60001280

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-45
AUTHOR	K. Kenner; 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.
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 490'; handwritten notes; geochemistry 17 p.

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: [signature]
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

DRILL LOGS
Rosebud

RL-45
South Ridge

6060 1280 4010

6600 1280

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-45 TOTAL DEPTH 490' LOGGED BY KLK

Date started NOV. 3, 1989 moved onto PAD

Date completed NOV. 4, 1989 4:45pm

Initial bearing S46W

Initial inclination -61.2°

Elevation 5363.4

Collar coordinates:

N 2201699

E 480274.5

Contractor: GUSTIN CORP.

Drill Type: RVC - Schramm T660H

Hole Size: Hammer 5½"

Drilling Conditions: good

Footage: Wet / Dry DRY 0-225'

WET: 225-490'

Comments: dark black/brn H_2O encountered 225-245' → strong organics?) 245 FeOx H_2O hit fault thin bach into SLT -

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLINATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-45 PAGE 1 OF

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	Fine grained tuff, pervasively bleached weak perv. argillic clay alt, weak perv. to intermit perv to vein limonite ± mgo weak limonclay, weak v fine hairline qtz stockwork, weak local calcedony veins ↑ bleaching from RL-42-44 local white clay alt, possible weak perv. silicification		Xk				Lr org buff				>1% diss py +1% relict dissem	FeOx repla py	<.001		.013				
5	"			Xk				"				≥1% FeOx replac relict diss py		<		.007				
10	"			Xk				"				"		.002		.007				
15	"			Xc Xk				"				"		<.001		.005				
20	"	wh local grainy texture		Xk				"				"		<		.004				
25	"	local grainy texture		Xk				"				"		<		.003				
30	"			Xk				"				"		.001		.003 <.10				
35	"			Xk				"				"		<		.003				
40	"			Xk				"				"		<		.01				
45	"	more grainy texture		Xk				"				"		<		.008				
50																				

L MINERALS U.S.A. INC.

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-45 PAGE 2 OF

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
50	GOOD	Fine grained tuff, well perv. bleached weak perv. argillic clay alt weak fine hairline qtz stock work, weak local calcidony veinlets wh to weak mod limonite w/ lemon/ mgo veinlets locally, local wh white logs	(Δ Δ)	Xk				Lt org buff				>1% relict FeOx replac py		<.001		.003				
55	"	50-75 poss wkly silicified; 50-65 mod strong lemon hem mgo veins - vuggy w/ local microbreccia vns + ↑ fine stkwk qtz poss FAULT? zone	(Δ Δ)	Xk				"				"		.045		.03				
60	"		(Δ Δ)	Xk				"				"		.011		.009				
65	"	65-75 ↑ bleaching ↓ un + perv. FeOx		Xk				"				tr diss py		<.001		.005				
70	"	wh grainy text		Xk Xc				"				"		.001		.004				
75	"	OX/RE Boundary; 75-100 ↓ perv bleaching wk hint intermittent smectite or poss nontronite alt (clay) ↓ perv. limonite		Xk Xc				"				≥1% fine diss py		.001		.01				
80	"			Xk				Lt hint GRY BUFF				"		.008		.01				
85	"			Xk				"				1-2% fine diss py	Tr relict FeOx replac py	.008		.009				
90	"			Xk				"				" @ 1%	"	.003		.007				
95	"			Xk				"				"	"	<.001		.002				
100																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-45 PAGE 3 OF

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
100	GOOD	Dozer moderately to weakly bleached fine gr tuff w/ weak to mod interbeds of peru limonite mineraliz weak verification of smectite or che weak argilled clay alt local weak limonite / mgo veins weak intermittent fine qtz stockwork		Xk				fr hint org buff				≥1% relict diss FeOx replac py	>1% fresh diss py	<.001		.004				
105	"			Xk				"				"	"	<		.004				
110	"			Xk				"				"	"	<		.004				
115	"	w/ wh. silicification wk ↑ peru FeOx		Xk				"				"	"	<		.006				
120	"	120-135 wk ↑ bleaching w/ strong oxidized interbeds + tr white clay vns		Xk				"				"	" @ 1%	<		.013				
125	"			Xk				"				"	"	<		.004				
130	"			Xk				"				"	"	<		.005				
135	"	135-150 ↓ peru FeOx wk ↑ smectite alt		Xk				"				≥1% diss ± vn py		<		.003				
140	"			Xk				"				"		<		.004				
145	"			Xk				"				"		<		.003				
150																				

L MINERALS U.S.A. INC.

