60001365

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-135
AUTHOR	K. Tuller
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.; Eklund Drilling
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 300'; handwritten notes Sp.

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 5/20/08
Initials Date
DB: mah
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

DRILL LOGS RL-135
ROSEBUD East Dreamland

60001365 4010

60001365

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-135 TOTAL DEPTH 300' LOGGED BY KNT

Date started 10-07-90 7AM

Date completed 10-08-90 8:30AM

Initial bearing N20E

Initial inclination -45°

Elevation 5498.9

Collar coordinates:

N 2206838.0

E 480616.0

Contractor: EKLUND

Drill Type: MPD-1000 Buggy

Hole Size: 4 3/4" hammer

Drilling Conditions: good

Footage: Wet / Dry Dry Ø-220'

WET 220'-300'

Comments: MPD-1000 lost compressor (major hydraulic leak) @ 9:30AM 10-07. Drilling conditions good. RB-9 ~ 100' N.

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF
Lithic Lapilli Tuff, Tcg gator

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

DRILL HOLE RL-135

Page 1 of 3

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.
		Ox							H gry w/ red-brown coating					0-40 H gry, unaltered, oxidized red, hematite stained start 7AM	<	<		
05														lithic lapilli tuff 10-07-90 probably Tcg gator				
10																<		
15																<		
20																<		
25																<		
30																.10		
35																<		
40																.14		
45		Ox Bk							maroon					40-45 Bleached Tcg, wk limonite 10% clay + clay altered		<		
50		Ox							H gry - wk orange					50-135 H gm, mod argillized, overall wk Si, massive qtz, pyrite and (CAL wk) yellow fines < 5% clay		<		
55		Ox							"					Lithic lapilli tuff (gator ??) "	.001	.14		
60		Ox							"					oxidized reduced	<	<		
65		xx							wht - H grn + wk flesh				1-2% diss		<	<		
70		xx							"					Quartz + sulfide	<	.19		
75		xx							"						.001	.22		
80		xx							"						<	.19		
85		xx							"						<	.12		
90		xx							"						<	<		
95		xx							"						.001	.16		
100		xx							"					Qtz vn w/ coarse cubic pyrite, abundant.	.013	.35		
														100' @ 7:50 AM				

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF
Ti, hornblend

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

DRILL HOLE RL-135

Page 2 of 3

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 gry + wk flash				<1% diss		<	<		
105																		
110																		
115																		
120																		
125																		
130																		
135															.001			
140									lt gry + red brown					135-170 lt gry + red-brown, oxide coating, fresh, lithic lapilli tuff w/overall wk CaCO3	<	.14		
145		Ca												wk CaCO3 (1/4 to 1/2")		<		
150		Ca																
155		Ca																
160																		
165																		
170																		
175									lt blue-gry					170-180 lt blue-gry, aphanitic, hornblend bearing intrusive ??				
180									"									
185									lt gry + flash				1-2%	180-195 lt gry to flash, mod argillically altered, wk silicified w/ wk Fe ox diss & on pyrite lithic lapilli tuff??				
190									"				"					
195									"				"					
200														195-200 Ti w/in hornblende? phenos, + diss sulfides 195-200 Damp Fault?				
														200' @ 8:50 AM				

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF
Intrusive, qtz phenos, aphanitic

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

DRILL HOLE RL-135
Page 3 of 3
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.
		~							red, brown					200-220 red brown lithic lapilli to a debris what?? Associated with Ti below?? v. wk Arg.	<1	<1		
205		~													<1	<1		
210		~													<1	.10		
215		~													<1	.12		
220									grey blk					Began injecting H_2O @ 220' 220-300 grey-blk to red brown, (oxidized sulfides, hematite) qtz phenocryst (<1/16") Ti intrusive; aphanitic	<1	.16		
225									"						<1	.10		
230									"						.001	<1		
235									"						<1	.13		
240		Ox							red brown to grey-blk					240' rig down @ 9:30 AM - Blew Compressor Hydraulic line (rod) Start 7:30 AM 10-08-90 Ice water on Bucket!	<1	.17		
245		Ox							"						<1	<1		
250		Ox							"					(rod)	<1	.17		
255		Ox							"						<1	<1		
260		Ox							"					(rod)	<1	.12		
265		Ox							"						<1	.11		
270		Ox							"					(rod)	<1	<1		
275		Ox							"						<1	.14		
280		Ox							"					(rod)	<1	<1		
285		Ox							"						<1	.20		
290		Ox							"					(rod)	<1	<1		
295		Ox							"						<1	.16		
300														TD = 300' @ 8:30 AM				

