60001380

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-151
AUTHOR	K. Tullar; N. Brewer; J. Gaige
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; Eklund Drilling Lac Minerals (USA), Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 500' 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 RL-151
ROSEBUD

No. America

6000 1380 4010 ✓

60001380

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-151 TOTAL DEPTH 500' LOGGED BY KNT

Date started 10-22-90

Date completed 10-22-90

Initial bearing N30E

Initial inclination -60°

Elevation 5108.80

Collar coordinates:

N 2,203,856

E 477,479.6

Contractor: EKlund

Drill Type: MPD-1000 Track

Hole Size: Hammer 4 3/4"

Drilling Conditions: good

Footage: Wet / Dry Dry 0-165'

Wet (injected) ~~to~~ 165' to 500'

Comments: Static H_2O ± 190'

No major water producing

fracts; produced ± 10 gpm @ 260'

20 gpm @ 340'

14 gpm @ 370 + 400

15-20 gpm @ 500'

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? Badger

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

DRILL HOLE RL-151

Page 1 of 5

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-red-brown					0-10' Qcover; wht blc Tct? clasts + Si clips + wk hematite start 10/22 4:30 PM	<	<		
05									"						<			
10									Hgry + red brn					10-50 Hgry, Fine grain, fn grn altered set 18' casing	<			
15														phenocrysts, Tct?? Start 10/23 FGT + red-brn matrix 7:30 AM	.001			
20														wk-mod clay altered lithic lapilli tuff (No vials thru 105')	.001			
25														probably Badger	<			
30														mod hematite	.001			
35															<	.10		
40																		
45														sly red brown clay	.001	.10		
50														sly red brown clay	.002	<		
55									mauve to wht					50-146'?? mauve to wht blc, sly clay altered TB??	<	.26		
60									mauve					gop!	.001	.29		
65									"						<	.28		
70									wht-mauve						<	.26		
75									"						.001	<		
80									"						<	<		
85									"						.001	<		
90									mauve						.001	<		
95									"						<	<		
100									"						.001	<		

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 RL-151

Page 2 of 3

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	
									Tan-wht						<	<		
105									mauve.						<			
110									"					75% clay	.001			
115									wht-tan					115 could be TB/TCT? contact ????	<			
120									"						<			
125									"						<			
130									"						.001			
135									wht-gry					135-140 intense clay zone	.001	.13		
140									wht-flesh					140-300 wht-flesh, bk, granular clay decrease FGT, TCT?? overall	<	<		
145														wk argillize w/ wk-mod Si to massive ?? Silica	<	.14		
150													Tr	Tr pyrite	.001	.24		
155													1%	wk Si + clay + tr-1% UN py	.004	<		
160		Blc											1%+	Si + py + wht clay UNS ↑ Drill wet @ 165	.008	<		
165		Blc												~9:30 AM moist	.005	<		
170		XK													.001	<		
175		XK												wait for H_2O 9:45 Haul 11:15	.013	.18		
180		XK													.012	<		
185		XK												Circ prob's major clay	.004	<		
190									gry wht					75% clay goop - gry wht	.003	<		
195		Blc												bk, granular v/w/l possible CT!	.001	<		
200																		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

ΔΔbrecciated

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

DRILL HOLE RZ-157

Page 3 of 5

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.
	⌐ ⌐	Δ Δ ~ XX							wh'ish				<1% diss	Overall 200-300 wht, blc, wk arg? mod silicif (more bx'ted + silicif flooded ??) with wk <1%, med grn, diss pyrite cubic.	.005	.16		
205																		
210	~ ⌐	~ Δ Δ XX												probably represents fault zone - ie, dissimilar size clasts 11:35 Am	.030	.27		
215	⌐ ⌐	~ Δ Δ XX													.002	.16		
220	⌐ ⌐	⌐ Δ XX													.001	<		
225	⌐ ⌐	~ Δ Δ XX													<	<		
230	⌐ ⌐	~ Δ Δ XX													.005	<		
235	⌐ ⌐	~ Δ Δ XX												Inner pink silc Uring - silic + py	.002	.31		
240	⌐ ⌐	~ Δ Δ XX													.002	<		
245	⌐ ⌐	⌐ Δ Δ XX													.031	.17		
250	⌐ ⌐	⌐ Δ XX												XX	.048	<		
255	⌐ ⌐	⌐ Δ XX												2-3% carbon	.004	<		
260	⌐ ⌐	⌐ Δ XX													.004	<		
265	⌐ ⌐	⌐ Δ XX												Note: 1/4 split bucket fills in ~1.5 min = 10 gpm	.008	<		
270	⌐ ⌐	⌐ Δ XX													.003	<		
275	⌐ ⌐	⌐ Δ XX							wht + wk lt grn cast					270-300 Δ to lite grn bl lite grn cast	.004	<		
280	⌐ ⌐	⌐ Δ XX							"					developed - decreasing alteration but minor shift	.011	.27		
285	⌐ ⌐	⌐ Δ XX							"						.008	.21		
290	⌐ ⌐	⌐ Δ XX							"						.015	.27		
295	⌐ ⌐	⌐ Δ XX							"						.001	.29		
300	⌐ ⌐	Δ XX							" + blue ox					300' @ 1 pm	.002	.30		

