60001294

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-59
AUTHOR	K. Kenner
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; Lac Minerals (USA) Inc; Echlund Drilling [redacted]
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 405' 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)

Revised: 1/22/08

	Initials	Date
SS:	DD	5/19/08
DB:	mab	
SCANNED:		

DRILL LOGS
Rosebud

RE-59

60001274 4016 ✓

66061294

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RE-59 TOTAL DEPTH 405' LOST LOGGED BY KLK

Date started March 12, 1990 0-250' ~2:30 pm
Mar. 13
Date completed 250-405 10 AM

Initial bearing S 55.5° E

Initial inclination -63°

Elevation 5226.3

Collar coordinates:

N 2203687.0

E 481426.3

Contractor: ECKLUND DRILLING

Drill Type: MPD-1000 reverse circ.

Hole Size: hammer 4 3/4"

Drilling Conditions: good until blow out

Footage: Wet / Dry Dry: 0-250'

WET: 250 to T.D.

Comments: hit H2O @ 250'
@ 405 lost hole due to H2O blow out - underground blowout cave filled w/ abandonment mud on way out

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLINATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	50		-63	S 55.5 E			
50	150		-65	"			
150	250		-67	"			
250	350		-69	"			
350	405		-70	"			

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

CHOCOLATE TUFF	ARGILLIC
BUD BRECCIA	XX SILICIFICATION
BUD TUFF	OX OXIDIZED
BUD EPICLASTIC	DRUZY QUARTZ
BUD TUFF BRECCIA	XC CHALCEDONIC QUARTZ
DT DOZER WELDED TUFF	XK STOCKWORK QUARTZ
	P P P PROPYLITIZATION
	Ca CALCITE

DRILL HOLE RE-59

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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
									buff to brn				≤1% limon replac	0-15 OVERBURDEN	<	<	
05									"				diss py "		.001	<	
10									"				"		.001	<	
15		XC X OX P							buff to grn				"	15-30 chalcedony rich fine grained	.001	<	
20		XC X OX P							"				"	silicious oxidized caprock w/ druzy qtz	.001	<	
25		XC X OX P							"				"	veins w/ FeOx clay fill v. wk smectite alt	<	<	
30		XC PP OX							tan + sea grn				"	30-100 smectite alt Bud breccia pyroclastic	.001	<	
35		XC PP OX							"				"	weak tan clays through out weakly pervoxidized predom @ veins	<	<	
40		XC P OX							"				"		.001	<	
45		XC OX							"				"	45-55 mod str buff clay alt	<	<	
50		XC P OX							"				"		<	<	
55		XC P OX							"				"	mod str white to buff clay	<	<	
60		XC P OX							"				"	60-75 mod lt brn clay	.001	<	
65		XC P OX							"				"		.003	<	
70		XC P OX							"				"		.003	<	
75		XC PP OX							"				"		<	<	
80		XC PP OX							"				"		<	<	
85		XC PP OX							"				"		<	<	
90		XC P OX							"				"		<	<	
95		XC P OX							"				"		<	<	
100									"				"				

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

DRILL HOLE RE-59

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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 VNS

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	
100	FINE GRAINED	ca							burg brn				—	100' RE/Ox Boundary 100-127 fine grained almost amphibolitic	<	<		
105	FINE GRAINED	ca							"				—	sil bursounded by chocolate brown in color w/ calcite veins relatively unalt	<	<		
110	BRECCIATED	ca							"				—	w/ very weak chlorite or smectite alt	<	<		
115	BRECCIATED	ca							"				—		<	<		
120	SILICIFIED	ca							"				—		<	<		
125									lt gren				≤1% diss py	127-165 lt sage grn	<	<		
130													py	clay alt brn grn bud tuff w/ py clay alt weak calcite	<	<		
135														perv. wk to mod lt grn white clays	<	<		
140									"				"		<	<		
145									"				"		<	<		
150									"				"		<	<		
155									"				"		<	<		
160		ca							"				"	LBT 165-255 mixed bleached	<	<		
165		xc							Bud white lt gren				+2% diss +VN	bud and lite grn brn grained tuff	<	<		
170									grn				py w/ trace Rbo vein	weakly perv. calc alt may not be a well altered fragmental?	.004	<		
175		xc							"				py	local chalcedonic and drusy qtz ± pyrite	<	<		
180									"				"		<	<		
185									"				"		<	<		
190									"				"		<	<		
195									"				"		<	<		
200									"				"		<	<		

