60001310

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-76
AUTHOR	N. Brewer; R Grandin
DATE OF DOC(S)	1990
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Ekland Drilling Lac Minerals (USA) Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 625' handwritten notes 11p.

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-76
Rosebud

60001310 4010 ✓

66061310

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-76 TOTAL DEPTH 625' LOGGED BY DAM

Date started 4·18·90

Date completed 4·19·90

Initial bearing S 55E

Initial inclination 60°

Elevation 5082.6

Collar coordinates:

N 2203480.0

E 479849.8

Contractor: EKLUND

Drill Type: MBD-1000

Hole Size: 4 3/4"

Drilling Conditions: HAMMER TO 625'

Footage: Wet / Dry DRY TO 155'

Comments: END IN DOZER WELDED TUFF, MUD & CEMENT HOLE

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	50		-60	S 55E			
50	150		-62	"			
150	250		-64	"			
250	350		-66	"			
350	450		-68	"			
450	550		-70	"			
550	625		-71.5	"			

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-76

Page 1 of 7

LOGGED BY DAN

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au o/t	Ag o/t	CHECK
									BROWN						.001	<	
05															.001	<	
10															<	<	
15															<	<	
20															<	<	
25															<	.10	
30															<	<	
35															<	.17	
40															<	<	
45		~							CHOCOLATE BROWN					50'-75'	.001	.33	
50		~ OX							GREAY-RUST					OXIDIZED, MODERATE-STRONG ARGILLIC	.008	.35	
55		~ OX												ALTERATION - GRANULAR TUFF. MAY	.003	<	
60		~ OX												BE SLIGHTLY FRAGMENTAL, POSSIBLE	.002	.12	
65		~ OX												"GHOSTS" OBSERVED IN OCCASIONAL CHIP	.001	<	
70		~ OX												DIFFICULT TO TELL DUE TO CLAYS	.003	<	
75		~							LT GREEN				±1%	EPICLASTIC TUFF & LOCAL FRAG'S OX RE	.001	.23	
80		~ XK												INTERVALS. 75'-305' STRONG ARGILLIC	.004	<	
85		~ XC												ALTERATION. OVERALL GRANULAR TEXTURE	.002	.33	
90		~ XC												& UPTO 3% FINE SCATTERED SULFIDES, FINE QTZ STRINGER AND CHALCEDONIC VEINING. LOCAL.	.003	.13	
95		~													.005	.30	
100																	

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-76

Page 2 of 7

LOGGED BY DAN

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au g/t	Ag g/t	CHECK
		~							LT GREEN				<1%		.012	.69	
05		~													.007	.63	
10		~													.005	.31	
15		~													.002	.13	
20		~													.003	<	
25		~													.004	.13	
30		~													.002	<	
35		~													.006	.18	
40		~							LT GREEN + PEACH					BIT 145-255' BECOMES PREDOMINANTLY PEACH COLORED	.001	.28	
45		~													.003	.25	
50		~													.002	.24	
55		~													.007	<	
60		~ Xc												LARGE FLOW BANDED TUFF CLAST SUGGEST FRAGMENTAL PYROCLASTIC TEXTURE	.016	<	
65		~ Xc							LT PEACH						.002	<	
70		~ Xk												SULFIDES INCREASE SLIGHTLY	.002	<	
75		~											1-3%		.011	<	
80		~													.004	<	
85		~													.002	<	
90		~													.003	<	
95		~													.005	<	
200																	

WET

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-76

Page 3 of 7

LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au OH	Ag OH	CHECK	
		XK							LT PEACH				1-2%		.002	.10		
205		XK													.001	.23		
10															.002	<		
15															.006	<		
20		XX													.003	<		
25		XK P							LT PEACH + GREEN					LT GREEN COLOR APPEARS - SMECTITE ALTERATION? CHIPS HAVE VARIOLITIC MOTTLED	.002	<		
30		P												APPEARANCE	.006	<		
35															.003	.10		
40															.002	<		
45		XX													.003	<		
50		XK XK													.002	<		
55		XX							LT PEACH + GREEN						.003	<		
60															.006	<		
65		XK													.003	<		
70															.002	<		
75															.003	<		
80															.002	<		
85									MINT GREEN						.002	<		
90									PEACH BROWN					BL↓ FRAGMENTED LT GREEN CLASTS in DK PEACH MATRIX	.001	<		
95															.003	<		
300																		

