60001270

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-35
AUTHOR	K. Kenner; N. Brewer; R. Grandin
DATE OF DOC(S)	1989; 1991
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; Bondar-Clegg, Inc; Environmental West Exploration
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 625' handwritten notes 18p.

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)

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

Revised: 1/22/08

DRILL LOGS RE-35
Rosebud

66001270 4010

60001270

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RE-35 TOTAL DEPTH 625' LOST LOGGED BY KLK

Date started Aug 22, 1989 0-265
Aug 23 265-525
Date completed Aug 24, 1989 525-625' 3:30pm

Initial bearing –

Initial inclination vertical

Elevation 5265.3

Collar coordinates:

N 2203547.0

E 481522.6

Contractor: Environmental West Explor.

Drill Type: RVC - Reich 650

Hole Size: Hammer - 5½"

Drilling Conditions: good till 585 - 625 poss following down throat of fault, collapse on rods 3 times torque up to 2500 air press run up to 360

Footage: Wet / Dry DRY 0 - 210

WET: 210 - TD

Comments: Hit fracture @ 196' w/ strong following clays - rods plugged @ 210' had to pull all rods to unplug hammer 40' of rods stuck w/ clay hole - fault caving @ 625'

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)
0	625		-90	Vert			

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PROJECT: ROSEBUD LOGGED BY: KLK HOLE NO. RE-35 PAGE 1 OF 13

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	Transport	0-4' OVERBURDEN 0-55' : ↓												<.001		<.10				
5	"	brun fragmental, whly bleached mod pervs argillic alt & wh pervs limonite, wh limon clays local wh fine stkwk str, local siliceous seams (calcedony?)		XK XL				ORG BUFF				tr limon replac py	local wk goethite vns assocw/ limon	.009		<.10				
10	Good	↑ 5-25 mod bl 10-25' mod white ? wk limon clays 10-15 - local stv limon vns		XK XL				"				"	"	.001		<.10				
15	"	mod stv clays		XK XL				"				"	"	.003		<.10				
20	"			XK XL				"				"	"	.001		<.10				
25	"	25-55 ↑ smectite ↓ bleaching / montronite green speckled w/ green alt + wh pervs limon clays + limonite mo ← mod		XL XK				"				"	"	.001		<.10				
30	"			XL XK				"				"	"	.001		<.10				
35	"			XK XL				"				"	"	.001		<.10				
40	"			XK XL				"				"	"	<.001		<.10				
45	"			XK XL				"				"	"	<.001		<.10				
50																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-35 PAGE 2 OF 13

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	same @ 25-30 w/ ↑ perv limonite						ORANGE				2% + relict py casts		.001		<.10				
55	GOOD	55-123' Bleached v. lt green tuff ± fine fragmental perv. arg. clay alt wh v lt limon clays to lt white to lt green clays w/ local limon ions						lt WHITE GREEN				tr to 1% relict py + limon repl py		.001		<.10				
60	"	↑ white + lt green clays						"				"		.001		<.10				
65	"	wh ↑ fragmental w/ mod to mod str assoc limonite						orange				"		.001		<.10				
70	"	w/ limonite chips 75-90 mod strong to strong white + limon clay						orange + lt white green				@ 2%		.001		<.10				
75	"							lt white green				" @ 1%		<.001		<.10				
80	"	wh moisture						"				"		<.001		<.10				
85	"							"				"		<.001		<.10				
90	"	mod white green clays						"				"		<.001		<.10				
95	"							"				"		<.001		<.10				
100																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-35 PAGE 3 OF 13

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
100	GOOD	100-123' Bleached-lt green fine fragmental + tuff, med perv argillic clay alt 100-105 lt limon clay pch white clay alt clasts in frag						lt green				± 1% diss py		.001		<.10				
105	"							"				"		<.001		<.10				
110	"							"				"		<.001		<.10				
115	"							"				"		<.001		<.10				
120	"	123' wh crack						"				"		<.001		<.10				
125	"	123 - 150 → medium green fine fragmental wakey bleached wk to mod perv argillic clay alt clasts in frag white clay alt local lt green wkey clay alt slight ↓ be						med. green				± 1% relict py casts		<.001		<.10				
130	"							lt med green				"		<.001		<.10				
135	"							"				"		<.001		<.10				
140	"							"				"		<.001		<.10				
145	"	wh lt green + wkey limon clay						"				"		.004		<.10				
150																				