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-151

Page 4 of 5

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.
		Blk							Tan to mauve				<1%	300-315 Tan to mauve, decrease in alt, to blk w/ lt gry clay inclusions?? fGT; Tct??	.001	<		
305																		
		Blk							"						.001	.16		
310																		
		Blk							"						<	<		
315		V. wk Blk							mauve + tan					315-500' Decrease in alt move to lt gry wash				
320														Overall, mauve to lt purple dominant color; + tan, blk				
325														fGT; Tct?? V. wk Blk V. minor, wk, fg dss py <1%				
330																		
335																		
340														@340' 20gpm H_2O	.001			
345															<			
350															.001			
355															<	.21		
360															<	.14		
365															<	<		
370														@370' 14gpm H_2O	.002	<		
375															.001	.22		
380															<	<		
385																		
390																		
395																		
400														@400' 14gpm H_2O 2:45PM				

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-15

Page 5 of 5

LOGGED BY _____

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
		v.wk Blc							mauve + tan						<	<		
405															<			
410															<			
415															.001			
420															<			
425															<			
430															<			
435															.001			
440															.001			
445		Blc							flesh-pink				<1% diss	445-460 flesh-pink, mod blc, FGT, Tet??	<			
450		Blc							"				py		<			
455		Blc x							"				"	v.wk silicified	.002			
460		wk Blc							flesh + mauve					460-500 v.wk Blc, mauve to red-brown, "fresher" Tet?? w/ wk, min. Blc	.001			
465		v.wk Blc							mauve to red-brown						<			
470																.12		
475																<		
480																		
485																		
490																		
495																		
500														± 15-20 gpm H_2O				
														TD=500' @ 4:50				

151
C

NOV 9 1990

NEVADA GSI, INC.

November 7, 1990

Mr. Nate Brewer
Lac Minerals
1395 Greg Street #107
Sparks, NV 89431

Dear Mr. Brewer:

The enclosed report, LOA8721A, reflects the correct data for sample P-67. The erroneous data in the original report, issued 11/1/90, was due to a data processing error. Please be assured that GSI is continually evaluating its Quality Assurance program to help eliminate these errors.

I apologize for any inconvenience this may have caused.

If you have any questions do not hesitate to contact me at 702/359-6600.

Sincerely,

Jerry Gaige
Production Manager

encl.

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

NOV 9 1990 C

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Client: Mr. Nate Brewer

LAC Minerals USA, Inc.
1395 Greg St. #107
Sparks, NV 89431 tel:702/356-8058

Job #: LOA8721A
Samples: 219
Project: URBD
Product: FA2
P.O. #:

This report has been reviewed and approved by:

