60001295

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. RE-60
AUTHOR	K. Kennel
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; Echlund Drilling Lac Minerals (USA) Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 617' handwritten notes 10p.

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: mph
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

DRILL LOGS RE-60
Rosebud

60001295 4010

6000 1295

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RE-60 TOTAL DEPTH 617' LOGGED BY KLK

Date started Mar 13, 1990 0-275 till 3pm; went to get cement

Date completed MAR 14, 1275 → 617' @ 2:05pm

Initial bearing S56E

Initial inclination -63°

Elevation 5225.0

Collar coordinates:

N 2203692.0

E 481416.3

Contractor: ECKLUND DRILLING

Drill Type: MPD-1000 RVC

Hole Size: hammer 4 3/4"

Drilling Conditions: Good

Footage: Wet / Dry Dry: 0-275

WET: 275-617'

Comments: 2nd's taken starting @ 315'

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	50		-63	S56E			
50	150		-64	"			
150	250		-65	"			
250	350		-66	"			
350	450		-67	"			
450	550		-68	"			
550	617		-68	"			

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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 RE-60

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LOGGED BY KLK

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
		XX XC XK							orange bub				tr limon red/brn ply	0-25 Silicified bleached caprock! poss fine grained	.001	<		
05		XX XC XK							"				"	weakly to mod. oxidized weak to mod. pervasive limon clay fine grained stockwork	.001	<		
10		XX XC XK							"				"	may well be - alt Bud	.001	<		
15		XX XC XK							"				"		.002	<		
20		XX XC XK							"				"		.001	<		
25		XC P							orange bub				≤1% limon red/brn ply	25-150 Green bud breccia w/ intermittent tuffaceous beds	<	<		
30		XC P							"				"	weak to pervasive oxidiz local great chalcedony and local white green clays weak	<	.11		
35		XC P							"				"	perv. clay alt to intermit bleaching	<	.13		
40		XC PP							green w/ hint orange				"		<	<		
45		XC PP							"				"		.001	<		
50		PP							"				"		<	<		
55		XC PP							"				"		<	<		
60		XC PP							"				"		.002	<		
65		XC P							"				"	65-75 ↑ lt hint mod green white clays	.001	.13		
70		P							"				"		<	.14		
75		XC PP							"				"		.002	.24		
80		XC PP							"				"		<	<		
85		XC PP							"				"	Ox	<	.10		
90		XC PP							"				"	RE 90-100 ↑ chalcedony Bound. uns + ↓ perv limon	<	.12		
95		XC PP							"				"		<	.21		
100																		

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	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
		~ PP Xc Ca							green				<1% fine diss	25-150 same Bud @ above w/ ↑ tuffaceous component	<	.23		
105		~ PP Ca							"				tr VN py "	unoxidized, wk ↑ bleaching weakly-pur. calcareous ↓ chalcedony uno local	<	<		
110		~ PP Xv Ca							"				"	tr calcite vns, wk pur buff clay	<	<		
115		~ Ca PP							"				"		<	<		
120		~ Ca Xv PP							"				"		<	<		
125		~ Ca PP							"				"	125-135 mottled w/ dark purple gray coloration	<	<		
130		~ Ca PP							"				"		<	<		
135		~ Ca PP							"				"		<	<		
140		~ Ca PP							"				"		<	<		
145		~ Ca PP							"				"		<	<		
150		~ Ca P							hvy grn & buff				~1% diss + VN py	150-325 mottled light hvy green + buff Bud Breccia moderately pur	<	<		
155		~ Ca P							"				"	bleached weakly chloritic pur. calcareous, w/ local calcite/pyrite uno	.001	<		
160		~ Ca P							"				"		<	<		
165		~ Ca P							"				"		<	<		
170		~ Ca P							"				"		<	<		
175		~ Ca P							"				"		<	<		
180		~ Ca P							"				@ ≈2%		.001	<		
185		~ Ca P							"				"		.001	<		
190		~ Ca P							"				"		<	<		
195		~ Ca P							"				"		<	<		
200																		

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	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
	v	XK P							pulp tan/grn				±2% diss + VN	150-325 Bud Breccia same alteration @ above	.001	<	
205	v	XK P							"				py "	with predominant TUFF component 200-265 Are stockwork ±druzy qtz	.001	<	
210	v	XK P							"				"	VNS perv bleached weak+ perv argillic clay alt + weakly perv. calcareous	.001	<	
215	v	XK P							"				"		.001	<	
220	v	XK+VN P							"				"		.001	<	
225	v	XK P							"				"		.001	<	
230	v	XK P							"				"		.002	<	
235	v	XK P							"				"		.001	<	
240	v	XK P							"				"		.006	<	
245	v	XK P perv							"				"		.009	<	
250	v	XK P							"				"	250-275 ↑ perv argillic white clay alt.	.002	<	
255	v	XK P							"				"		.002	<	
260	v	XK P							"				"		.001	<	
265	v v v	XK P							"				"	265-300 very light mottled pink, green fragmental w/ ↓ green ↑ pink	.001	<	
270	v v v	XK P							"				"		<	<	
275	v v v	XK P							"				±2% diss + VN py	WENT TO H2O	<	<	
280	v v v	XK P							"				"		<	<	
285	v v v	XK P							"				"		.002	<	
290	v v v	XK P							"				"		.006	<	
295	v v v	XK P							"				"	wk ↑ white clay alt	.008	<	
300																	

