Green lt Green lt Grey									
700													Grey									

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

DRILL HOLE RL-26

Page 8 of 8

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

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	RQD CONN.	Ag	Au	✓
			Ca										Grey to Grey Black				.1	SAA - trace Blue Clay (This or these Rx look like a big mixed up Jumble of tuffs and sedimentary Rx I think this may be what is called Trans. Rx)	X			
105																	.5					
110																	.1					
115																	.5					
120																	.1		X			
125																	.5					
130																		5 60				
135																		9.5 6 .5				
140																						
145																		4/8 4/9	X			
150																		Finished Bucket Test at 11:45 am				
155																						
160																	.1					
165																			X			
170																						
175																						
180																						
185																			X			
190			Co										Black w/ wt					Basement				
195			Co															Black Carb. Phyllite w/ wht Bull Qtz				
800			Ca															TD 10:15 am				

H_2O Test

time	seconds to fill 5 gallon	GPM
0	5.5	> 50
15	6.	50
30	6.5	< 50
45	7	40
60	9.5	35

Final H_2O test at 10:30

AUASSAY3.XLS

HOLE#	RL 260		Target:	Valley	Close to portal area						
Hole #	From	To	Inter.	AUAVG	AUAVGppt	AU SUM	# SAM	PS AU1	AU2	AU3	AU4-AU13
RL260	0	5	0	0.000	3	0.002	2	0.001	0.001	-9	-9
RL260	5	10	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	10	15	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	15	20	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	20	25	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	25	30	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	30	35	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	35	40	0	0.005	171	0.005	1	0.005	-9	-9	-9
RL260	40	45	0	0.024	806	0.047	2	0.023	0.024	-9	-9
RL260	45	50	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	50	55	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	55	60	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	60	65	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	65	70	0	0.006	206	0.012	2	0.005	0.007	-9	-9
RL260	70	75	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	75	80	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	80	85	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	85	90	0	0.003	103	0.006	2	0.003	0.003	-9	-9
RL260	90	95	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	95	100	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	100	105	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	105	110	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	110	115	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	115	120	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	120	125	0	0.004	137	0.008	2	0.004	0.004	-9	-9
RL260	125	130	0	0.001	34	0.002	2	0.001	0.001	-9	-9
RL260	130	135	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	135	140	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	140	145	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	145	150	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	150	155	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	155	160	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	160	165	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	165	170	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	170	175	0	0.000	0	0.000	2	0	0	-9	-9
RL260	175	180	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	180	185	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	185	190	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	190	195	0	0.000	0	0.000	1	0	-9	-9	-9

RL260	195	200	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	200	205	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	205	210	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	210	215	0	0.000	0	0.000	2	0	0	-9	-9
RL260	215	220	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	220	225	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	225	230	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	230	235	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	235	240	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	240	245	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	245	250	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	250	255	0	0.004	120	0.007	2	0.004	0.003	-9	-9
RL260	255	260	0	0.002	69	0.004	2	0.002	0.002	-9	-9
RL260	260	265	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	265	270	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	270	275	0	0.004	137	0.004	1	0.004	-9	-9	-9
RL260	275	280	0	0.007	240	0.007	1	0.007	-9	-9	-9
RL260	280	285	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	285	290	0	0.004	137	0.004	1	0.004	-9	-9	-9
RL260	290	295	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	295	300	0	0.003	103	0.006	2	0.003	0.003	-9	-9
RL260	300	305	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	305	310	0	0.004	137	0.004	1	0.004	-9	-9	-9
RL260	310	315	0	0.009	309	0.009	1	0.009	-9	-9	-9
RL260	315	320	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	320	325	0	0.006	206	0.006	1	0.006	-9	-9	-9
RL260	325	330	0	0.010	343	0.020	2	0.009	0.011	-9	-9
RL260	330	335	0	0.004	137	0.004	1	0.004	-9	-9	-9
RL260	335	340	0	0.007	240	0.007	1	0.007	-9	-9	-9
RL260	340	345	0	0.003	86	0.005	2	0.003	0.002	-9	-9
RL260	345	350	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	350	355	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	355	360	0	0.004	137	0.004	1	0.004	-9	-9	-9
RL260	360	365	0	0.005	171	0.005	1	0.005	-9	-9	-9
RL260	365	370	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	370	375	0	0.004	137	0.004	1	0.004	-9	-9	-9
RL260	375	380	0	0.003	103	0.003	1	0.003	-9	-9	-9
RL260	380	385	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	385	390	0	0.001	34	0.002	2	0.001	0.001	-9	-9
RL260	390	395	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	395	400	0	0.001	34	0.001	1	0.001	-9	-9	-9