LAC MINERALS
LOT I.D. #: 8611

	SAMPLE I.D.			Au o/t	Ag o/t
275	RL-125	295	300	-0.001	-0.10
276	RL-135	0	5	-0.001	-0.10
277	RL-135	5	10	-0.001	-0.10
278	RL-135	10	15	-0.001	-0.10
279	RL-135	15	20	-0.001	-0.10
280	RL-135	20	25	-0.001	-0.10
281	RL-135	25	30	-0.001	0.10
282		P-71		~~0.030~~	~~0.18~~
283	RL-135	30	35	-0.001	-0.10
284	RL-135	35	40	-0.001	0.14
285	RL-135	40	45	-0.001	-0.10
286	RL-135	45	50	-0.001	-0.10
287	RL-135	50	55	0.001	0.14
288	RL-135	55	60	-0.001	-0.10
289	RL-135	60	65	-0.001	-0.10
290	RL-135	65	70	-0.001	0.19
291	RL-135	70	75	0.001	0.22
292	RL-135	75	80	-0.001	0.19
293	RL-135	80	85	-0.001	0.12
294	RL-135	85	90	-0.001	-0.10
295	RL-135	90	95	0.001	0.16
296	RL-135	95	100	0.013	0.35
297	RL-135	100	105	-0.001	0.15
298	RL-135	105	110	-0.001	0.14
299	RL-135	110	115	-0.001	-0.10
300	RL-135	115	120	-0.001	0.14
301	RL-135	120	125	-0.001	0.12
302		P-72		~~0.076~~	~~0.10~~
303	RL-135	125	130	-0.001	0.16
304	RL-135	130	135	0.001	-0.10
305	RL-135	135	140	-0.001	-0.10
306	RL-135	140	145	-0.001	0.17
307	RL-135	145	150	-0.001	0.12
308	RL-135	150	155	-0.001	-0.10
309	RL-135	155	160	-0.001	-0.10
310	RL-135	160	165	-0.001	0.11
311	RL-135	165	170	-0.001	-0.10
312	RL-135	170	175	-0.001	-0.10
313	RL-135	175	180	-0.001	-0.10
314	RL-135	180	185	-0.001	-0.10
315	RL-135	185	190	-0.001	-0.10
316	RL-135	190	195	-0.001	-0.10
317	RL-135	195	200	-0.001	-0.10
318	RL-135	200	205	-0.001	-0.10
319	RL-135	205	210	-0.001	-0.10
320	RL-135	210	215	-0.001	0.10
321	RL-135	215	220	-0.001	0.12
322		P-73		~~0.019~~	~~0.10~~

LAC MINERALS
LOT I.D. #: 8611

	SAMPLE I.D.			Au o/t	Ag o/t
323	RL-135	220	225	-0.001	0.16
324	RL-135	225	230	-0.001	0.10
325	RL-135	230	235	0.001	-0.10
326	RL-135	235	240	-0.001	0.13
327	RL-135	240	245	-0.001	0.17
328	RL-135	245	250	-0.001	-0.10
329	RL-135	250	255	-0.001	0.17
330	RL-135	255	260	-0.001	-0.10
331	RL-135	260	265	-0.001	0.12
332	RL-135	265	270	-0.001	0.11
333	RL-135	270	275	-0.001	-0.10
334	RL-135	275	280	-0.001	0.14
335	RL-135	280	285	-0.001	-0.10
336	RL-135	285	290	-0.001	0.20
337	RL-135	290	295	-0.001	-0.10
338	RL-135	295	300	-0.001	0.16
339		P-74		0.083	0.10

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This report reviewed and approved by:

Jerry Gaige

Jerry Gaige, Production Manager