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-45 PAGE 4 OF

Depth	RECOVERY	LITHOLOGIC DESCRIPTION DOZER	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	Fine grained dozer tuff, weakly bleached weak verigation of smectite alt, weak fine grained hairline qtz stockwork, unoxidized wh white arg clay alt ↳ locally encap py wh calcite uns		Xk Ca				Lt hint green buff				1-2% vn + diss py		<.001		.003				
155	"			Xk Ca				"				"		<		.005				
160	"			Xk Ca				"				" @ 1%		<		.003				
165	"	wh contamination		Xk Ca				"				"		<		.006				
170	"	wh contam		Xk Ca				"				"		<		.004				
175	"	170-180: significant py-qtz ± CaCO3 uns		Xk Ca				"				1-2% vn* + diss py		<		.007				
180	"			Xk Ca				"				" @ 1%		<		.007				
185	"			Xk Ca				"				"	w/ bladed sulf.	<		.007				
190	"	190-200 wh limon along fractures		Xk Ca				"				"	"	<		.008				
195	"			Xk Ca				"				" @ 1-2%	"	.001		.009				
200																				

L MINERALS U.S.A. INC.

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-45 PAGE 5 OF

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
200	GOOD	205-220 fine grained tuff, weakly bleached, weak vericated smectite alt wh fine qtz stockwork, wk calcite veining, wh limonitic clays, wh che vns, wk calcite vns		Xk ca				Lt hint GRN Buf				≥1% fine diss py		<.001		.006				
205	"			Xk ca				"				"		<		.003				
210	"			Xk ca				"				"		<		.003				
215	"			Xk ca				"				"		<		.003				
220	POOR	220-235 same(?) above w/ wh bwn clay w/ tr blache shale(?) frags w/ ↓ pru bleaching WENT TO H2O		Xk ca				Lt Bwn				"		<		.01				
225	MOD.			Xk ca				"				"		<		.004				
230	MOD GOOD			Xk ca				"				"		<		.005				
235	GOOD	235-250 FAULT - oxidized w/ limonitic hemitite H2O, ~ 3-4% black shale frags w/ voids argillically bleached clay alt, wk silicification local		Xk ca				Black Bwn				"	plus +1% Feox replac py	<		.004				
240	TOO MUCH	MAIN FAULT ZONE 240-245		Xk ca				"				"	"	.014		.041				
245	TOO MUCH	↓ oxidation into footwall		Xk ca				"				"	"	<		.005				
250																				

LAC MINERALS U.S.A. INC.

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-45 PAGE 6 OF 10

Depth	RECOVERY	LITHOLOGIC DESCRIPTION DOZER	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
250	GOOD	Fine grained tuff weakly bleached w/ intermittent smectite alt. w/ chl veins, weak calcite veining weak fine hairline qtz stockwork stretch marks of chlorite 250-255 w/ remaining oxidized portion of above fault @ 245'		ca Xk				Lt chnt green buff				≥1% VN + diss + bladed PY		<.001		.004				
255	"	+wk grainy text		Xk ca				"				"		<		.004				
260	"	wh ↑ bleaching		Xk ca				"				"		<		.004				
265	"	tr contamination		Xk ca				"				"		<		.003				
270	"	" "		Xk ca				"				"		<		.007				
275	"			Xk ca				"				"		<		.005				
280	"			ca				"				"		<		.003				
285	"	wh ↑ bleaching w/ wk tan clays		Xk ca				"				"		<		.011				
290	"			ca				"				"		<		.006				
295	"			ca				"				"		<		.004				
300																				

LAC MINERALS U.S.A. INC.