RL260	400	405	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	405	410	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	410	415	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	415	420	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	420	425	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	425	430	0	0.000	0	0.000	2	0	0	-9	-9
RL260	430	435	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	435	440	0	0.001	34	0.002	2	0.001	0.001	-9	-9
RL260	440	445	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	445	450	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	450	455	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	455	460	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	460	465	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	465	470	0	0.000	0	0.000	2	0	0	-9	-9
RL260	470	475	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	475	480	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	480	485	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	485	490	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	490	495	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	495	500	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	500	505	0	0.002	69	0.004	2	0.002	0.002	-9	-9
RL260	505	510	0	Not Sampled		0.000	0	-9	-9	-9	-9
RL260	510	515	0	0.000	0	0.000	2	0	0	-9	-9
RL260	515	520	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	520	525	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	525	530	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	530	535	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	535	540	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	540	545	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	545	550	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	550	555	0	0.000	0	0.000	2	0	0	-9	-9
RL260	555	560	0	0.001	34	0.002	2	0	0.002	-9	-9
RL260	560	565	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	565	570	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	570	575	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	575	580	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	580	585	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	585	590	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	590	595	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	595	600	0	0.000	0	0.000	2	0	0	-9	-9
RL260	600	605	0	0.000	0	0.000	1	0	-9	-9	-9

RL260	605	610	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	610	615	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	615	620	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	620	625	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	625	630	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	630	635	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	635	640	0	0.000	0	0.000	2	0	0	-9	-9
RL260	640	645	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	645	650	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	650	655	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	655	660	0	0.003	103	0.006	2	0.003	0.003	-9	-9
RL260	660	665	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	665	670	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	670	675	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	675	680	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	680	685	0	0.001	34	0.002	2	0.001	0.001	-9	-9
RL260	685	690	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	690	695	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	695	700	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	700	705	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	705	710	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	710	715	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	715	720	0	0.000	0	0.000	2	0	0	-9	-9
RL260	720	725	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	725	730	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	730	735	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	735	740	0	0.003	103	0.006	2	0.003	0.003	-9	-9
RL260	740	745	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	745	750	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	750	755	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	755	760	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	760	765	0	0.000	0	0.000	2	0	0	-9	-9
RL260	765	770	0	0.004	120	0.007	2	0.003	0.004	-9	-9
RL260	770	775	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	775	780	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	780	785	0	0.000	0	0.000	1	0	-9	-9	-9
RL260	785	790	0	0.001	34	0.001	1	0.001	-9	-9	-9
RL260	790	795	0	0.002	69	0.002	1	0.002	-9	-9	-9
RL260	795	800	0	0.001	34	0.001	1	0.001	-9	-9	-9

File

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

17-Apr-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Page: 7
Copy: 1 of 3
Set : 2

Received: 10-Apr-92 17:00

Attn: Tim Kuhl
Project: Rosebud

PO #:

Job: 92523R

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
NA	: Not Analyzed

Job approved by:

Signed:

.....
Vernon K. Peterson
Laboratory Manager

cc: KRISTEN KENNER, LAC MINERALS

BARRINGER LABORATORIES INC.

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17-Apr-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 10-Apr-92 17:00

Job: 92523R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL260 0 5	0.0006	0.0005	0.009
~~BL 38~~	~~0.0145~~	~~NA~~	~~NA~~
RL260 5 10	0.0002	NA	0.009
RL260 10 15	0.0003	NA	0.009
RL260 15 20	0.0003	NA	0.003
RL260 20 25	0.0017	NA	0.003
RL260 25 30	0.0003	NA	0.015
RL260 30 35	0.0005	NA	0.009
RL260 35 40	0.0051	NA	0.023
RL260 40 45	0.0234	0.0242	0.053
RL260 45 50	0.0006	NA	0.047
RL260 50 55	0.0008	NA	0.015
RL260 55 60	0.0004	NA	0.026
RL260 60 65	0.0008	NA	0.018
RL260 65 70	0.0047	0.0066	0.251
RL260 70 75	0.0029	NA	0.055
RL260 75 80	0.0029	NA	0.050
RL260 80 85	0.0026	NA	0.064
RL260 85 90	0.0027	0.0028	0.047
~~BL 39~~	~~0.0311~~	~~NA~~	~~NA~~
RL260 90 95	0.0021	NA	0.041
RL260 95 100	0.0017	NA	0.035
RL260 100 105	0.0016	NA	0.035
RL260 105 110	0.0026	NA	0.061
RL260 110 115	0.0025	NA	0.047
RL260 115 120	0.0022	NA	0.050
RL260 120 125	0.0039	0.0039	0.079
RL260 125 130	0.0006	0.0005	0.015
RL260 130 135	0.0006	NA	0.018
RL260 135 140	0.0003	NA	0.009