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		HH							white buff				2-3% diss + vn py	300-325 Moderatly strong bleached fragmental Bud weak to mod white clay	.003	<	
305		HH							"				"	local brecciation mod pvr druzy qtz sulfide vns nearby pvr silicif	.009	.26	
310		HH							"				"		.003	<	
315		HH							"				"	2nd's taken	.002	<	
320		HH							"				"	brecciated; silicified	.008	<	
325		XK PP							green				+2% diss + vn py	325-345 mottled green white fine grain w/ green fine chaced? stockwork	.005	<	
330		XC XK PP							"				"	probable tuff w/ local fragmental text. pvr. bleached w/ green	.017	2.2	
335		XC XK PP							"				"	nontronite stockworking	.067	1.56	
340		XK PP							"				"		.001	<	
345		P							buff flesh + hint grn				±2% diss ± vn py	345-425 mixed buff flesh and sr. hint green	.002	<	
350		XK P							"				"	Bud Breccia pyroclastic mod pvr. bleaching weak local druzy qtz	.001	.27	
355		XK P							"				"	sulfide veins; local chalcedony vns local microbreccia vns	.001	1.54	
360		P							"				"	345-395 mixed flesh-buff; hint green	<	.70	
365		P							"				"	2% contaminat	.002	.43	
370		P							"				"		.004	1.06	
375		HH P							"				"		.004	.98	
380		Ca P							"				"	local xk calcite vns	.022	.21	
385		P							"				"		.015	<	
390		P							"				"		.051	<	
395		XK							flesh				"	395-425 ↓ green to purely buff	.005	<	
400														to flesh coloration poss more of a tuff breccia			

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	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
	Δ	~							opaq white to buff				3-4% diss + vn py	395-425 Bud Tuff Breccia, perv. wk argillic	.006	<		
105	Δ	~							"				"	alt - flesh coloration weak chalcedony + local fine qtz stockwork	.018	<		
110	Δ	~ XK							"				"		.013	<		
115	Δ	~ Xc							"				"		.324	2.09		
120	Δ	~ Xc							"				"		.173	1.06		
125	V V	~ XK Ca							lt green ± pnk				+2% diss + vn py	425-485 LBT FGT w/ local fragmental, weak perv.	.287	2.39		
130	V	~ XK Ca							"				"	smectite alt mottled green pink, local fine qtz stkwk locally encap. pyrite	.025	.13		
135	V	~ XK Ca							"				"	weakly calcareous to wk calcite veining	.052	.29		
140		~ XK Ca							"				"		.017	<		
145	V V	~ XK Ca							"				"		.027	<		
150	V	~ XK Ca							"				"		.005	<		
155		~ XK Ca							"				"		.003	<		
160	V V	~ XK Ca							"						.003	<		
165	V V V	~ XK Ca							"					465-485 transitional alteration change wk ↑ perv. bleaching	.005	<		
170	V	~ XK Ca							"				± 3%	mod stv calcite veining	.002	<		
175	V V	~ XK Ca							"				"		.015	<		
180	V V	~ XK Ca							"				"		.007	<		
185	Δ Δ	~ XK							PEACH BUFF				3% diss + vn py	485-595 BRECCIA PEACH TO GRAY WHITE TUFF LOCALLY local chalcedony	.008	.18		
190	Δ Δ	~ XK							"				"	vns, wk perv. bl poss. tr silicif.	.001	<		
195	Δ Δ	~ XK							"				"		.009	.19		
200																		

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		XK Ca							PERCH TO GRAY BUFF				±3% diss tvn py	485-595 TUFF LOCALLY BRECCIATED local chalced	.008	.17	
505		XK							"				"	only veins, local fine stockw qtz, weak peru bleaching local calcite veins	.022	3.99	
510		XC							"				"	wkly pvv silicif. weak green hue pervasively local tr white clay ± py vns	.017	1.7	
515									"				"		.069	2.52	
520									"				"		.054	2.32	
525		XK							"				"		.042	.94	
530		XC							"				"		.052	.64	
535		XK XC							"				"		.018	.16	
540		XC							"				"		.030	1.26	
545		XC XK							"				"		.149	1.02	
550		XK							"				"		.015	.14	
555		XC XK							"				"		.012	.24	
560		XK							"				"		.005	.13	
565		XK XC							"				"		.006	<	
570		XK XC							"				±2% diss tvn py	570-600 ↑ peru chalcedonic silicific.	.019	<	
575		XC							"				"		.063	.11	
580		XC							"				"	strong calcite veining	.004	.10	
585		XC							"				"	mod calcite veining	.001	.15	
590		XC							"				"	↓	<	<	
595		XK XC							"				"		<	<	
600																	