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-45 PAGE 7 OF 10

Depth	RECOVERY	LITHOLOGIC DESCRIPTION DOZER	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
300	GOOD	Fine grained tuff w/ intermittent bleached beds w/ weak fine qtz stockwork locally encapsulating pyrite veinlets pervasively sage green, weak chl veinlets; alt phenos; weak calcite veining; local grainy texture		Xk ca				fr. hint green buff				≥1% diss ± vn py		<.001		.003				
305	"			Xk ca				"				"		<		.004				
310	"			Xk ca				"				"		<		.003				
315	"	315-340 ↑ intermittent grainy bleached interbedding		Xk ca				"				"		<		.005				
320	"			Xk ca				"				"		.002		.016				
325	"			Xk ca				"				"		<.001		.007				
330	"			Xk ca				"				"		<		.015				
335	"			Xk ca				"				"		<		.009				
340	"	340-350 ↑ green alt		Xk ca				"				"		<		.005				
345	"			Xk ca				"				"		<		.006				
350																				

LAC MINERALS U.S.A. INC.

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-45 PAGE 8 OF 10

Depth	RECOVERY	LITHOLOGIC DESCRIPTION DOZER	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
350	GOOD	Fine grained tuff w/ interbedding or bleaching, wk fine hairline qtz stockwork w/ local py encapsulation pervasively sage green wh chlorite veins ± alt phenos, weak calcite veining, local grainy texture		Xk Ca				Lt hint green buff				1% diss bladed py (?)		<.001		.007				
355	"	350-360 wh ↑ bleaching w/ assoc grainy texture		Xk Ca				"				" @ >1%		.007		.019				
360	"	360-375 more densely welded ↑ perv. green alt		Xk Ca				"				"		<.001		.002				
365	"			Ca Xk				"				"		<		.002				
370	"			Ca Xk				"				"		<		.002				
375	"	wh ↑ bleaching		Ca Xk				"				"		<		.003				
380	"			Ca Xk				"				" @ 1%		<		.002				
385	"			Ca Xk				"				" @ >1%		<		.002				
390	"			Ca Xk				"				"		<		.001				
395	"	↑ welding ↑ green alt		Ca Xk				"				"		<		.001				
400																				

LAC MINERALS U.S.A. INC.

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-45 PAGE 9 OF 10

Depth	RECOVERY	LITHOLOGIC DESCRIPTION DOZER	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
400	GOOD	Fine grained weakly bleached tuff w/ chl alt vesicles; local chl veinlets, weak calcite veining weak fine qtz stockwork pervasively v. lt sage green		Ca Xk				hint green buff				≥1% diss + bladed py		<.001		.002				
405	"			Ca Xk				"				"		<		.002				
410	"	410-430 more granular w/ ↑ perv. argillic alt + pyrite, qtz veins		Ca Xk				"				1-2% fine disst bladed py	(+- vns)	<		.002				
415	"			Ca Xk				"				"		<		.003				
420	"			Ca Xk				"				"		<		.009				
425	"	hint small clay zone		Ca Xk				"				"		<		.006				
430	"			Ca Xk				"				≥1% fine disst bladed py		<		.003				
435	"			Ca Xk				"						<		.002				
440	"	wh grainy interbeds		Ca Xk				"						<		.003				
445	"			Ca Xk				"						<		.003				
450																				

LAC MINERALS U.S.A. INC.

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RL-4 PAGE 10 OF 10

Depth	RECOVERY	LITHOLOGIC DESCRIPTION DOZER	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
450	GOOD	Fine grained tuff w/ local more granular interbeds, weakly pew, lt sage green weak local fine hairline qtz stockwork weak calcite veining chl veinlets; vesicle fill	(A)	Xk ca				Lt hint green buff				>1% fine diss py		<.001		.005				
455	"			Xk ca				"				"		<		.002				
460	"			Xk ca				"				"		<		.002				
465	"			Ca Xk				"				1% + diss + vn py		<		.005				
470	"			Ca Xk				"				>1% fine diss py		<		.002				
475	"	wk microbreccia vns w/ chl fill	(A)	Ca Xk				"				"		<		.002				
480	"			Ca Xk				"				"		<		<.001				
485	"			Xk ca				"				"		<		.004				
490		T.D.																		
5																				
0																				

GEOCHEMICAL SERVICES INC.