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RC-76

Page 4 of 7

LOGGED BY DAM

FAULT RELOCATED FRAGMENTATION | FAULT
? PROPYLITIZATION

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
									BROWN PEACH				±1%		.003	<	
305		XX							BROWN PEACH? LT GREEN					FAULT GOUGE CLAY & FINE DISSEMINATED SULFIDES. PARTIALLY SILICIFIED	.005	<	
310		XX							LT GREEN GREY						.003	<	
315		XX							LT GREEN GREY					INTENSE SILICIFICATION RELATED TO FAULT FRAGMENTAL TEXTURE "GHOSTS"	.004	.68	
320		XX												VISIBLE IN CHPS 315 - 353	.004	<	
325		XX													.005	.44	
330		XX													.005	<	
335		XX													.012	<	
40		XX													.019	<	
345		XX													.007	<	
350		XX													.016	<	
355		P							GREY GREEN					GREY GREEN VOLCANICLASTIC, FINE GRAINED 355' - 455'	.004	<	
360		P													<	<	
365		P												DK BROWN FINE GRAINED DIKE w SLIGHT ARGILLIC ALTERATION	<	<	
370		P												WEAK PROPILITIC ALTERATION POSSIBLE SLIGHTLY BLEACHED	.001	<	
375		P													<	<	
380		P													<	<	
385		P													.002	<	
390		P													<	<	
395		P													<	<	
400																	

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RC-76

Page 5 of 7

LOGGED BY DAN

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au O/T	Ag O/T	CHECK	
		P							GREY GREEN				2%	COARSER SULFIDES	.001	<		
405		P											±		.001	<		
410		P													<	<		
415		P													<	<		
420		P												FRAGMENTED CHERT PRESENT	<	<		
425		P													<	<		
430		P												DK BROWN FINE GRAINED VOLCANICLASTIC ?	.002	.12		
435		P Ca													.001	<		
440		P													.001	<		
445		P							+LT GREEN						.001	<		
450		P												COARSE SULFIDES	.001	<		
455	DT	Xc							BLUE GREEN					DOZER EPICLASTIC TUFF & CALCEDONY FILLED VESICULES	.002	<		
460		Xc												BECOMING MORE WELDED W DEPTH 455 — 625.	.001	<		
465		Xc													.001	<		
470		Xc													<	<		
475		Xc													.001	<		
480		Xc													<	<		
485		Xc													<	<		
490		Xc													<	.19		
495		Xc													.001	.10		
500																		

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-76

Page 6 of 7

LOGGED BY DAM

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au o/t	Ag o/t	CHECK	
	DT	Xc							BLUE GREEN TO						.002	.2		
505		Xc							OLIVE GREEN						.001	.14		
510		Xc													<	<		
515		Xc												BECOMES MORE WELDED	<	<		
520		Xc													<	.13		
525		Xc													.001	<		
530		Xc													.001	<		
535		Xc													.001	<		
540		Xc													.001	<		
545		Xc													.001	<		
550		Xc													.001	<		
555		Xc													.001	<		
560		Xc													.001	<		
565		Xc													.001	<		
570		Xc													<	<		
575		Xc													.001	.10		
580		Xc													<	<		
585		Xc													.004	<		
590		Xc													<	<		
595		Xc													.001	.11		
600																		

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RC-76

Page 7 of 7

LOGGED BY Dtm

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au 0/4	Ag 0/B	CHECK	
	DT	Xc							OLIVE GREEN						.003	<		
05		Xc							DK GREEN GRAY						.002	<		
10		Xc							OLIVE GREEN						.001	<		
15		Xc													.001	<		
20		Xc													.002	<		
25																		
30																		
35																		
40																		
45																		
50																		
55																		
60																		
65																		
70																		
75																		
80																		
85																		
90																		
95																		
00																		

T.D.

NEVADA GSI

MAY 16 1990

GEOCHEMICAL ANALYSIS REPORT

May 10, 1990

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

POSTED 8-22-90

Number of Samples: 125
GSI Number: 7059
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1.	RL-76	0	5	0.001	-.10
2.	RL-76	5	10	0.001	-.10
3.	RL-76	10	15	-.001	-.10
4.	RL-76	15	20	-.001	-.10
5.	RL-76	20	25	-.001	-.10
6.	RL-76	25	30	-.001	0.10
7.	RL-76	30	35	-.001	-.10
8.	RL-76	35	40	-.001	0.17
9.	RL-76	40	45	-.001	-.10
10.	RL-76	45	50	0.001	0.33
11.	RL-76	50	55	0.008	0.35
12.	RL-76	55	60	0.003	-.10
13.	RL-76	60	65	0.002	0.12
14.	RL-76	65	70	0.001	-.10
15.	RL-76	70	75	0.003	-.10
16.	RL-76	75	80	0.001	0.23
17.	RL-76	80	85	0.004	-.10
18.	RL-76	85	90	0.002	0.33
19.	RL-76	90	95	0.003	0.13
20.	RL-76	95	100	0.005	0.30
21.	RL-76	100	105	0.012	0.69
22.	RL-76	105	110	0.007	0.63
23.	RL-76	110	115	0.005	0.31
24.	RL-76	115	120	0.002	0.13
25.	RL-76	120	125	0.003	-.10
26.	RL-76	125	130	0.004	0.13
27.	RL-76	130	135	0.002	-.10
28.	RL-76	135	140	0.006	0.18
29.	RL-76	140	145	0.001	0.28
30.	RL-76	145	150	0.003	0.25
31.	RL-76	150	155	0.002	0.24
32.	RL-76	155	160	0.007	-.10
33.	RL-76	160	165	0.016	-.10
34.	RL-76	165	170	0.002	-.10
35.	RL-76	170	175	0.002	-.10

