60001394

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-167
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; East Dreamland Lac Minerals (USA), Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 800'; handwritten notes 12p.

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
Rosebud

RL-167
East Dreamland

60001394 4010

66001394

LAC

LAC MINERALS EXPL. (TEXAS) INC.

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-167 TOTAL DEPTH 800' LOGGED BY KLK

Date started _____

Date completed _____

Initial bearing _____

Initial inclination _____

Elevation 5311.2

Collar coordinates:

N 2205439

E 480957.4

Contractor _____

Drill Type _____

Hole Size _____

Comments _____

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Easting)	Y (Northing)	Z (Elevation)
0	800		-90	—			

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-167

Page 1 of 8

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	% WASH RECOV.
														0-40 OVERBURDEN	<	<		
05															<	<		
10															<	<		
15															<	<		
20															<	<		
25															<	<		
30															<	<		
35															<	<		
40		XX							burgundy burn + golden				poss tr limon replac	40-50 Red Brown FGT - poss Alluvium w/ golden clay alt to intermittent silic. FGT frags	.007	<		
45		XX							"				Py		<	<		
50	GOUGE CLAY								OFF WHITE				—	50-65 Intense clay gouge 50-60 off white color 60-65 golden color	<	<		
55													—		<	<		
60									Golden				—		.002	<		
65		XK OX							Lt green + wk golden				≤1% diss + vn Py	65- FINE GRAINED TUFF - slightly	<	<		
70														granular preclem buff to lt green w/ intermittent oxidization wk to mod perv. bleaching, weak	<	<		
75									Golden					fracturing w/ MgO + limonite fill + hematite, weak local druzy qtz sulfide vns	<	<		
80														73-91 mod strong perv golden (limonite) oxidation	<	<		
85															<	<		
90																		
95									Lt green + golden					91' poss rel ox boundary	<	<		
100									H. green						<	<		

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DRILL HOLE RL-167

Page 2 of 8

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	% WASH RECOV.
		XK							buff w/ wk green+arg				1-2% diss +vn py	FGT - CT vs LBT continued pervasively buff w/ intermittent lt green ± red orange coloration	<	<		
105														weakly granular texture wk perv. b/ wk argillic clay alt intermittent lt green clay (duck butter) red orange oxides assoc. w/ fractures, wk-mod perv. argillic clay alt. wk qtz-py stwk	<	<		
110															<	<		
115														speckled w/ golden orange oxides	<	<		
120															<	<		
125															<	<		
130															<	<		
135															<	<		
140															<	<		
145															<	<		
150															.001	<		
155															.001	<		
160													~3% diss +vn py		.001	<		
165														170-200 wk decrease in orange oxided fractures w/ ↑ mineralizat	.001	<		
170															<	<		
175															.008	.28		
180															.003	<		
185															.015	.14		
190															.014	.21		
195															.028	.26		
200																		

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DRILL HOLE RL-167

Page 3 of 8

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	% WASH RECOV.
		XK							lt. sage green				~3% diss + vn py	200-300 FGT - CT or LBT continued - description @ above	.012	.210		
205														w/ slightly less orange oxide fracts. & dissemination & pervu. lt green coloration	.008	<		
210													~2% diss + vn py		.003	<		
215															.006	<		
220															.001	<		
225															.002	.19		
230															.005	.210		
235															.002	.110		
240															.001	<		
245															.001	<		
250															<	<		
255															<	<		
260									lilac gray				NIL		<	<		
265									w/ burg burn fract surfaces					265-285 relatively fresh lilac gray	<	<		
270														CT or LBT w/ hemititic fracts	<	<		
275															<	<		
280															<	<		
285		XK												285-300 same @ above w/ green coloration - burg w/ red orange chalcedonic stkwk w/ poss argillic clay alt	<	<		
290									buff w/ splotchy orange & green						<	<		
295													~1% diss py		<	<		
300																		