SUPERCEDES [illegible]IOUS REPORT

NOV 30 1989

GEOCHEMICAL ANALYSIS REPORT

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

==========

Job Number: LOA-9S5941
PROJECT: URBD-79014
Digest: 15 gram
Total number of samples: 183

==========

This report has been reviewed and approved by:

Mary Leitch, Quality Assurance Manager Date: 11/28/89

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

JOB #: LOA-9S5941

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-44 305 310	61	.003	8.28	<.001	7.67	<.098	1.39	16.0	1.29	<.49	73.6	<.245	.128	2.15	<.979	<.49
RL-44 310 315	62	.004	7.36	<.001	9.97	<.098	1.57	32.9	2.01	<.492	81.2	<.246	.169	1.78	1.07	<.492
RL-44 315 320	63	.004	16.3	<.001	7.40	<.098	1.95	16.8	2.08	<.49	82.5	<.245	.211	1.64	1.39	<.49
RL-44 320 325	64	.004	17.1	<.001	6.45	<.098	2.23	15.3	1.63	<.491	83.9	<.245	.138	1.54	1.14	<.491
RL-44 325 330	65	.007	18.3	<.001	7.17	<.099	2.84	14.2	1.90	<.496	89.6	<.248	.195	1.73	1.63	<.496
RL-44 330 335	66	.009	23.0	.001	7.08	<.098	3.29	23.9	2.04	<.488	88.3	<.244	.179	1.29	2.03	<.488
RL-44 335 340	67	.006	16.2	<.001	4.22	<.099	2.64	15.1	1.59	<.495	88.4	<.248	.178	1.29	1.08	<.495
RL-44 340 345	68	.005	18.5	<.001	7.10	<.098	1.89	12.8	1.76	<.49	79.4	<.245	.227	1.66	<.98	<.49
RL-44 345 350	69	.003	9.71	<.001	6.39	<.097	1.28	12.0	1.16	<.486	76.9	<.243	.159	1.45	<.972	<.486
RL-44 350 355	70	.003	4.27	<.001	8.32	<.099	1.94	21.9	1.02	<.493	80.6	<.247	.117	2.42	<.987	<.493
RL-44 355 360	71	.004	2.99	<.001	6.51	<.097	1.73	16.8	.870	<.486	87.2	<.243	.174	2.42	<.972	<.486
RL-44 360 365	72	.003	2.63	<.001	6.71	<.098	1.87	19.0	.828	<.489	87.8	<.244	.298	2.40	<.978	<.489
RL-44 365 370	73	.003	.998	<.001	9.68	<.097	2.76	23.1	.818	<.487	80.3	<.244	.226	2.29	<.975	<.487
RL-44 370 375	74	.002	<.976	<.001	10.3	<.098	1.69	37.9	.783	<.488	75.9	<.244	.187	2.13	<.976	<.488
RL-44 375 380	75	.003	1.20	<.001	5.92	<.099	1.98	21.0	.651	<.493	70.8	<.246	.145	2.42	<.986	<.493
RL-44 380 385	76	.005	3.91	<.001	7.46	<.098	2.30	17.6	1.35	<.49	87.0	<.245	.339	2.25	<.98	<.49
RL-44 385 390	77	.006	5.28	<.001	15.3	<.099	6.56	26.5	1.95	<.496	218.	1.60	1.19	2.70	<.993	<.496
RL-44 390 395	78	.004	6.12	<.001	9.22	.107	3.32	25.6	2.26	<.499	73.0	.581	.460	1.67	<.997	<.499
RL-44 395 400	79	.002	1.67	<.001	9.93	<.098	2.80	21.1	.696	<.492	84.8	<.246	.365	1.62	<.984	<.492
RL-44 400 405	80	.002	1.81	<.001	8.53	<.098	2.50	19.3	.710	<.492	71.5	<.246	.347	1.85	<.984	<.492
RL-44 405 410	81	.003	1.27	<.001	12.1	<.098	2.78	15.6	.418	<.49	68.4	<.245	.189	2.15	<.98	<.49
RL-44 410 415	82	.004	2.46	<.001	7.65	<.1	3.31	24.7	.357	<.498	79.5	<.249	.283	1.90	<.996	<.498
RL-44 415 420	83	.006	9.13	<.001	6.20	<.1	6.16	23.4	1.42	<.498	71.8	<.249	.395	1.36	1.16	<.498
RL-44 420 425	84	.003	7.15	<.001	7.13	<.099	1.83	16.0	.653	<.497	74.4	<.249	.204	1.68	<.994	<.497
RL-44 430 435	85	.008	15.7	<.001	17.6	<.098	4.59	35.6	2.14	<.488	130.	<.244	.563	3.91	2.01	<.488
RL-45 0 5	86	.013	62.6	<.001	9.05	<.099	2.19	42.3	6.44	<.496	31.1	<.248	.203	1.19	3.98	<.496
RL-45 5 10	87	.007	36.1	<.001	11.7	<.097	1.68	70.6	2.49	<.487	33.1	<.243	<.097	1.67	3.53	<.487
RL-45 10 15	88	.007	85.2	.002	13.5	<.097	4.03	71.6	2.32	<.485	43.5	<.242	<.097	.675	5.67	<.485
RL-45 15 20	89	.005	48.4	<.001	5.52	<.098	1.67	30.6	1.83	<.488	23.3	<.244	<.098	.646	3.06	<.488
RL-45 20 25	90	.004	30.6	<.001	3.81	<.098	1.33	26.4	2.27	<.49	21.3	<.245	<.098	.870	2.02	<.49