1498 Kleppe Lane • Sparks, Nevada 89431 • FAX: 702/359-6605 • 702/359-6600

	Sample I.D.			Au o/t	Ag o/t
36.	RL-76	175	180	0.011	-.10
37.	RL-76	180	185	0.004	-.10
38.	RL-76	185	190	0.002	-.10
39.	RL-76	190	195	0.003	-.10
40.	RL-76	195	200	0.005	-.10
41.	RL-76	200	205	0.002	0.10
42.	RL-76	205	210	0.007	0.23
43.	RL-76	210	215	0.002	-.10
44.	RL-76	215	220	0.006	-.10
45.	RL-76	220	225	0.003	-.10
46.	RL-76	225	230	0.002	-.10
47.	RL-76	230	235	0.006	-.10
48.	RL-76	235	240	0.003	0.10
49.	RL-76	240	245	0.002	-.10
50.	RL-76	245	250	0.003	-.10
51.	RL-76	250	255	0.002	-.10
52.	RL-76	255	260	0.003	-.10
53.	RL-76	260	265	0.006	-.10
54.	RL-76	265	270	0.003	-.10
55.	RL-76	270	275	0.002	-.10
56.	RL-76	275	280	0.003	-.10
57.	RL-76	280	285	0.002	-.10
58.	RL-76	285	290	0.002	-.10
59.	RL-76	290	295	0.001	-.10
60.	RL-76	295	300	0.003	-.10
61.	RL-76	300	305	0.003	-.10
62.	RL-76	305	310	0.005	-.10
63.	RL-76	310	315	0.003	-.10
64.	RL-76	315	320	0.004	0.68
65.	RL-76	320	325	0.004	-.10
66.	RL-76	325	330	0.005	0.44
67.	RL-76	330	335	0.005	-.10
68.	RL-76	335	340	0.012	-.10
69.	RL-76	340	345	0.019	-.10
70.	RL-76	345	350	0.007	-.10
71.	RL-76	350	355	0.016	-.10
72.	RL-76	355	360	0.004	-.10
73.	RL-76	360	365	-.001	-.10
74.	RL-76	365	370	-.001	-.10
75.	RL-76	370	375	0.001	-.10
76.	RL-76	375	380	-.001	-.10
77.	RL-76	380	385	-.001	-.10
78.	RL-76	385	390	0.002	-.10
79.	RL-76	390	395	-.001	-.10
80.	RL-76	395	400	-.001	-.10
81.	RL-76	400	405	0.001	-.10
82.	RL-76	405	410	0.001	-.10
83.	RL-76	410	415	-.001	-.10
84.	RL-76	415	420	-.001	-.10

	Sample I.D.			Au o/t	Ag o/t
85.	RL-76	420	425	-.001	-.10
86.	RL-76	425	430	-.001	-.10
87.	RL-76	430	435	0.002	0.12
88.	RL-76	435	440	0.001	-.10
89.	RL-76	440	445	0.001	-.10
90.	RL-76	445	450	0.001	-.10
91.	RL-76	450	455	0.001	-.10
92.	RL-76	455	460	0.002	-.10
93.	RL-76	460	465	0.001	-.10
94.	RL-76	465	470	0.001	-.10
95.	RL-76	470	475	-.001	-.10
96.	RL-76	475	480	0.001	-.10
97.	RL-76	480	485	-.001	-.10
98.	RL-76	485	490	-.001	-.10
99.	RL-76	490	495	-.001	0.19
100.	RL-76	495	500	0.001	0.10
101.	RL-76	500	505	0.002	0.20
102.	RL-76	505	510	0.001	0.14
103.	RL-76	510	515	-.001	-.10
104.	RL-76	515	520	-.001	-.10
105.	RL-76	520	525	-.001	0.13
106.	RL-76	525	530	0.001	-.10
107.	RL-76	530	535	0.001	-.10
108.	RL-76	535	540	0.001	-.10
109.	RL-76	540	545	0.001	-.10
110.	RL-76	545	550	0.001	-.10
111.	RL-76	550	555	0.001	-.10
112.	RL-76	555	560	0.001	-.10
113.	RL-76	560	565	0.001	-.10
114.	RL-76	565	570	0.001	-.10
115.	RL-76	570	575	-.001	-.10
116.	RL-76	575	580	0.001	0.10
117.	RL-76	580	585	-.001	-.10
118.	RL-76	585	590	0.004	-.10
119.	RL-76	590	595	-.001	-.10
120.	RL-76	595	600	0.001	0.11
121.	RL-76	600	605	0.003	-.10
122.	RL-76	605	610	0.002	-.10
123.	RL-76	610	615	0.001	-.10
124.	RL-76	615	620	0.001	-.10
125.	RL-76	620	625	0.002	-.10

This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager