60001352

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-122
AUTHOR	R. Grondin
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; East Dreamland; Lac Minerals (USA), Inc.; Ehlund Drilling
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 400' handwritten notes 8p.

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)

	Initials	Date
SS:	DD	5/20/08
DB:	Mch	
SCANNED:		

Revised: 1/22/08

DRILL LOGS
ROSEBUD

RL-122
East Dreamland

60001352 4010

60001352

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL122 TOTAL DEPTH 400' LOGGED BY

Date started 10-05-90

Date completed 10-05-90

Initial bearing N20°W

Initial inclination -65°

Elevation 5464.2

Collar coordinates:

N 2206287.0

E 481789.2

Contractor: EKLund

Drill Type: MPD-1000

Hole Size: 4 3/4" hammer

Drilling Conditions: Good

Footage: Wet / Dry

Comments: Motherlode Shaft Area.

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	50		-65	N20°W			
50	150		-67	"			
150	250		-69	"			
250	350		-71	"			
350	400		-72	"			

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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

DRILL HOLE RL-122

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LOGGED BY KWT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
	B V V V								red-brown +gm					0-105 Collared (Cut Exposure) INTB N20W, -65° "Fresh" Start 9:30 Am red brown matrix, consolidated bedded, lithic lapilli tuff w/ clasts of lt maroon chocolate	<	<		
05	B V V V																	
10	B V V V															.36		
15	V B V V															.28		
20	V V B V															.26		
25	V V B V															.35		
30	B V V V															.14		
35	V V B V															<		
40	B V V V															<		
45	V V V															<		
50	B V V V															<		
55	V V B V															<		
60	B V V V															.26		
65	V V B V															.26		
70	V V B V															.15		
75	V V B V															.24		
80	V V B V															.20		
85	V V B V															.20		
90	B V V V															.18		
95	B V V V															.10		
100	B V V V															.28		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF
Badger
Intrusive (Dike or Sill)

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

DRILL HOLE RL-122

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LOGGED BY KAJT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
	B B								red-brown						<	.19		
/05																		
		~~							flesh + H gray				1%	105-145 H gray with mixed flesh argillic altered lithic lapilli tuff overall wk, sparse qtz sulfide veins probably altered TB???	<	.28		
/10																		
		~~							H gray + wk flesh				<1%		<	.23		
/15																		
		~~														.17		
/20																		
		~~												+ Abundant med gray pyrite veins		.14		
/25																		
		~~														<		
/30																		
		+ ~ ~											1%	med gray pyrite				
/35																		
		~~											<1%					
/40																		
		~~																
/45																		
		~~							lt gray to lt gray					145-160 H gray to lt gray, Aphanitic sachroidal texture + hornblende biotite bearing ti??				
/50																		
		~~							DK gray									
/55																		
		~~							"					+ fine gray hornblend + biotite??				
/60																		
		~~							lt gray + flesh				1-2%	160-195 lt gray to flesh clay altered w/ disseminated pyrite 1-2% (fine gray) lithic lapilli tuff [fine Qtz stockwk] (TB?) wk increasing stockwk silicification + med gray qtz pyrite veins				
/65																		
		~ + K ~							"									
/70																		
		~~							"									
/75																		
		+ K ~							"									
/80																		
		~~							H gray									
/85																		
		~ ~ + K							"									
/90																		
		~ XK							"									
/95														massive (to ½") qtz sulfide veins				
		~ XK ~							H gray, wkt H gray					195-300 lt gray, wkt lt gray clay altered lithic lapilli tuff — intense qtz stockwork flooding w/ less qtz				
200																		
														gray, sulfosalts? 200' @ 11:15				

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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

