60001278

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-43
AUTHOR	K. Kenner; N. Gonzalez; M. Leitch
DATE OF DOC(S)	1989
MULTI_DIST Y / N? Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; South Ridge Lac Minerals (USA) Inc; Gustin Corp. [redacted]
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 310' handwritten notes; geochemistry 11p.

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 3/19/08
Initials Date

DB: mdh
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

DRILL LOGS RL-43
Rosebud South Ridge

60001278 4010

66001278

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-43 TOTAL DEPTH 310' LOGGED BY KLK

Date started NOV. 2, 1989 11:50 Am

Date completed NOV. 2, 1989 4:45 pm

Initial bearing N 76° E

Initial inclination -60°

Elevation 5514.6

Collar coordinates:

N ~~[illegible]~~ 2,219,345

E 480405

Contractor: GUSTIN CORP.

Drill Type: RVC-T660H SCHRAMM

Hole Size: hammer 5 1/2"

Drilling Conditions: good

Footage: Wet / Dry

0-300 Dry

Comments: no major prob.

fairly hard in SGT

~5 min/5'

had 20' relatively unalt SGT

DOWN HOLE SURVEY INFORMATION

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

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-43 PAGE 1 OF 6

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC (W M S)	ALTERATION: SILICIFICATION (W M S)	ALTERATION: PROPYLLITIC (W M S)	COLOR FINES	MINERALIZATION: LIMONITE (W M S)	MINERALIZATION: HEMATITE (W M S)	MINERALIZATION: JAROSITE (W M S)	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
0	GOOD	0-95 "BUD BRECCIA" Pyroclastic, prev. mod clay alt weakly bleached (weak) intermittent smectite alt pervasively oxidized w/ wk FeOx veins ±MgO wk local montmorillonite alt local quartz clay alt, wk local calcedony vns	V V V V					ORANG BUFF				tR FeOx replace py		<.001		.003				
5	"		V V V V	Xc				"				"		<		.002				
10	"	wk calcedony vns	V V V V	Xc				"				"		<		.003				
15	"		V V V V					"				"		<		.004				
20	"		V V V V					"				"		<		.006				
25	"	wk fine black stkwk	V V V V					"				"		.001		.011				
30	"		V V V V	Xc				"				"		<.001		.006				
35	"		V V V V					"				"		<		.005				
40	"		V V V V	Xc				"				"		.006		.009				
45	"	wk ↑ bleaching	V V V V	Xc				"				"		.003		.009				
50																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-43 PAGE 2 OF 6

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ARGILLIC W M S	SILICIFICATION W M S	PROPYLLITIC W M S	COLOR FINES	LIMONITE W M S	HEMATITE W M S	JAROSITE W M S	% SULFIDES	OTHER COMMENTS	Au	Au ✓	Ag	As	Hg	Sb	Se
50-	GOOD	50-95 "Bud" mod to mod. str. clay alt pyroclastic perv. weakly mod limon w/ FeOx clay (lim-bim) w/ assoc in veins w/ MgO weak smectite + nontronite alt weak perv. bleaching, wh local	✓ ✓ ✓ ✓ ✓	Xc				LV ORG buff				tr FeOx repla py		<.001		.004				
55-	"	calcedony vns ± fine diss py tr hematite wh ↑ wk org tan clay	✓ ✓ ✓ ✓ ✓	Xc				"				"		<		.003				
60-	"		✓ ✓ ✓ ✓ ✓	Xc				"				"		<		.003				
65-	"		✓ ✓ ✓ ✓ ✓					"				"		<		.004				
70-	"	70-85 wh ↑ weakly limon clay	✓ ✓ ✓ ✓ ✓	Xc				"				"		<		.005				
75-	"		✓ ✓ ✓	Xc				"				"		<		.01				
80-	"		✓ ✓ ✓	Xc				"				"		.001		.022				
85-	"	85-95 wh fine grtz stockwork, wh/mod local silicification + FeOx vns ± MgO	✓ ✓ ✓ ✓	Xk Xc				"				"		.005		.031				
90-	"	RE-OX + wk tuffaceous component	✓ ✓ ✓ ✓	Xk Xc				"				"		<.001		.004				
95-	"	DOZER 95-300 Lt green/gray fine grained welded tuff, weak limonite, v. weakly bleached						Lt green buff				≥1% fine diss py		<		.013				
100-																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-43 PAGE 3 OF 6