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DRILL HOLE RL-167

Page 4 of 8

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	% WASH RECOV.
		~ XC							buff w/ mnt vars				~1% diss ≠VN py	300-335 FGT same @ above buff to red orange chalcedony fracture fill + stockworking	<	<		
305														weak prn bleaching granular texture	.001	.14		
310															.002	.39		
315															.001	.38		
320															.001	<		
325															.001	.12		
330															.001	<		
335		~							Reddish brown				NIL	335-458 Relatively unaltered FGT - locally lithic in texture @ 340-350, 355-375, 385-400 lithics are bleached w/ red brown matrix - virtually green	<	<		
340	✓														<	.24		
345	✓														<	<		
350															<	<		
355															<	<		
360	✓														<	<		
365	✓														<	<		
370	✓														<	<		
375															<	<		
380															<	<		
385	✓														<	<		
390	✓														<	<		
395	✓														<	<		
400	✓														<	<		

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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	% WASH RECOV.
		wk hemitite							lilac gray to red brown				NIL	400-457 unaltered red brown - lilac gray	<	<		
405														fine gr tuff - locally fragmental - relatively fresh	<	<		
410															<	<		
415															<	<		
420															<	<		
425															<	<		
430															<	<		
435															.002	<		
440															.001	<		
445															<	<		
450															<	<		
455									lr grun				1% disst VN py	457-485 FGT mod str prw. bleaching; argillic	.001	<		
460		xxx												clay alt. weak local druzy qtz sulfide veins weak prw. grun (glauconite?) alt.	.001	<		
465													~2% disst VN py		<	<		
470															.003	.110		
475															.001	<		
480															<	<		
485		x							bubb					480-530 prw. bl; clay alt. prw. bubb coloration weak druzy chalcedony fracture fill w/ local druzy qtz sulfide veins granular texture	.001	<		
490															<	<		
495															.001	<		
500																		

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Ca CALCITE

DRILL HOLE RL-167

Page 6 of 8

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	% WASH RECOV.
									buff				~1% diss +VN py	480-530 Same @ above - white bl irrd clay alt gradular texture	.001	<		
505															<	<		
510															<	<		
515															<	<		
520															<	<		
525									buff + lt green						<	<		
530													NIL	530-600 Lilac gray w/ hymatite alteration w/ local calcite veining FGT	<	<		
535									lilac gray w/ hmt					pervasive strong argillic clay alteration trace w/ green (chlorite?) alt	<	<		
540															<	<		
545															<	<		
550															<	<		
555															<	<		
560															<	<		
565															<	<		
570															.001	<		
575															<	<		
580															<	<		
585															.001	<		
590															.001	<		
595														w/ weathered white green clay	.001	<		
600																		

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Page 7 of 8

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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	% WASH RECOV.
		A X							peppered lt green gray + tan				2-3% diss + vn py	600 - 625 FGT - mod perv lt green clay alt w/ local amber brown silica	<	<		
605		Ca												matrix locally silicified & brecciated. weak - mod calcite veining - local	<	<		
610		Ca												peppered creamy orange yellow oxide wk qtz sulfide veins	<	<		
615		Ca													<	<		
620		Ca													<	<		
625	CLAY GOUGE								lt gray				+ 1% diss py	625 - 647 lt. gray clay gouge	.002	<		
630									"						.001	<		
635									"						.002	.110		
640									"						.001	<		
645									"				2% diss +	647 - 740 Poss. Lithic	<	<		
650		Ca + Xc							peppered tan + green + gray				vn py	LAPILLI TUFF: w/ alternating peppered	.001	<		
655		Ca												coloration due to preferential alteration - lt green clay matrix, tan (flesh) +	.004	<		
660		Ca												green clasts - lithics wkly bleached local amber brown chalcedony veins local	.002	<		
665													1-2% diss + vn py	druzy qtz sulfide (py) vns intermittent off white clay gouge wk-mod perv clay alt	<	<		
670														645 - 665 ~ 3% $CaCO_3$ vns	<	<		
675															<	<		
680															.001	<		
685															.001	<		
690															.002	<		
695															.006	<		
700																		

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FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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DRILL HOLE RL-167