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GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

OB #: LOA-9S5941

AMPLE ID	#	Ag	As	Au	Cu	Hg	Mo	Pb	Sb	Tl	Zn	Bi	Cd	Ga	Se	Te
		o/t	ppm	o/t	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
L-45 25 30	91	.003	37.7	<.001	3.47	<.099	1.38	30.9	1.97	<.497	20.4	<.248	<.099	1.02	2.52	<.497
L-45 30 35	92	.003	36.5	<.001	5.66	<.097	1.34	33.9	2.25	<.487	33.5	<.244	<.097	1.12	2.40	<.487
L-45 35 40	93	.003	32.2	<.001	7.14	<.099	1.39	36.6	2.10	<.496	41.9	<.248	<.099	1.06	2.25	<.496
L-45 40 45	94	.01	8.11	<.001	5.45	<.099	1.52	29.9	.887	<.494	30.3	<.247	<.099	1.06	<.988	<.494
L-45 45 50	95	.008	7.27	<.001	5.99	<.098	1.55	28.8	.710	<.488	29.7	<.244	<.098	1.04	<.975	<.488
L-45 50 55	96	.003	38.5	<.001	5.75	<.098	1.77	33.9	2.25	<.488	33.5	<.244	<.098	1.42	2.00	<.488
L-45 55 60	97	.03	48.0	.045	9.86	<.098	3.81	14.4	1.60	<.491	82.5	<.246	<.098	.528	2.27	<.491
L-45 60 65	98	.009	57.4	.011	9.36	<.098	4.81	20.7	1.89	<.488	41.7	<.244	<.098	1.21	4.99	<.488
L-45 65 70	99	.005	13.5	<.001	6.41	<.097	4.86	22.0	1.19	<.485	13.2	.251	<.097	<.485	1.61	<.485
L-45 70 75	100	.004	25.4	.001	7.00	<.099	3.96	34.8	1.37	<.494	18.7	.396	<.099	<.494	2.42	<.494
L-45 75 80	101	.01	61.4	.001	6.51	<.099	2.36	31.1	1.82	<.497	32.6	<.249	.125	.793	4.74	<.497
L-45 80 85	102	.01	71.3	.008	5.98	<.098	3.67	16.9	1.65	<.492	53.0	<.246	.189	<.492	4.55	<.492
L-45 85 90	103	.009	61.6	.008	7.23	<.099	2.97	17.3	1.54	<.493	66.8	<.247	.144	.686	3.74	<.493
L-45 90 95	104	.007	24.3	.003	7.06	<.1	2.56	27.8	1.49	<.5	99.9	<.25	.108	1.44	2.01	<.5
L-45 95 100	105	.002	3.94	<.001	5.22	<.098	2.48	19.7	.465	<.491	202.	<.245	<.098	1.64	<.982	<.491
L-45 100 105	106	.004	4.16	<.001	5.54	<.098	2.40	22.6	.567	<.49	107.	<.245	<.098	2.21	<.98	<.49
L-45 105 110	107	.004	6.68	<.001	5.68	<.098	2.31	23.1	.805	<.488	110.	<.244	<.098	1.98	2.27	<.488
L-45 110 115	108	.004	4.58	<.001	8.70	<.097	3.16	44.9	.653	<.486	97.4	<.243	.111	2.17	<.972	<.486
L-45 115 120	109	.006	6.94	<.001	7.42	<.097	3.45	27.8	1.18	<.485	96.6	<.243	.112	2.41	1.72	<.485
L-45 120 125	110	.013	12.6	<.001	5.93	<.099	1.99	25.3	1.68	<.496	72.0	<.248	.123	1.01	2.86	<.496
L-45 125 130	111	.004	10.1	<.001	7.27	<.098	2.25	27.9	1.01	<.488	97.6	<.244	.143	2.24	1.53	<.488
L-45 130 135	112	.005	13.3	<.001	8.85	<.1	2.94	44.0	1.37	<.499	78.3	<.25	.113	2.19	2.09	<.499
L-45 135 140	113	.003	1.87	<.001	6.82	<.099	4.02	27.2	.535	<.493	82.5	<.247	.134	2.73	<.986	<.493
L-45 140 145	114	.004	1.98	<.001	7.29	<.098	5.82	28.1	.787	<.491	83.2	<.246	<.098	3.08	<.982	<.491
L-45 145 150	115	.003	1.19	<.001	6.73	<.099	4.03	24.1	.338	<.496	71.4	<.248	.153	2.83	<.992	<.496
L-45 150 155	116	.003	2.43	<.001	7.24	<.099	2.60	30.2	.364	<.494	95.2	<.247	.162	2.74	<.988	<.494
L-45 155 160	117	.005	4.68	<.001	7.29	<.098	3.57	24.9	.451	<.491	89.1	<.246	.136	2.43	<.982	<.491
L-45 160 165	118	.003	1.35	<.001	6.97	<.099	2.94	22.6	.271	<.494	74.5	<.247	.104	2.70	<.987	<.494
L-45 165 170	119	.006	7.46	<.001	7.65	<.099	2.71	23.4	.907	<.496	80.6	<.248	.104	2.38	<.991	<.496
L-45 170 175	120	.004	7.73	<.001	15.1	<.097	2.38	63.4	.750	<.485	85.5	<.243	.207	2.45	<.971	<.485