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
		95-300 GRN-PURP DOZER																		
100	GOOD	100-150 Relatively unalt to weakly alt Dozer fine grained welded tuff purple to lt sage green very weakly bleached intermittently wh local chl veins						Lr purple gray buff				tr to >1% fine disp py		<.001		.004				
105	"	wh fine qtz stkwork vns		XK				"				"		<		.005				
110	"							"				"		<		.004				
115	"	wh ↑ argillic alt						"				"		<		.005				
120	"							"				"		<		.006				
125	"							"				"		<		.005				
130	"							"				"		<		.004				
135	"							"				"		<		.004				
140	"							"				"		<		.005				
145	"							"				"		<		.005				
150																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-43 PAGE 4 OF 6

	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
150	GOOD	95-300 GRN-PURP DOZER 150-200 very weakly alt dolr/fine grained tuff lthcs purple to green strongly welded with local fine o'lr stockwork w/h intermittent bleaching w/h chevrons, bleached w/ dk fine dissem - hematite?		XK				very lt purple gray				>1% fine diss py		<.001		.004				
160	"			XK				"				"		<		.004				
165	"							"				"		<		.003				
170	"							"				"		<		004				
175	"							"				"		<		.003				
180	"							"				"		<		.004				
185	"							"				"		<		.003				
190	"							"				"		<		.003				
195	"	190-200 ↑ purple coloration						"				"		<		003				
200	"	ours of bleach grainy frags						"				"		<		.003				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-43 PAGE 5 OF 6

	RECOVERY	LITHOLOGIC DESCRIPTION 95-300	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	SILICIFICATION W M S	PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	HEMATITE W M S	JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au ✓	Ag	As	Hg	Sb	Se
200	GOOD	200-250 Dogmar Dozer purple; green w/ chlorite strongly mudded - fine grained tuff, trace fine qtz stockwork v. w/ intermittent bleaching bleached w/ fine diss hematite		Xk				very lt purple gray				>1% fine diss py		<.001		.002				
205	"							"				"		<		.002				
210	"			Xk				"				"		<		.002				
215	"			Xk				"				"		<		.002				
220	"							"				"		<		.002				
225	"							"				"		<		.003				
230	"							"				"		<		.003				
235	"			Xk				"				"		<		.002				
240	"							"				"		<		.003				
245	"							"				"		<		.001				
250																				

L MINERALS U.S.A. INC.

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-43 PAGE 6 OF 6

Depth	RECOVERY	LITHOLOGIC DESCRIPTION	GRAPHIC LOG	GRAPHIC ALTERATION	ALTERATION: ARGILLIC W M S	ALTERATION: SILICIFICATION W M S	ALTERATION: PROPYLLITIC W M S	COLOR FINES	MINERALIZATION: LIMONITE W M S	MINERALIZATION: HEMATITE W M S	MINERALIZATION: JAROSITE W M S	% SULFIDES	OTHER COMMENTS	ANALYSES: Au	Au V	Ag	As	Hg	Sb	Se
250	GOOD	250-300 same @ above purple; generally finer grained welded Dacite tuff						very lt purple gray				tr fine class py		<.001		.005				
255	"							"				"		<		.003				
260	"							"				"		<		.002				
265	"							"				"		<		.003				
270	"							"				"		<		.002				
275	"							"				"		<		.002				
280	"							"				"		<		.002				
285	"							"				"		<		.005				
290	"							"				"		<		.001				
295	"							"				"		<		.002				
310		T.D												<		.002				
														<		.002				