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RENO, NEVADA 89511
PHONE: (702) 828-1158

17-Apr-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 10-Apr-92 17:00

Job: 92523R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL260 140 145	0.0002	NA	0.012
RL260 145 150	0.0003	NA	0.020
RL260 150 155	0.0001	NA	0.012
RL260 155 160	<0.0001	NA	0.006
RL260 160 165	<0.0001	NA	0.006
RL260 165 170	<0.0001	NA	0.009
RL260 170 175	<0.0001	<0.0001	0.009
~~BL 40~~	~~0.0458~~	~~NA~~	~~NA~~
RL260 175 180	<0.0001	NA	0.009
RL260 180 185	<0.0001	NA	0.006
RL260 185 190	<0.0001	NA	0.015
RL260 190 195	0.0001	NA	0.009
RL260 195 200	0.0001	NA	0.020
RL260 200 205	0.0001	NA	0.018
RL260 205 210	0.0001	NA	0.015
RL260 210 215	<0.0001	<0.0001	0.012
RL260 215 220	<0.0001	NA	0.012
RL260 220 225	<0.0001	NA	0.012
RL260 225 230	<0.0001	NA	0.018
RL260 230 235	<0.0001	NA	0.023
RL260 235 240	0.0001	NA	0.015
RL260 240 245	0.0004	NA	0.012
RL260 245 250	0.0034	NA	0.055
RL260 250 255	0.0037	0.0027	0.050
RL260 255 260	0.0022	0.0020	0.058
~~BL 41~~	~~0.0531~~	~~NA~~	~~NA~~
RL260 260 265	0.0013	NA	0.064
RL260 265 270	0.0028	NA	0.105
RL260 270 275	0.0039	NA	0.105
RL260 275 280	0.0070	NA	0.108

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

17-Apr-92

LAC MINERALS
P O BOX 21390
RENO NV 89515

Attn: Tim Kuhl
Project: Rosebud

PO #:

Received: 10-Apr-92 17:00

Job: 92523R

Status: Final

Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL260 280 285	0.0030	NA	0.096
RL260 285 290	0.0043	NA	0.091
RL260 290 295	0.0034	NA	0.093
RL260 295 300	0.0029	0.0032	0.088
RL260 300 305	0.0029	NA	0.058
RL260 305 310	0.0039	NA	0.055
RL260 310 315	0.0089	NA	0.076
RL260 315 320	0.0029	NA	0.120
RL260 320 325	0.0063	NA	0.117
RL260 325 330	0.0092	0.0108	0.131
RL260 330 335	0.0042	NA	0.137
RL260 335 340	0.0068	NA	0.105
RL260 340 345	0.0027	0.0023	0.079
~~BL 42~~	~~0.0315~~	~~NA~~	~~NA~~
RL260 345 350	0.0024	NA	0.082
RL260 350 355	0.0029	NA	0.058
RL260 355 360	0.0035	NA	0.082
RL260 360 365	0.0048	NA	0.067
RL260 365 370	0.0034	NA	0.096
RL260 370 375	0.0037	NA	0.099
RL260 375 380	0.0031	NA	0.088
RL260 380 385	0.0023	NA	0.058
RL260 385 390	0.0010	0.0013	0.032
RL260 390 395	0.0004	NA	0.018
RL260 395 400	0.0008	NA	0.023
RL260 400 405	0.0011	NA	0.018
RL260 405 410	0.0010	NA	0.012
RL260 410 415	0.0001	NA	0.009
RL260 415 420	0.0002	NA	0.009
RL260 420 425	0.0003	NA	0.009

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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
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Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL260 425 430	0.0004	0.0003	0.006
~~BL 43~~	~~0.0490~~	~~NA~~	~~NA~~
RL260 430 435	0.0001	NA	0.003
RL260 435 440	0.0007	0.0008	0.018
RL260 440 445	0.0001	NA	0.003
RL260 445 450	0.0001	NA	0.003
RL260 450 455	0.0001	NA	0.003
RL260 455 460	<0.0001	NA	0.009
RL260 460 465	<0.0001	NA	0.003
RL260 465 470	<0.0001	<0.0001	0.003
RL260 470 475	<0.0001	NA	0.003
RL260 475 480	0.0004	NA	0.006
RL260 480 485	0.0001	NA	0.015
RL260 485 490	<0.0001	NA	0.009
RL260 490 495	<0.0001	NA	0.018
RL260 495 500	0.0009	NA	0.012
RL260 500 505	0.0017	0.0016	0.023
RL260 505 510	0.0001	NA	0.015
RL260 510 515	<0.0001	<0.0001	0.003
~~BL 44~~	~~0.0147~~	~~NA~~	~~NA~~
RL260 515 520	<0.0001	NA	0.015
RL260 520 525	<0.0001	NA	0.009
RL260 525 530	<0.0001	NA	0.015
RL260 530 535	0.0002	NA	0.018
RL260 535 540	<0.0001	NA	0.015
RL260 540 545	0.0003	NA	0.015
RL260 545 550	0.0001	NA	0.020
RL260 550 555	<0.0001	<0.0001	0.006
RL260 555 560	0.0010	0.0015	0.015
RL260 560 565	<0.0001	NA	0.003