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	% WASH RECOV.
		Xc tr							peppered tan-green tgrdy				1-2% diss +vn py	647-710 LITHIC LAPILLI TUFF - same	.008	.12		
705														description @ above w/ similar alteration w/ local drusy qtz sulfide veins	.005	.18		
710	Δ	XX												mod red orange to buff chalcedony veins	.006	.20		
715															.008	.24		
720															.001	.14		
725															.002	<		
730													≤ 1% diss + vn py		.001	<		
735															.001	<		
740									Red orange					740-750 FGT to poss LLT component w/ strong red orange silica filling matrix - decreasing mineralization	<	.10		
745		XX													<	<		
750		Xc												750-800 mixed lithic lapilli tuff & fine grained tuff weakly mod bl.	<	<		
755									Buff					increasing w/ depth & becoming poss more predom tuffaceous	<	<		
760									Buff + green				NIL to tr py	w/ depth weak calcite veins, mineralization decreases w/ depth	.001	<		
765														weak argillic clay alt	.001	.110		
770															.002	<		
775															<	<		
780															.001	<		
785									Buff white						.003	.110		
790															<	<		
795															.001	<		
800														T.D.				

NEVADA GSI, INC.

Job No.: LOAS8851

No.	Sample Id			Au opt	Ag opt
51	RL-167	115	120	-0.001	-0.100
52	RL-167	120	125	-0.001	-0.100
53	RL-167	125	130	-0.001	-0.100
54	RL-167	130	135	-0.001	-0.100
55	RL-167	135	140	-0.001	-0.100
56	RL-167	140	145	-0.001	-0.100
57	RL-167	145	150	-0.001	-0.100
58	RL-167	150	155	0.001	-0.100
59	RL-167	155	160	0.001	-0.100
60	RL-167	160	165	0.001	-0.100
61	RL-167	165	170	0.001	-0.100
62	S-24			0.076	0.190
63	RL-167	170	175	-0.001	-0.100
64	RL-167	175	180	0.008	0.280
65	RL-167	180	185	0.003	-0.100
66	RL-167	185	190	0.015	0.140
67	RL-167	190	195	0.014	0.210
68	RL-167	195	200	0.028	0.260
69	RL-167	200	205	0.012	0.210
70	RL-167	205	210	0.008	-0.100
71	RL-167	210	215	0.003	-0.100
72	RL-167	215	220	0.006	-0.100
73	RL-167	220	225	0.001	-0.100
74	RL-167	225	230	0.002	0.190
75	RL-167	230	235	0.005	0.210
76	RL-167	235	240	0.002	0.110
77	RL-167	240	245	0.001	-0.100
78	RL-167	245	250	0.001	-0.100
79	RL-167	250	255	-0.001	-0.100
80	RL-167	255	260	-0.001	-0.100
81	RL-167	260	265	-0.001	-0.100
82	S-25			0.035	-0.100
83	RL-167	265	270	-0.001	-0.100
84	RL-167	270	275	-0.001	-0.100
85	RL-167	275	280	-0.001	-0.100
86	RL-167	280	285	-0.001	-0.100
87	RL-167	285	290	-0.001	-0.100
88	RL-167	290	295	-0.001	-0.100
89	RL-167	295	300	-0.001	-0.100
90	RL-167	300	305	-0.001	-0.100
91	RL-167	305	310	0.001	0.140
92	RL-167	310	315	0.002	0.390
93	RL-167	315	320	0.001	0.380
94	RL-167	320	325	0.001	-0.100
95	RL-167	325	330	0.001	0.120
96	RL-167	330	335	0.001	-0.100
97	RL-167	335	340	-0.001	-0.100
98	RL-167	340	345	-0.001	0.240
99	RL-167	345	350	-0.001	-0.100
100	RL-167	350	355	-0.001	-0.100

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

NEVADA GSI, INC.