Jerry Gaige Production Manager

11-7-90
Date

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

NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: loa8721a

No.	Sample Id			Au opt	Ag opt
1	RL-150	575	580	0.0040	0.1400
2	P-62			0.0330	0.2000
3	RL-150	580	585	0.0050	0.5100
4	RL-150	585	590	0.0240	0.5000
5	RL-150	590	595	0.0180	-0.1000
6	RL-150	595	600	0.0110	-0.1000
7	RL-150	600	605	0.0060	0.2600
8	RL-150	605	610	0.0030	-0.1000
9	RL-150	610	615	0.0030	-0.1000
10	RL-150	615	620	0.0040	0.4600
11	RL-150	620	625	0.0040	0.1900
12	RL-150	625	630	0.0030	0.4400
13	RL-150	630	635	0.0050	-0.1000
14	RL-150	635	640	0.0020	0.1500
15	RL-150	640	645	0.0010	0.3900
16	RL-150	645	650	0.0010	0.1200
17	RL-150	650	655	0.0010	0.2100
18	RL-150	655	660	0.0010	-0.1000
19	RL-150	660	665	-0.0010	0.1600
20	RL-150	665	670	-0.0010	-0.1000
21	RL-150	670	675	-0.0010	-0.1000
22	P-63			0.0370	-0.1000
23	RL-150	675	680	0.0020	0.2900
24	RL-150	680	685	-0.0010	0.3700
25	RL-150	685	690	0.0010	0.2200
26	RL-150	690	695	0.0010	0.1100
27	RL-150	695	700	0.0010	-0.1000
28	RL-151	0	5	-0.0010	-0.1000
29	RL-151	5	10	-0.0010	-0.1000
30	RL-151	10	15	-0.0010	-0.1000
31	RL-151	15	20	0.0010	-0.1000
32	RL-151	20	25	0.0010	-0.1000
33	RL-151	25	30	-0.0010	-0.1000
34	RL-151	30	35	0.0010	-0.1000
35	RL-151	35	40	-0.0010	0.1000
36	RL-151	40	45	0.0010	0.1000
37	RL-151	45	50	0.0020	-0.1000
38	RL-151	50	55	-0.0010	0.2600
39	RL-151	55	60	0.0010	0.2900
40	RL-151	60	65	-0.0010	0.2800
41	RL-151	65	70	-0.0010	0.2600
42	~~P-64~~			~~0.0400~~	~~-0.1000~~
43	RL-151	70	75	0.0010	-0.1000
44	RL-151	75	80	-0.0010	-0.1000
45	RL-151	80	85	0.0010	-0.1000
46	RL-151	85	90	0.0010	-0.1000
47	RL-151	90	95	-0.0010	-0.1000
48	RL-151	95	100	0.0010	-0.1000
49	RL-151	100	105	0.0010	-0.1000
50	RL-151	105	110	-0.0010	-0.1000

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: loa8721a

No.	Sample Id			Au opt	Ag opt
51	RL-151	110	115	-0.0010	-0.1000
52	RL-151	115	120	0.0010	-0.1000
53	RL-151	120	125	-0.0010	-0.1000
54	RL-151	125	130	-0.0010	-0.1000
55	RL-151	130	135	-0.0010	-0.1000
56	RL-151	135	140	0.0010	0.1300
57	RL-151	140	145	-0.0010	-0.1000
58	RL-151	145	150	-0.0010	0.1400
59	RL-151	150	155	0.0010	0.2400
60	RL-151	155	160	0.0040	-0.1000
61	RL-151	160	165	0.0080	-0.1000
62	P-65			0.0350	0.2100
63	RL-151	165	170	0.0050	-0.1000
64	RL-151	170	175	0.0010	-0.1000
65	RL-151	175	180	0.0130	0.1800
66	RL-151	180	185	0.0120	-0.1000
67	RL-151	185	190	0.0040	-0.1000
68	RL-151	190	195	0.0030	-0.1000
69	RL-151	195	200	0.0010	-0.1000
70	RL-151	200	205	0.0050	0.1600
71	RL-151	205	210	0.0300	0.2700
72	RL-151	210	215	0.0020	0.1600
73	RL-151	215	220	0.0010	-0.1000
74	RL-151	220	225	-0.0010	-0.1000
75	RL-151	225	230	0.0050	-0.1000
76	RL-151	230	235	0.0020	0.3100
77	RL-151	235	240	0.0020	-0.1000
78	RL-151	240	245	0.0310	0.1700
79	RL-151	245	250	0.0480	-0.1000
80	RL-151	250	255	0.0040	-0.1000
81	RL-151	255	260	0.0040	-0.1000
82	P-66			0.0400	-0.1000
83	RL-151	260	265	0.0080	-0.1000
84	RL-151	265	270	0.0030	-0.1000
85	RL-151	270	275	0.0040	-0.1000
86	RL-151	275	280	0.0110	0.2700
87	RL-151	280	285	0.0080	0.2100
88	RL-151	285	290	0.0150	0.2700
89	RL-151	290	295	0.0010	0.2900
90	RL-151	295	300	0.0020	0.3000
91	RL-151	300	305	0.0010	-0.1000
92	RL-151	305	310	0.0010	0.1600
93	RL-151	310	315	-0.0010	-0.1000
94	RL-151	315	320	-0.0010	-0.1000
95	RL-151	320	325	-0.0010	-0.1000
96	RL-151	325	330	-0.0010	-0.1000
97	RL-151	330	335	-0.0010	-0.1000
98	RL-151	335	340	0.0010	-0.1000
99	RL-151	340	345	-0.0010	-0.1000
100	RL-151	345	350	0.0010	-0.1000

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NEVADA GSI, INC.