SUPERCEDES PREVIOUS REPORT

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

NOV 30 1989

:: Ms. Kristen Kenner
LAC Minerals
1395 Greg St. #107
Sparks, NV 89431 tel:702/356-8058

==========

Job Number: LOA-9S5940
PROJECT: URBD-79014
Digest: 15 gram
Total number of samples: 152

==========

his report has been reviewed and approved by:

Nancy G. Gonzalez for Date: 11/28/89
ary Leitch, Quality Assurance Manager

3805 Atherton Road • Rocklin, California 95677 • 916/624-6000 1/800/827-4GSI FAX: 916/624-8986
1498 Kleppe Lane • Sparks, Nevada 89431 • 702/359-6600 FAX: 702/359-6605

GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

B #: LOA-9S5940

MPLE ID	#	Ag o/t	As ppm	Au o/t	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Se ppm	Te ppm
-43 0 5	91	.003	3.63	<.001	7.12	<.098	1.15	38.8	1.03	<.491	83.4	<.245	.221	3.30	<.982	<.491
-43 5 10	92	.002	2.08	<.001	7.92	<.099	1.44	36.8	.632	<.495	72.8	<.248	.185	2.57	<.991	<.495
-43 10 15	93	.003	5.87	<.001	8.95	<.099	1.15	43.9	.552	<.496	76.1	<.248	.200	2.80	<.993	<.496
-43 15 20	94	.004	9.30	<.001	5.30	<.099	1.19	30.1	.817	<.495	69.6	<.247	.244	2.67	<.989	<.495
-43 20 25	95	.006	6.47	<.001	4.54	<.098	.979	21.6	1.02	<.49	71.4	<.245	.143	2.60	<.98	<.49
-43 25 30	96	.011	6.17	.001	8.64	<.099	1.42	42.6	1.16	<.494	81.9	<.247	.304	2.45	<.988	<.494
-43 30 35	97	.006	5.02	<.001	4.60	<.099	1.38	23.4	1.02	<.494	74.1	<.247	.237	3.04	<.989	<.494
-43 35 40	98	.005	3.61	<.001	5.11	<.099	1.04	21.2	1.22	<.494	83.8	<.247	.176	2.64	<.988	<.494
-43 40 45	99	.009	5.19	.006	4.63	<.098	1.23	19.5	1.42	<.489	66.0	<.244	.196	2.15	<.978	<.489
-43 45 50	100	.009	5.91	.003	5.93	<.099	1.48	31.0	4.45	<.493	119.	<.246	.261	2.70	<.986	<.493
-43 50 55	101	.004	2.47	<.001	8.39	<.1	1.12	38.3	1.45	<.5	74.8	<.25	.237	1.85	<1.	<.5