DRILL HOLE RL-122

LOGGED BY KNT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
		++							wht Flesh Htgrn				2-3%	Overall, slg silicified massive Qtz stockwk & flooding, + lock gray sulfo salts in qtz + dkgy alt lithic lapilli tuff	<.005	<.5		
205																		
210		++							"					si flooding to stockwork	<.005	.18		
215		XK							"						<.005	<.5		
220		XK							"						.003	<.5		
225		XK							dk gry Htgry					Qtz flooding to massive + mucasite Drop @ 225' 8gpm injecting H_2O	.003	.23		
230		xk							Flesh Htgry						.004	<.5		
235		xk							"						.002	<.5		
240		xk							"						<.005	<.5		
245		xk							"						.002	<.5		
250		XK							wht-Htgry					Qtz + sulfosalts	.019	5.19		
255		XK												sulfosalts, slg Qtz flooding	.014	2.66		
260		XK													.016	14.28		
265		XK												[BIK, shale? Frag? Bedrock riprap?]	.012	.36		
270		XK												Qtz-pyrite stockwk	.002	.31		
275		xk													.005	.19		
280		xk													<.005	.14		
285		XK xK												Fault picked Inj: 1-2 gpm H_2O 4-8 gpm Hole producing ± total 6gpm	.003	3.93		
290		XK													.004	1.83		
295		XK												Rod add @ 295'	<.005	<.5		
300		XK												20% Clay	.005	<.5		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF
Ti, w/ qtz phenocrysts

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

DRILL HOLE RL-122

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LOGGED BY KNT

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
									wht-lt grn				<1% fn diss	300-340 wht-lt grn to flesh, mod. argillic alt w/ wk silicific, lithic lapilli 15% clay <5% clay tuff	.004	<		
305																		
310															.003			
315															.029			
									lt grn + flesh						.002			
320																		
325														mod Add	.002			
330														hole producing ± 10 gpm H_2O	.034			
									gry-grn						.014			
335																		
340									"						.012			
									Lime grn					340-355 lime grn, intense clay altered, lithic lapilli tuff ?? w/ med grn diss pyrite	.021			
345																		
									"						.012			
350																		
									red brwn + grn						.007			
355																		
									red-brwn					355-400 Ti red-brwn, aphanitic qtz eye (to 1/16") intrusive + $CaCO_3$	.009			
360																		
365															.008			
370														40% Clay	<	.18		
375															<	<		
380																		
385																		
390																		
395																		
400																		

	SAMPLE I.D.				Au o/t	Ag o/t
38.	RL 121	90	175	180	-0.001	-0.10
39.	RL 121	90	180	185	-0.001	-0.10
40.	RL 121	90	185	190	-0.001	-0.10
41.	RL 121	90	190	195	-0.001	-0.10
42.	P-18				.075	.13
43.	RL 121	90	195	200	-0.001	.13
44.	RL 121	90	200	205	-0.001	-0.10
45.	RL 121	90	205	210	-0.001	-0.10
46.	RL 121	90	210	215	-0.001	-0.10
47.	RL 121	90	215	220	-0.001	.12
48.	RL 121	90	220	225	.001	-0.10
49.	RL 121	90	225	230	.001	.12
50.	RL 121	90	230	235	.001	-0.10
51.	RL 121	90	235	240	-0.001	-0.10
52.	RL 121	90	240	245	-0.001	-0.10
53.	RL 121	90	245	250	-0.001	-0.10
54.	RL 121	90	250	255	-0.001	.10
55.	RL 121	90	255	260	-0.001	.18
56.	RL 121	90	260	265	-0.001	.17
57.	RL 121	90	265	270	-0.001	-0.10
58.	RL 121	90	270	275	-0.001	-0.10
59.	RL 121	90	275	280	-0.001	.23
60.	RL 121	90	280	285	-0.001	-0.10
61.	RL 121	90	285	290	-0.001	.20
62.	P-19				.029	.31
63.	RL 121	90	290	295	-0.001	.22
64.	RL 121	90	295	300	-0.001	.14
65.	RL 122	90	0	5	-0.001	-0.10
66.	RL 122	90	5	10	-0.001	.36
67.	RL 122	90	10	15	-0.001	.28
68.	RL 122	90	15	20	-0.001	.26
69.	RL 122	90	20	25	-0.001	.35
70.	RL 122	90	25	30	-0.001	.14
71.	RL 122	90	30	35	-0.001	-0.10
72.	RL 122	90	35	40	-0.001	-0.10
73.	RL 122	90	40	45	-0.001	-0.10
74.	RL 122	90	45	50	-0.001	-0.10
75.	RL 122	90	50	55	-0.001	-0.10
76.	RL 122	90	55	60	-0.001	.26
59.	RL 122	90	60	65	-0.001	.26
78.	RL 122	90	65	70	-0.001	.15
79.	RL 122	90	70	75	-0.001	.24
80.	RL 122	90	75	80	-0.001	.20
81.	RL 122	90	80	85	-0.001	.20
82.	P-20				.028	.25
83.	RL 122	90	85	90	-0.001	.18
84.	RL 122	90	90	95	-0.001	.10
85.	RL 122	90	95	100	-0.001	.28
86.	RL 122	90	100	105	-0.001	.19
87.	RL 122	90	105	110	-0.001	.28