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 RE-59

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	
		P							lt grey				±2% diss ±VN	165-255 fine grained tuff continued, pervasively	.002	∠		
205		P Xc							"				py	minor bleached intermittent pervasive chalcedony vns	.005	∠		
210		P Xc							"				"	with pervasive argillic clay alt	∠	∠		
215		Xc P							flesh to lt grey				"	215-227 Strong flesh colored chalcedony vns w/ assoc diss; vn py	.003	∠		
220		Xc P							"				"		.003	∠		
225		P Xc							"				"		.003	∠		
230		P Xc							buff to lt grey				"		.005	∠		
235		P Xc							"				"		.001	.15		
240		P Xc							"				"		.006	.21		
245		Xc P							"				"	245-255 mod lt gray clay WENT TO H2O - 250'	.015	.48		
250		Xc P							"				"		.008	.18		
255		XX P Xc							"				2% diss +VN py	255-285 possible fault zone fine grained tuff w/ pervasive chalcedonic stkwk	.005	∠		
260		XX P Xc							"				"	mod drusy qtz sulfide veins w/ white clay infill	.004	∠		
265		XX P Xc							"				" @ 3%	w/ blebby sulfides; mod gray white clay	.004	∠		
270		XX P Xc							lt grey + flesh to lt green				@ 3-4%		.004	∠		
275		XX P Xc							"				@ 2-3%		.005	.11		
280		XX P Xc							"				"		.007	∠		
285		P Xc							medium sea green				"	285-405 medium to lt green fine grained tuff, moderate pervasive clay alt w/ green fine stockwork chalcedony vns ↑ pervasive white clay alt	.011	∠		
290		PP Xc							"				"		.006	.10		
295		P							"				"		.006	∠		
300																		

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

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DRILL HOLE RE-59

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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

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	
		P							fr green				±3% diss +VN	300-410S fine grained Bud tuff w/ fine pyroclas	.02	.2		
305		XC P							"				py	Green vein w/ wisps mod pervas clay alt ⇒ white local flesh	.015	<		
310		XC P							"				"	Rebud chalcedony & 305-370 mod contamination up to 3-4%	.007	.10		
315		XC P							"				"	2% contam @ 315	.014	.31		
320		XC P							"				@ 2%	Quartz vein around casing due to H2O blowout	.006	<		
325		XC P							"				"		.006	<		
330		XC P							"				"	330-345 mod str white clay alt	.006	<		
335		XC P							"				"	2% contam @ 340	.007	<		
340		XC P							"				"		.007	.16		
345		XK P							"				"		.022	<		
350		XK XC P							"				"		.020	.22		
355		P							"				@ 2-3%		.021	<		
360		P							"				"		.010	<		
365		P							"				"	3-4% contam	.009	<		
370		XK XC P							"				@ 3%		.011	<		
375		XC XK P							"				"		.027	<		
380		X XC P							flesh + green				"	380-390 strong chalcedonic silicif + veining w/ assoc pyrite flesh bleb	.012	<		
385		X XC P							"				"		.004	<		
390		XC P							lt green				@ 2-3%		.003	<		
395		XC P							"				"		.002	<		
400		XC P							"				"		.001	<		
405																		

T.D.

NEVADA GSI GEOCHEMICAL SERVICES, INC.