Job No.: LOAS8851

No.	Sample Id			Au opt	Ag opt
101	RL-167	355	360	-0.001	-0.100
102	S-26			0.033	-0.100
103	RL-167	360	365	0.001	-0.100
104	RL-167	365	370	-0.001	-0.100
105	RL-167	370	375	-0.001	-0.100
106	RL-167	375	380	-0.001	-0.100
107	RL-167	380	385	-0.001	-0.100
108	RL-167	385	390	-0.001	-0.100
109	RL-167	390	395	-0.001	-0.100
110	RL-167	395	400	-0.001	-0.100
111	RL-167	400	405	-0.001	-0.100
112	RL-167	405	410	-0.001	-0.100
113	RL-167	410	415	-0.001	-0.100
114	RL-167	415	420	-0.001	-0.100
115	RL-167	420	425	-0.001	-0.100
116	RL-167	425	430	-0.001	-0.100
117	RL-167	430	435	-0.001	-0.100
118	RL-167	435	440	0.002	-0.100
119	RL-167	440	445	0.001	-0.100
120	RL-167	445	450	-0.001	-0.100
121	RL-167	450	455	-0.001	-0.100
122	S-27			0.054	-0.100
123	RL-167	455	460	0.001	-0.100
124	RL-167	460	465	0.001	-0.100
125	RL-167	465	470	-0.001	-0.100
126	RL-167	470	475	0.003	0.110
127	RL-167	475	480	0.001	-0.100
128	RL-167	480	485	-0.001	-0.100
129	RL-167	485	490	0.001	-0.100
130	RL-167	490	495	-0.001	-0.100
131	RL-167	495	500	0.001	-0.100
132	RL-167	500	505	0.001	-0.100
133	RL-167	505	510	-0.001	-0.100
134	RL-167	510	515	-0.001	-0.100
135	RL-167	515	520	-0.001	-0.100
136	RL-167	520	525	-0.001	-0.100
137	RL-167	525	530	-0.001	-0.100
138	RL-167	530	535	-0.001	-0.100
139	RL-167	535	540	-0.001	-0.100
140	RL-167	540	545	-0.001	-0.100
141	RL-167	545	550	-0.001	-0.100
142	S-28			0.054	-0.100
143	RL-167	550	555	-0.001	-0.100
144	RL-167	555	560	-0.001	-0.100
145	RL-167	560	565	-0.001	-0.100
146	RL-167	565	570	-0.001	-0.100
147	RL-167	570	575	0.001	-0.100
148	RL-167	575	580	-0.001	-0.100
149	RL-167	580	585	-0.001	-0.100
150	RL-167	585	590	0.001	-0.100

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NEVADA GSI, INC.

Job No.: LOAS8851

No.	Sample Id			Au opt	Ag opt
151	RL-167	590	595	0.001	-0.100
152	RL-167	595	600	0.001	-0.100
153	RL-167	600	605	-0.001	-0.100
154	RL-167	605	610	-0.001	-0.100
155	RL-167	610	615	-0.001	-0.100
156	RL-167	615	620	-0.001	-0.100
157	RL-167	620	625	-0.001	-0.100
158	RL-167	625	630	0.002	-0.100
159	RL-167	630	635	0.001	-0.100
160	RL-167	635	640	0.002	0.110
161	RL-167	640	645	0.001	-0.100
162	S-29			0.098	-0.100
163	RL-167	645	650	-0.001	-0.100
164	RL-167	650	655	0.001	-0.100
165	RL-167	655	660	0.004	-0.100
166	RL-167	660	665	0.002	-0.100
167	RL-167	665	670	-0.001	-0.100
168	RL-167	670	675	-0.001	-0.100
169	RL-167	675	680	-0.001	-0.100
170	RL-167	680	685	0.001	-0.100
171	RL-167	685	690	0.001	-0.100
172	RL-167	690	695	0.002	-0.100
173	RL-167	695	700	0.006	-0.100
174	RL-167	700	705	0.008	0.120
175	RL-167	705	710	0.005	0.180
176	RL-167	710	715	0.006	0.200
177	RL-167	715	720	0.008	0.240
178	RL-167	720	725	0.001	0.140
179	RL-167	725	730	0.002	-0.100
180	RL-167	730	735	0.001	-0.100
181	RL-167	735	740	0.001	-0.100
182	S-30			0.048	0.100
183	RL-167	740	745	-0.001	-0.100
184	RL-167	745	750	-0.001	-0.100
185	RL-167	750	755	-0.001	-0.100
186	RL-167	755	760	-0.001	-0.100
187	RL-167	760	765	0.001	-0.100
188	RL-167	765	770	0.001	0.110
189	RL-167	770	775	0.002	-0.100
190	RL-167	775	780	-0.001	-0.100
191	RL-167	780	785	0.001	-0.100
192	RL-167	785	790	0.003	0.110
193	RL-167	790	795	-0.001	-0.100
194	RL-167	795	800	0.001	-0.100

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