GEOCHEMICAL ANALYSIS REPORT

Job No.: loa8721a

No.	Sample Id			Au opt	Ag opt
101	RL-151	350	355	-0.0010	0.2100
~~102~~	~~P-67~~			~~0.0490~~	~~-0.1000~~
103	RL-151	355	360	-0.0010	0.1400
104	RL-151	360	365	-0.0010	-0.1000
105	RL-151	365	370	0.0020	-0.1000
106	RL-151	370	375	0.0010	0.2200
107	RL-151	375	380	-0.0010	-0.1000
108	RL-151	380	385	-0.0010	-0.1000
109	RL-151	385	390	-0.0010	-0.1000
110	RL-151	390	395	-0.0010	-0.1000
111	RL-151	395	400	-0.0010	-0.1000
112	RL-151	400	405	-0.0010	-0.1000
113	RL-151	405	410	-0.0010	-0.1000
114	RL-151	410	415	-0.0010	-0.1000
115	RL-151	415	420	0.0010	-0.1000
116	RL-151	420	425	-0.0010	-0.1000
117	RL-151	425	430	-0.0010	-0.1000
118	RL-151	430	435	-0.0010	-0.1000
119	RL-151	435	440	0.0010	-0.1000
120	RL-151	440	445	0.0010	-0.1000
121	RL-151	445	450	-0.0010	-0.1000
~~122~~	~~P-68~~			~~-0.0010~~	~~-0.1000~~
123	RL-151	450	455	-0.0010	-0.1000
124	RL-151	455	460	0.0020	-0.1000
125	RL-151	460	465	0.0010	-0.1000
126	RL-151	465	470	-0.0010	-0.1000
127	RL-151	470	475	-0.0010	0.1200
128	RL-151	475	480	-0.0010	-0.1000
129	RL-151	480	485	-0.0010	-0.1000
130	RL-151	485	490	-0.0010	-0.1000
131	RL-151	490	495	-0.0010	-0.1000
132	RL-151	495	500	-0.0010	-0.1000
133	RL-152	0	5	-0.0010	-0.1000
134	RL-152	5	10	-0.0010	-0.1000
135	RL-152	10	15	0.0010	-0.1000
136	RL-152	15	20	-0.0010	-0.1000
137	RL-152	20	25	-0.0010	-0.1000
138	RL-152	25	30	-0.0010	-0.1000
139	RL-152	30	35	-0.0010	-0.1000
140	RL-152	35	40	-0.0010	-0.1000
141	RL-152	40	45	-0.0010	-0.1000
~~142~~	~~P-69~~			~~0.0320~~	~~0.2400~~
143	RL-152	45	50	-0.0010	-0.1000
144	RL-152	50	55	-0.0010	-0.1000
145	RL-152	55	60	-0.0010	-0.1000
146	RL-152	60	65	-0.0010	-0.1000
147	RL-152	65	70	-0.0010	-0.1000
148	RL-152	70	75	-0.0010	-0.1000
149	RL-152	75	80	-0.0010	-0.1000
150	RL-152	80	85	-0.0010	0.1400

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Degerstrom

RL-151 N30E -60°

Alt'd

0-10 Cover

10-50 Purple brown & grey tuff & clay
- Badger, 80

50-140 Clay goo, purple to lt grey to 115, med grey 115-140 (contact?)

140-175 lt-med grey granular Ø fgt, wk arg, wk to locally mod selic.

structure 175-190 Str silicified fgt, pink-grey color, abt grey clay

190-225 W-M arg & silic Ø fgt, white & lt grey (Choc)

structure 225-265 Str silicified lt-med grey fgt pink silica vnlts, some big chips

265-310 Pale green, slightly less alt'd W-M arg & silic fgt

310-500 Purple-grey to Purple-brown fgt (Choc) generally fresh, locally wk bleach at 385-410, 450-460. Chips finely ground

0-300 all wk anom; 155-170 ~ .006, 175-185 ~ .01, 205-210 ~ .03, 240-250 ~ .038, 250-290 ~ .005