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Cutting

Sample Id	Au FA/AA/AAS oz/ton	Au FA/AA oz/ton	Ag AA oz/ton
RL260 565 570	<0.0001	NA	0.006
RL260 570 575	<0.0001	NA	0.015
RL260 575 580	<0.0001	NA	0.023
RL260 580 585	<0.0001	NA	0.029
RL260 585 590	0.0002	NA	0.041
RL260 590 595	0.0001	NA	0.020
RL260 595 600	<0.0001	<0.0001	0.006
~~BL 45~~	~~0.0470~~	~~NA~~	~~NA~~
RL260 600 605	<0.0001	NA	0.003
RL260 605 610	0.0004	NA	0.006
RL260 610 615	0.0012	NA	0.009
RL260 615 620	0.0003	NA	0.006
RL260 620 625	0.0005	NA	0.006
RL260 625 630	0.0009	NA	0.012
RL260 630 635	0.0010	NA	0.009
RL260 635 640	0.0001	0.0001	0.009
RL260 640 645	<0.0001	NA	0.018
RL260 645 650	0.0012	NA	0.015
RL260 650 655	0.0002	NA	0.015
RL260 655 660	0.0033	0.0031	0.018
RL260 660 665	0.0013	NA	0.053
RL260 665 670	0.0005	NA	0.026
RL260 670 675	0.0009	NA	0.023
RL260 675 680	0.0005	NA	0.015
RL260 680 685	0.0010	0.0007	0.029
~~BL 46~~	~~0.0465~~	~~NA~~	~~NA~~
RL260 685 690	0.0009	NA	0.018
~~BL 47~~	~~0.0478~~	~~NA~~	~~NA~~
RL260 690 695	0.0005	NA	0.018
RL260 695 700	0.0014	NA	0.026

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Cutting

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RL260 700 705	0.0005	NA	0.020
RL260 705 710	0.0019	NA	0.020
RL260 710 715	0.0001	NA	0.026
RL260 715 720	0.0001	0.0002	0.029
RL260 720 725	0.0006	NA	0.015
RL260 725 730	0.0011	NA	0.035
RL260 730 735	0.0002	NA	0.038
RL260 735 740	0.0034	0.0033	0.073
RL260 740 745	0.0006	NA	0.038
RL260 745 750	0.0006	NA	0.026
RL260 750 755	0.0007	NA	0.023
RL260 755 760	0.0002	NA	0.026
RL260 760 765	0.0001	0.0002	0.018
RL265 765 770	0.0026	0.0037	0.029
RL260 770 775	0.0003	NA	0.032
~~BL 48~~	~~0.0478~~	~~NA~~	~~NA~~
RL260 775 780	0.0021	NA	0.038
RL260 780 785	0.0002	NA	0.026
RL260 785 790	0.0010	NA	0.023
RL260 790 795	0.0016	NA	0.020
RL260 795 800	0.0006	NA	0.023

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LAC Minerals – Rejects to Keep

Date Recieved	Work Order #	Rejects to Keep
4-10-92	92523	RL-260
	this entire hole is on job # 92523	25-30 → 150-155 225-230 → 395-400 660-665 → 795-800
5-8-92	92755	RL-266
	this interval is the only sequence from job # 92755 ★	30-35 → 195-200
	92785	540-545 → 610-615 660-665 → 680-685
4-25-92	92620	RL-274
	all present on job # 92620	150-155 → 230-235 355-360 → 565-570
4-25-92	92619	RL-271
	all present on job # 92619	200-210 → 270-275 400-405 → 425-430 720-725 → 745-750
4-27-92	92627	RL-258
	92343	0-5 → 295-300
	92391	485-490 → 625-630
	This is the only interval from job # 92627	750-755 → 860-865
4-23-92	92603	RL-273
	this entire hole is on job # 92603	90-95 → 120-125 170-175 → 330-335 385-390 → 400-405 460-465 → 695-700