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GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: LOA-9S5941

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-45 175 180	121	.007	20.9	<.001	9.30	<.1	3.36	21.9	1.31	<.498	85.6	<.249	.276	2.49	1.55	<.498
RL-45 180 185	122	.007	47.3	<.001	6.67	<.097	3.92	20.9	1.84	<.486	84.0	<.243	.243	1.82	3.34	<.486
RL-45 185 190	123	.007	57.7	<.001	6.43	<.097	4.11	18.8	2.12	<.487	76.1	<.244	.151	2.01	3.96	<.487
RL-45 190 195	124	.008	35.2	<.001	5.56	<.099	3.09	23.4	2.21	<.495	77.2	<.247	.122	1.49	10.0	<.495
RL-45 195 200	125	.009	30.9	.001	8.38	<.099	3.48	19.6	2.31	<.494	79.7	<.247	<.099	1.62	18.8	<.494
RL-45 200 205	126	.006	17.4	<.001	8.15	<.097	2.10	19.1	1.24	<.487	77.8	<.244	.1	2.72	12.0	<.487
RL-45 205 210	127	.003	6.68	<.001	8.41	<.099	2.67	24.1	1.02	<.493	77.9	<.247	.159	3.16	2.95	<.493
RL-45 210 215	128	.003	5.56	<.001	7.79	<.099	2.60	31.2	.801	<.495	79.1	<.247	.243	2.86	6.86	<.495
RL-45 215 220	129	.003	6.33	<.001	7.73	<.098	2.46	28.7	.669	<.491	90.2	<.246	.350	3.03	1.67	<.491
RL-45 220 225	130	.01	19.6	<.001	12.0	<.099	10.0	48.0	3.13	<.494	98.3	<.247	.263	1.95	4.57	<.494
RL-45 225 230	131	.004	12.7	<.001	6.62	<.098	3.44	26.6	1.42	<.492	80.8	<.246	.209	3.02	1.58	<.492
RL-45 230 235	132	.005	14.2	<.001	5.59	<.098	5.44	27.1	1.48	<.49	76.0	<.245	.244	2.49	3.26	<.49
RL-45 235 240	133	.004	14.5	<.001	5.08	<.099	3.66	24.4	2.14	<.497	79.1	<.248	.219	2.34	1.93	<.497
RL-45 240 245	134	.041	27.5	.014	3.19	.136	7.97	23.9	3.67	<.494	80.5	<.247	.246	1.42	4.27	<.494
RL-45 245 250	135	.005	13.3	<.001	2.32	<.099	2.58	19.0	2.02	<.494	72.0	<.247	.221	2.06	3.36	<.494
RL-45 250 255	136	.004	8.46	<.001	3.80	<.099	3.56	20.5	1.55	<.496	65.2	<.248	.150	2.57	2.38	<.496
RL-45 255 260	137	.004	10.0	<.001	6.01	<.098	2.36	22.2	1.44	<.492	73.4	<.246	.134	2.81	1.31	<.492
RL-45 260 265	138	.004	9.55	<.001	4.44	<.098	2.29	19.9	1.55	<.491	67.7	<.245	.237	1.70	1.57	<.491
RL-45 265 270	139	.003	4.71	<.001	4.55	<.098	1.13	17.1	.881	<.488	66.6	<.244	.225	1.84	<.976	<.488
RL-45 270 275	140	.007	16.5	<.001	2.25	<.1	2.61	17.4	2.86	<.499	69.2	<.25	.146	1.58	3.35	<.499
RL-45 275 280	141	.005	9.39	<.001	3.59	<.098	1.53	19.0	1.44	<.489	69.9	<.244	.158	2.50	1.44	<.489
RL-45 280 285	142	.003	5.54	<.001	3.24	<.099	2.76	21.0	1.13	<.497	73.6	<.248	.111	2.63	1.10	<.497
RL-45 285 290	143	.011	19.8	<.001	4.47	<.098	2.59	20.0	2.79	<.49	81.1	<.245	.183	1.22	2.56	<.49
RL-45 290 295	144	.006	14.6	<.001	2.65	<.099	2.09	18.0	2.03	<.497	77.0	<.249	.140	2.20	1.87	<.497
RL-45 295 300	145	.004	8.54	<.001	2.59	<.097	2.46	18.9	1.77	<.487	60.8	<.244	<.097	2.53	1.28	<.487
RL-45 300 305	146	.003	6.10	<.001	3.51	<.099	4.52	20.6	2.08	<.497	78.6	<.248	.132	2.52	<.993	<.497
RL-45 305 310	147	.004	2.30	<.001	4.63	<.098	3.01	20.8	1.16	<.49	71.2	<.245	.098	3.17	<.979	<.49
RL-45 310 315	148	.003	2.35	<.001	3.77	<.098	3.30	18.1	1.14	<.492	65.8	<.246	.145	2.73	<.984	<.492
RL-45 315 320	149	.005	13.3	<.001	2.68	<.097	2.85	18.2	1.64	<.487	73.8	<.243	.127	2.54	1.22	<.487
RL-45 320 325	150	.016	28.4	.002	2.38	<.098	2.80	15.2	2.74	<.489	70.3	<.245	.146	1.40	4.13	<.489

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GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: LOA-9S5941