-43 55 60	102	.003	3.94	<.001	5.40	<.097	1.04	22.6	1.09	<.486	66.2	<.243	.208	1.83	<.972	<.486
-43 60 65	103	.003	6.09	<.001	6.36	<.1	1.45	25.6	1.25	<.499	79.2	<.249	.149	2.39	<.997	<.499
-43 65 70	104	.004	3.99	<.001	4.15	<.098	1.23	23.5	.996	<.492	73.7	<.246	.210	2.40	<.984	<.492
-43 70 75	105	.005	22.4	<.001	9.48	.141	3.66	14.8	1.93	<.486	73.5	<.243	.361	1.68	1.47	<.486
-43 75 80	106	.01	15.3	<.001	5.44	<.099	1.92	21.6	3.47	<.496	73.8	.257	.274	2.47	<.993	<.496
-43 80 85	107	.022	18.9	.001	5.90	<.098	2.53	21.8	4.99	<.491	98.1	.247	.434	2.40	<.981	<.491
-43 85 90	108	.031	22.6	.005	4.12	<.097	3.29	24.6	6.28	<.485	89.0	<.242	.358	1.86	1.54	<.485
-43 90 95	109	.004	1.94	<.001	7.25	<.1	3.62	38.6	2.03	<.499	73.7	<.25	.129	2.75	<.998	<.499
-43 95 100	110	.013	11.7	<.001	8.06	<.1	3.60	43.3	2.86	<.498	89.4	<.249	.217	2.39	<.995	<.498
-43 100 105	111	.004	1.55	<.001	7.12	<.099	5.44	31.6	.755	<.494	71.8	<.247	.132	2.28	<.989	<.494
-43 105 110	112	.005	<.992	<.001	4.69	<.099	4.75	27.8	1.07	<.496	67.2	<.248	.115	2.36	<.992	<.496
-43 110 115	113	.004	1.17	<.001	9.53	<.099	4.76	49.6	1.01	<.495	73.4	<.248	.117	2.03	<.991	<.495
-43 115 120	114	.005	1.06	<.001	4.64	<.097	4.80	28.2	.677	<.485	52.5	<.243	<.097	2.09	<.971	<.485
-43 120 125	115	.006	1.36	<.001	5.76	<.098	5.27	28.7	.759	<.489	69.7	<.244	.149	2.09	<.977	<.489
-43 125 130	116	.005	1.10	<.001	5.58	<.097	4.23	29.2	.706	<.487	58.5	<.244	.216	1.68	<.975	<.487
-43 130 135	117	.004	1.20	<.001	10.4	<.099	4.28	51.2	.628	<.497	70.8	<.249	.193	1.98	<.995	<.497
-43 135 140	118	.004	.991	<.001	6.61	<.099	4.99	30.3	.598	<.494	66.8	<.247	.159	1.94	<.989	<.494
-43 140 145	119	.005	1.05	<.001	6.77	<.099	6.08	28.2	.681	<.497	68.7	<.248	.117	2.33	<.993	<.497
-43 145 150	120	.005	1.10	<.001	9.56	<.098	6.59	32.4	1.14	<.491	80.3	<.245	.103	2.60	<.982	<.491