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	DT	XK							lt sage green				2% diss + vn py	600-617 Densely welded Dozer FGT, lt sage green	<	<		
605	DT	XK							"				"	600-605 probable fault zone - large broken frag area	<	<		
610	DT	XK							"				"	→ weakly bleached poss w/ silicification	<	<		
615														615-617	.01	.29		
20														T.D. 617 broke boor valve				
25														and virtually H2O'd out				
30																		
35																		
40																		
45																		
50																		
55																		
60																		
65																		
70																		
75																		
80																		
85																		
90																		
95																		
00																		

GSI 6745

	Sample I.D.			Au o/t	Ag o/t
83	RE-59	300	305	0.020	0.20
84	RE-59	305	310	0.015	<.10
85	RE-59	310	315	0.007	0.10
86	RE-59	315	320	0.014	0.31
87	RE-59	320	325	0.006	<.10
88	RE-59	325	330	0.006	<.10
89	RE-59	330	335	0.006	<.10
90	RE-59	335	340	0.007	<.10
91	RE-59	340	345	0.007	0.16
92	RE-59	345	350	0.022	<.10
93	RE-59	350	355	0.020	0.22
94	RE-59	355	360	0.021	<.10
95	RE-59	360	365	0.010	<.10
96	RE-59	365	370	0.009	<.10
97	RE-59	370	375	0.011	<.10
98	RE-59	375	380	0.027	<.10
99	RE-59	380	385	0.012	<.10
100	RE-59	385	390	0.004	<.10
101	RE-59	390	395	0.003	<.10
102	RE-59	395	400	0.002	<.10
103	RE-59	400	405	0.001	<.10
104	RE-60	0	5	0.001	<.10
105	RE-60	5	10	0.001	<.10
106	RE-60	10	15	0.001	<.10
107	RE-60	15	20	0.002	<.10
108	RE-60	20	25	0.001	<.10
109	RE-60	25	30	<.001	<.10
110	RE-60	30	35	<.001	0.11
111	RE-60	35	40	<.001	0.13
112	RE-60	40	45	<.001	<.10
113	RE-60	45	50	0.001	<.10
114	RE-60	50	55	<.001	<.10
115	RE-60	55	60	<.001	<.10
116	RE-60	60	65	0.002	<.10
117	RE-60	65	70	0.001	0.13
118	RE-60	70	75	<.001	0.14
119	RE-60	75	80	0.002	0.24
120	RE-60	80	85	<.001	<.10
121	RE-60	85	90	<.001	0.10
122	RE-60	90	95	<.001	0.12
123	RE-60	95	100	<.001	0.21
124	RE-60	100	105	<.001	0.23
125	RE-60	105	110	<.001	<.10
126	RE-60	110	115	<.001	<.10
127	RE-60	115	120	<.001	<.10
128	RE-60	120	125	<.001	<.10
129	RE-60	125	130	<.001	<.10
130	RE-60	130	135	<.001	<.10

	Sample I.D.			Au o/t	Ag o/t
227	RE-60	615	617	0.010	0.29
228	RE-61	0	5	<.001	<.10
229	RE-61	5	10	<.001	<.10
230	RE-61	10	15	<.001	<.10
231	RE-61	15	20	<.001	<.10
232	RE-61	20	25	<.001	<.10
233	RE-61	25	30	<.001	<.10
234	RE-61	30	35	<.001	<.10
235	RE-61	35	40	0.002	<.10
236	RE-61	40	45	0.002	<.10
237	RE-61	45	50	0.002	0.11
238	RE-61	50	55	0.002	<.10
239	RE-61	55	60	0.001	<.10
240	RE-61	60	65	0.001	<.10
241	RE-61	65	70	0.002	<.10
242	RE-61	70	75	0.002	0.14
243	RE-61	75	80	0.002	<.10
244	RE-61	80	85	0.003	0.15
245	RE-61	85	90	0.002	<.10
246	RE-61	90	95	0.003	<.10
247	RE-61	95	100	0.002	<.10
248	RE-61	100	105	0.002	<.10
249	RE-61	105	110	0.003	0.16
250	RE-61	110	115	0.004	<.10
251	RE-61	115	120	0.003	0.12
252	RE-61	120	125	0.002	0.21
253	RE-61	125	130	0.003	0.16
254	RE-61	130	135	0.004	0.17
255	RE-61	135	140	0.004	<.10
256	RE-61	140	145	0.003	<.10
257	RE-61	145	150	0.005	0.13
258	RE-61	150	155	0.003	0.13
259	RE-61	155	160	0.002	0.18
260	RE-61	160	165	<.001	0.10
261	RE-61	165	170	<.001	<.10
262	RE-61	170	175	0.003	<.10
263	RE-61	175	180	0.002	<.10
264	RE-61	180	185	<.001	<.10
265	RE-61	185	190	<.001	<.10
266	RE-61	190	195	<.001	<.10
267	RE-61	195	200	0.002	<.10
268	RE-61	200	205	0.007	0.11
269	RE-61	205	210	<.001	<.10
270	RE-61	210	215	<.001	<.10
271	RE-61	215	220	<.001	<.10
272	RE-61	220	225	0.002	<.10
273	RE-61	225	230	0.001	<.10
274	RE-61	230	235	0.009	<.10