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-45 325 330	151	.007	19.9	<.001	3.24	<.098	2.71	21.7	2.76	<.488	85.2	<.244	.155	2.65	2.03	<.488
RL-45 330 335	152	.015	31.8	<.001	3.07	<.099	5.63	32.7	4.08	<.496	83.7	<.248	.479	1.32	4.03	<.496
RL-45 335 340	153	.009	10.3	<.001	4.44	<.1	3.64	20.2	1.94	<.499	78.9	<.249	.362	2.13	1.94	<.499
RL-45 340 345	154	.005	4.96	<.001	9.80	<.099	3.14	18.4	.920	<.495	75.4	<.248	.110	3.65	<.991	<.495
RL-45 345 350	155	.006	12.3	<.001	5.61	<.099	2.14	19.0	1.74	<.494	76.8	<.247	.171	2.43	1.72	<.494
RL-45 350 355	156	.007	19.3	<.001	2.71	<.099	3.94	18.2	3.49	<.493	56.3	<.247	.118	.866	3.36	<.493
RL-45 355 360	157	.019	9.64	.007	3.25	<.097	2.57	19.5	2.88	<.486	57.0	<.243	.112	1.44	1.79	<.486
RL-45 360 365	158	.002	<.984	<.001	2.92	<.098	1.07	15.0	<.246	<.492	49.1	<.246	<.098	1.65	<.984	<.492
RL-45 365 370	159	.002	1.28	<.001	5.48	<.099	1.65	12.4	.400	<.493	49.8	<.246	.211	1.86	<.986	<.493
RL-45 370 375	160	.002	1.41	<.001	4.21	<.099	1.59	10.9	.272	<.493	45.6	<.247	.129	1.91	<.986	<.493
RL-45 375 380	161	.003	4.68	<.001	2.37	<.098	.972	11.2	1.22	<.488	42.0	<.244	<.098	.713	1.36	<.488
RL-45 380 385	162	.002	5.66	<.001	1.89	<.097	.879	13.6	1.20	<.486	44.6	<.243	<.097	1.05	1.32	<.486
RL-45 385 390	163	.002	6.90	<.001	3.13	<.097	.918	15.7	1.23	<.487	46.6	<.243	.108	1.34	1.14	<.487
RL-45 390 395	164	.001	3.32	<.001	1.81	<.098	.844	15.1	.610	<.49	46.6	<.245	.104	1.67	<.98	<.49
RL-45 395 400	165	.001	1.64	<.001	2.76	<.097	.719	17.0	<.243	<.485	51.7	<.243	.119	1.99	<.97	<.485
RL-45 400 405	166	.002	6.55	<.001	2.57	<.099	1.97	15.6	1.27	<.495	54.3	<.247	.115	1.64	1.02	<.495
RL-45 405 410	167	.002	3.09	<.001	3.39	<.098	1.77	15.7	.372	<.492	68.1	<.246	.136	2.12	<.984	<.492