	SAMPLE I.D.				Au o/t	Ag o/t
88.	RL 122	90	110	115	-0.001	.23
89.	RL 122	90	115	120	-0.001	.17
90.	RL 122	90	120	125	-0.001	.14
91.	RL 122	90	125	130	-0.001	-0.10
92.	RL 122	90	130	135	-0.001	-0.10
93.	RL 122	90	135	140	-0.001	-0.10
94.	RL 122	90	140	145	-0.001	-0.10
95.	RL 122	90	145	150	-0.001	-0.10
96.	RL 122	90	150	155	-0.001	-0.10
97.	RL 122	90	155	160	-0.001	-0.10
98.	RL 122	90	160	165	-0.001	-0.10
99.	RL 122	90	165	170	-0.001	-0.10
100.	RL 122	90	170	175	-0.001	-0.10
101.	RL 122	90	175	180	-0.001	-0.10
102.	RL 122	90	180	185	-0.001	-0.10
103.	P-21				.077	-0.10
104.	RL 122	90	185	190	-0.001	-0.10
105.	RL 122	90	190	195	-0.001	-0.10
106.	RL 122	90	195	200	-0.001	-0.10
107.	RL 122	90	200	205	-0.001	-0.10
108.	RL 122	90	205	210	-0.001	.18
109.	RL 122	90	210	215	-0.001	-0.10
110.	RL 122	90	215	220	.003	-0.10
111.	RL 122	90	220	225	.003	.23
112.	RL 122	90	225	230	.004	-0.10
113.	RL 122	90	230	235	.002	-0.10
114.	RL 122	90	235	240	-0.001	-0.10
115.	RL 122	90	240	245	.002	-0.10
116.	RL 122	90	245	250	.019	5.19
117.	RL 122	90	250	255	.014	2.66
118.	RL 122	90	255	260	.016	14.28
119.	RL 122	90	260	265	.012	.36
120.	RL 122	90	265	270	.002	.31
121.	RL 122	90	270	275	.005	.19
122.	P-22				.032	-0.10
123.	RL 122	90	275	280	-0.001	.14
124.	RL 122	90	280	285	.003	3.93
125.	RL 122	90	285	290	.004	1.83
126.	RL 122	90	290	295	-0.001	-0.10
127.	RL 122	90	295	300	.007	-0.10
128.	RL 122	90	300	305	.004	-0.10
129.	RL 122	90	305	310	.003	-0.10
130.	RL 122	90	310	315	.029	-0.10
131.	RL 122	90	315	320	.002	-0.10
132.	RL 122	90	320	325	.002	-0.10
133.	RL 122	90	325	330	.034	-0.10
134.	RL 122	90	330	335	.014	-0.10
135.	RL 122	90	335	340	.012	-0.10
136.	RL 122	90	340	345	.021	-0.10
137.	RL 122	90	345	350	.012	-0.10

	SAMPLE I.D.				Au o/t	Ag o/t
138.	RL 122	90	350	355	0.007	-0.10
139.	RL 122	90	355	360	0.009	-0.10
140.	RL 122	90	360	365	0.008	-0.10
141.	RL 122	90	365	370	-0.001	0.18
142.	P-23				~~0.071~~	~~-0.10~~
143.	RL 122	90	370	375	-0.001	-0.10
144.	RL 122	90	375	380	-0.001	-0.10
145.	RL 122	90	380	385	-0.001	-0.10
146.	RL 122	90	385	390	-0.001	-0.10
147.	RL 122	90	390	395	-0.001	-0.10
148.	RL 122	90	395	400	-0.001	-0.10
149.	P-24				0.028	0.21

This report approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director