APR 0 6 1990

GEOCHEMICAL ANALYSIS REPORT

March 29, 1990

Ms. Kristen Kenner
Lac Minerals USA, Inc.
1395 Greg Street #107
Sparks, Nv. 89431

Number of Samples: 292
Project: URBD
GSI Number: 6745
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	RE-58	535	540	0.010	0.55
2	RE-58	540	545	0.009	0.33
3	RE-58	545	550	0.014	0.33
4	RE-58	550	555	0.009	0.31
5	RE-58	555	560	0.013	0.36
6	RE-58	560	565	0.020	1.02
7	RE-58	565	570	0.041	1.38
8	RE-58	570	575	0.109	0.57
9	RE-58	575	580	0.030	0.94
10	RE-58	580	585	0.026	0.52
11	RE-58	585	590	0.018	0.27
12	RE-58	590	595	0.010	0.14
13	RE-58	595	600	0.015	<.10
14	RE-58	600	605	0.002	<.10
15	RE-58	605	610	0.003	<.10
16	RE-58	610	615	0.002	<.10
17	RE-58	615	620	0.009	<.10
18	RE-58	620	625	0.003	<.10
19	RE-58	625	630	0.003	<.10
20	RE-58	630	635	0.002	<.10
21	RE-58	635	640	0.002	<.10
22	RE-58	640	645	0.004	0.10
23	RE-59	0	5	<.001	<.10
24	RE-59	5	10	0.001	<.10
25	RE-59	10	15	0.001	<.10
26	RE-59	15	20	0.001	<.10
27	RE-59	20	25	0.001	<.10
28	RE-59	25	30	<.001	<.10
29	RE-59	30	35	0.001	<.10
30	RE-59	35	40	<.001	<.10
31	RE-59	40	45	0.001	<.10
32	RE-59	45	50	<.001	<.10
33	RE-59	50	55	<.001	<.10
34	RE-59	55	60	<.001	<.10

	Sample I.D.			Au o/t	Ag o/t
35	RE-59	60	65	0.001	<.10
36	RE-59	65	70	0.003	<.10
37	RE-59	70	75	0.003	<.10
38	RE-59	75	80	<.001	<.10
39	RE-59	80	85	<.001	<.10
40	RE-59	85	90	<.001	<.10
41	RE-59	90	95	<.001	<.10
42	RE-59	95	100	<.001	<.10
43	RE-59	100	105	<.001	<.10
44	RE-59	105	110	<.001	<.10
45	RE-59	110	115	<.001	<.10
46	RE-59	115	120	<.001	<.10
47	RE-59	120	125	<.001	<.10
48	RE-59	125	130	<.001	<.10
49	RE-59	130	135	<.001	<.10
50	RE-59	135	140	<.001	<.10
51	RE-59	140	145	<.001	<.10
52	RE-59	145	150	<.001	<.10
53	RE-59	150	155	<.001	<.10
54	RE-59	155	160	<.001	<.10
55	RE-59	160	165	<.001	<.10
56	RE-59	165	170	<.001	<.10
57	RE-59	170	175	0.004	<.10
58	RE-59	175	180	<.001	<.10
59	RE-59	180	185	<.001	<.10
60	RE-59	185	190	<.001	<.10
61	RE-59	190	195	<.001	<.10
62	RE-59	195	200	<.001	<.10
63	RE-59	200	205	0.002	<.10
64	RE-59	205	210	0.005	<.10
65	RE-59	210	215	<.001	<.10
66	RE-59	215	220	0.003	<.10
67	RE-59	220	225	0.003	<.10
68	RE-59	225	230	0.003	<.10
69	RE-59	230	235	0.005	<.10
70	RE-59	235	240	0.001	0.15
71	RE-59	240	245	0.006	0.21
72	RE-59	245	250	0.015	0.48
73	RE-59	250	255	0.008	0.18
74	RE-59	255	260	0.005	<.10
75	RE-59	260	265	0.004	<.10
76	RE-59	265	270	0.004	<.10
77	RE-59	270	275	0.004	<.10
78	RE-59	275	280	0.005	0.11
79	RE-59	280	285	0.007	<.10
80	RE-59	285	290	0.011	<.10
81	RE-59	290	295	0.006	0.10
82	RE-59	295	300	0.006	<.10

	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