RL-45 410 415	168	.002	2.74	<.001	4.36	<.099	1.02	18.8	.901	<.494	55.2	<.247	.135	1.66	<.989	<.494
RL-45 415 420	169	.003	3.52	<.001	2.28	<.098	1.23	15.0	.939	<.489	45.9	<.245	<.098	1.05	<.978	<.489
RL-45 420 425	170	.009	12.5	<.001	2.17	<.099	3.12	16.0	1.53	<.493	46.0	<.246	.182	<.493	2.15	<.493
RL-45 425 430	171	.006	10.5	<.001	2.18	<.1	2.73	12.7	1.36	<.499	43.0	<.25	.168	.773	1.75	<.499
RL-45 430 435	172	.003	3.49	<.001	2.49	<.097	2.01	15.4	.682	<.486	64.3	<.243	.120	2.30	<.972	<.486
RL-45 435 440	173	.002	1.23	<.001	5.52	<.098	2.00	16.7	.322	<.489	67.7	<.245	.162	2.60	<.978	<.489
RL-45 440 445	174	.003	4.93	<.001	5.54	<.098	2.40	15.8	1.21	<.488	58.5	<.244	.228	2.04	<.975	<.488
RL-45 445 450	175	.003	6.98	<.001	3.52	<.098	2.06	17.9	1.19	<.488	68.9	<.244	.157	1.92	<.976	<.488
RL-45 450 455	176	.005	2.36	<.001	1.96	<.099	2.18	20.2	.281	<.495	57.8	.585	.349	1.78	<.989	<.495
RL-45 455 460	177	.002	1.39	<.001	2.08	<.097	1.71	26.3	.325	<.487	58.0	<.244	.748	1.90	<.975	<.487
RL-45 460 465	178	.002	1.00	<.001	2.04	<.098	.914	17.2	<.245	<.49	49.4	<.245	.180	1.56	<.979	<.49
RL-45 465 470	179	.005	2.00	<.001	2.70	<.098	2.14	33.4	.412	<.49	61.4	.326	.369	1.65	<.979	<.49
RL-45 470 475	180	.002	<.973	<.001	2.44	<.097	1.93	15.1	<.243	<.487	41.8	<.243	.396	1.54	<.973	<.487

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GEOCHEMICAL SERVICES INC.

GEOCHEMICAL ANALYSIS REPORT

JOB #: LOA-9S5941

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-45 475 480	181	.002	<.998	<.001	2.17	<.1	2.41	14.1	.250	<.499	60.7	<.25	.282	2.46	<.998	<.499
RL-45 480 485	182	<.001	<.978	<.001	2.04	<.098	1.96	18.7	.393	<.489	63.1	<.244	.210	2.36	<.978	<.489
RL-45 485 490	183	.004	<.97	<.001	2.44	<.097	2.01	19.5	.376	<.485	59.9	<.242	.327	1.99	<.97	<.485

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