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GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

B #: LOA-9S5940

MPLE ID	#	Ag o/t	As ppm	Au o/t	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Se ppm	Te ppm
-43 150 155	121	.004	<.999	<.001	7.31	<.1	5.38	31.5	.658	<.499	67.7	<.25	.102	2.29	<.999	<.499
-43 155 160	122	.004	<.982	<.001	5.73	<.098	4.95	25.1	.652	<.491	62.4	<.245	<.098	2.06	<.982	<.491
-43 160 165	123	.003	<.996	<.001	4.48	<.1	4.81	21.8	.632	<.498	59.2	<.249	.107	2.12	<.996	<.498
-43 165 170	124	.004	<.989	<.001	6.13	<.099	4.91	24.3	.572	<.494	62.5	<.247	.117	2.02	<.989	<.494
-43 170 175	125	.003	<.986	<.001	8.09	<.099	5.67	33.7	.562	<.493	68.2	<.246	<.099	1.71	<.986	<.493
-43 175 180	126	.004	<.991	<.001	7.45	<.099	5.43	23.9	.588	<.496	71.6	<.248	.120	2.06	<.991	<.496
-43 180 185	127	.003	<.976	<.001	7.17	<.098	3.41	20.6	.550	<.488	103.	<.244	.112	1.27	<.976	<.488
-43 185 190	128	.003	<.986	<.001	9.18	<.099	3.25	20.5	.643	<.493	43.0	<.246	<.099	1.63	<.986	<.493
-43 190 195	129	.003	<.999	<.001	9.94	<.1	3.56	28.6	.726	<.499	53.1	<.25	<.1	1.90	<.999	<.499
-43 195 200	130	.003	<.986	<.001	8.53	<.099	3.51	19.4	.614	<.493	56.1	<.247	.116	1.50	<.986	<.493
-43 200 205	131	.002	<.991	<.001	5.66	<.099	3.06	16.5	.614	<.495	39.7	<.248	.126	1.20	<.991	<.495
-43 205 210	132	.002	1.65	<.001	6.53	<.1	2.36	16.5	.730	<.499	38.5	<.25	.108	1.44	<.999	<.499
-43 210 215	133	.002	2.59	<.001	9.14	<.097	2.10	29.2	.841	<.485	45.6	<.243	.127	1.70	<.971	<.485
-43 215 220	134	.002	1.30	<.001	6.90	<.1	2.23	15.8	.627	<.5	39.0	<.25	<.1	1.61	<1.	<.5
-43 220 225	135	.002	1.06	<.001	7.72	<.099	2.77	18.5	.620	<.496	45.2	<.248	<.099	1.82	<.992	<.496
-43 225 230	136	.003	1.02	<.001	7.55	<.099	2.80	17.2	1.38	<.494	52.4	<.247	<.099	1.97	<.987	<.494
-43 230 235	137	.003	2.51	<.001	8.84	<.098	4.30	29.8	1.27	<.49	48.3	<.245	<.098	1.85	<.98	<.49
-43 235 240	138	.002	<.978	<.001	7.53	<.098	3.24	19.4	.628	<.489	45.0	<.245	<.098	1.83	<.978	<.489
-43 240 245	139	.003	<.976	<.001	7.68	<.098	3.38	18.4	.573	<.488	46.0	<.244	<.098	1.88	<.976	<.488
-43 245 250	140	.001	<.989	<.001	10.3	<.099	3.55	19.3	.738	<.495	45.5	<.247	<.099	2.05	<.989	<.495
-43 250 255	141	.005	6.63	<.001	9.03	<.098	4.79	23.3	1.69	<.49	44.5	<.245	<.098	2.33	<.98	<.49
-43 255 260	142	.003	<.98	<.001	10.1	<.098	4.58	22.6	.664	<.49	54.0	<.245	.102	2.56	<.98	<.49
-43 260 265	143	.002	<.999	<.001	8.46	<.1	5.47	17.1	.733	<.5	51.8	<.25	<.1	2.86	<.999	<.5
-43 265 270	144	.003	<.995	<.001	13.3	<.1	4.66	17.1	.719	<.498	53.4	<.249	.116	2.31	<.995	<.498
-43 270 275	145	.002	<.974	<.001	8.42	<.097	4.79	21.0	.632	<.487	49.7	<.244	<.097	2.17	<.974	<.487
-43 275 280	146	.002	<.987	<.001	8.43	<.099	4.03	15.9	.698	<.493	49.4	<.247	<.099	2.32	<.987	<.493
-43 280 285	147	.002	<.994	<.001	6.06	<.099	3.48	17.7	.661	<.497	54.8	<.249	.110	2.94	<.994	<.497
-43 285 290	148	.005	<.998	<.001	10.4	<.1	4.83	16.8	.778	<.499	55.5	<.25	.101	2.29	<.998	<.499
-43 290 295	149	.001	<.994	<.001	9.70	<.099	4.57	25.4	.581	<.497	49.4	<.249	<.099	2.33	<.994	<.497
-43 295 300	150	.002	<.994	<.001	9.68	<.099	4.34	19.3	.733	<.497	48.6	<.249	<.099	2.54	<.994	<.497

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GSI GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: LOA-9S5940

SAMPLE ID	#	Ag o/t	As ppm	Au o/t	Cu ppm	Hg ppm	Mo ppm	Pb ppm	Sb ppm	Tl ppm	Zn ppm	Bi ppm	Cd ppm	Ga ppm	Se ppm	Te ppm
RL-43 300 305	151	.002	<.995	<.001	10.2	<.1	3.90	18.1	.708	<.498	46.4	<.249	<.1	2.31	<.995	<.498
RL-43 305 310	152	.002	<.984	<.001	9.85	<.098	4.06	18.2	.635	<.492	51.0	<.246	<.098	2.29	<.984	<.492

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