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PROJECT: ROSEBUD LOGGED BY: KLIC HOLE NO. RE-35 PAGE 4 OF 13

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
150	GOOD	150-163' medium grass green fragmental w/ white clay altered 150-155 mod → whey limon clays locally whey bleached locally whey silicified wk stockwork						green + org				±1% limon replace ✓✓		.001		.13				
155	"							green				"		.001		.16				
160	"							green + orange				"		.002		.11				
165	"	163-190 very to mod strong - strongly limon* clays m/ sporadic fine grain w/ poss tuff component						BRIGHT GOLDEN ORANGE				DIFFICULT TO TELL through CLAYS		.005		<.10				
170	"	168-172' FRACTURING w/ gossanous leached oxidized ±SiO2 vno + relict diss py casts - locally limon replac.						"						.001		<.10				
175	"		CLAY					"						.002		<.10				
180	"							"						<.001		<.10				
185	"							"						.003		<.10				
190	"	190-210 mod to strong green clay						green						.004		.20				
195	"	strong green + limon clays						green + orange						.007		1.45				
200																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-35 PAGE 5 OF 13

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
200	ETDBTBOS	210-300: tuffs appearance may just be strong clay alt w/ mod relict textures! or fragmental?																		
		200-210 - pass w/ mini of tuff ± fine fragmental mod str. lt green clays mod-str pyr. argillic clay alt o/w pyr smectite / montmorillonite alt						green				2% diss py		.004		.10				
205	"	same mod lt tuffs + wk green clays						"				"		.013		.28				
		rods plugged up 40' - had to be pulled → clays																		
210	GOOD	210-300 mixed tuffs ± fine fragmental w/ strong pervasive green + montmorillonite? (smectite) mod strong pyr. clay alt. caste locally white clay alt. local 1 brown waxy		xc xc				deep sea green				2-3% diss + vn py + py?	bladed marcas	.003		<.10				
215	"	clay veins local w/ calcedony vns locale deep green fine stkwk ± SiO2		xk				"				"		.002		<.10				
		w/ ↑ bright green waxy clays																		
220	"	w/ mod str clusters of cubic py w/ assoc SiO2 vns		xk xv				"				" @ 3-4%		.001		<.10				
225	"	↑ montmorillonite w/ hard white opaque calcedony + py vns + fine frag JR shale frag? fine structure? ↑ lt green waxy clay vns		xc				"				"		.001		<.10				
230	"	↑ lt green waxy clay vns		xc				"				"		.001		<.10				
235	"	mod str arg clay alt ↓ calced vns + stkwk						"				1-2% diss py		.001		<.10				
240	"	← w/ fine grained siliceous tuffs frag w/ assoc limon → contamination?		xc				"				2%+ diss + vn cluster py		.001		<.10				
245	"			xc				"				"		.001		<.10				
250																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-35 PAGE 6 OF 13

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
250	GOOD	250-300 mixed tuffs ± lime frag w/ str perv. montmorillonite? (smectite) strong argillic perv clay alt w/ green waxy clay vns. clasts locally white clay alt to calcite/clay vns local wk siliceous bed		Xc				dkp ga green				1-2% fine diss py		.003		<.10				
255	"	250-285° w/ limonitic qtz vns - drusy may be contam. (mod-wk lt-apple green SiO2 vnk ± FeOx wk green ± SiO2 stkwk)		Xc				"				"		.002		<.10				
260	"	more prominent w/ wk bleach mineral? fragmental w/ & perv. arg. alt		Xc XK				"				" @ 2-3%		.001		<.10				
265	"	↑ fragmental tuffs - lumes ↑ dkp green waxy clay alt		Xc				"				"		<.001		<.10				
270	"	270-280 local brecciation w/ assoc silicification + 2ndary stkworking		X Δ Xc				"				" @ ~2%		.001		<.10				
275	"	w/ wh. white clay		X Δ Xc				"				"		<.001		<.10				
280	"	mod calcitizing veins w/ assoc 2ndary stkwk ↑ fragmental local wk bleaching		X XK Xc				"				"		<.001		.10				
285	"	wh local seams of silicification 285-300 mod to str lt green waxy clay vns		X Xc				"				1-2% diss py		<.001		<.10				
290	"	(v. str waxy clay alt) w/c white clay alt poss crl vns		Xc				"				"		<.001		<.10				
295	"	wh white clay alt wh perv. silicification wk dk green stkwk ± vns		X XK				"				"		<.001		.13				
300																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-35 PAGE 7 OF 13

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
300	GOOD	300-400 fragmental - lt grn + buff blsh-tan by lt grn w/ white bleached frags w/in buff-tan matrix, wkly pyr silicified locally wk white sos & clay vns 300-315 grainy text		X				lt grn + buff				2% diss py		.001		<.10				
305	"	300-305 w/ tuff component wkly calcareous pre-vein lt gray brn gray frag		X				"				2-3% diss py		.007		.16				
310	"	wk bleaching + wkly fmd stockwork frags		XK X				"				3% VN + diss py		.003		.24				
315	"	↑ nontronite alt mod arg bleach ± wk clay alt poss wk alunite vns ↑ sulfides pyr. gray fracture wk grn hairline stockwork		XK				"				3-4% diss + VN py + bleached py or marcasite w/ white clay		.013		<.10				
320	"	(325-340 w/ lt brn to tan crndy silicification w/ abdc fracturing + calcedony - dep carmel brn w/ strong assoc py w/ poss wk grn hairline crisp. + wk intermittent bleaching + pyrite-filled stockworking)		XK XC X				"				"		.005		<.10				
325	"			XC X XK				"				4-5% diss + VN py		.007		<.10				
330	"			XC X XK				"				~2% diss + VN py		.004		<.10				
335	"			XC X XK				"				"		.004		<.10				
340	MODERATE	strong pyr. argillic clay alt + ↑ pyr. bleaching strong dep grn stockwork, mod + wkly fractured		XK				"				~5% VN + diss py		.005		<.10				
345	"	mod strong white clay alt w/ calcedony		XC XK				"				2-3% diss + VN py		.011		<.10				
350																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-35 PAGE 8 OF 13

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
350	GOOD	350-370 mixed grainy tuff + fine fragmental pyr w/ local silicification w/ local silicification, moderate stockwork w/ local silicification, moderate stockwork 350-355 str drusy + stkwk throughout py		XK XC				Buff + lt green				~4% vn + diss py		.007		<.10				
355	"	poss w/ dolomite veins		XK XC				"				"		.005		<.10				
360	"	w/ ↑ calcedony vns		XK XC				"				2-3% vn + diss py		.003		<.10				
365	"	w/ white soft clay w/ contamination ~5%		XK XC				"				" @ 3%		.005		<.10				
370	"	370-400 fragmental - (pyroclastic) clasts are bleached white to beige, grain in color w/ matrix w/ py silicified ↑ w/ calcareous protum composed of tuff breccia locally solitary - broken over of the mass - the matrix is a fine ph breccia		X				"				~3% finely diss + blotched? py		.002		.19				
375	"			X				"				"		.005		<.10				
380	"			X				"				"		.003		<.10				
385	"	~7% + contamination		X				"				"		.039		1.48				
390	"	w/ calcite vns		X				"				"		.037		2.22				
395	"	w/ calcite vns		X				"				"		.013		.23				
400																				

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PROJECT: ROSEBUD LOGGED BY: KLK HOLE NO. RE-35 PAGE 9 OF 13

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 V	Ag	As	Hg	Sb	Se
400	GOOD	400 → 400 - May all be a well alt fragmental w/ v. weak relict frag to nonexistant texture. Mixed fine gr tuff + tuffaceous fragmen weak-mod pervasively bleached, weakly to mod pervasively silicified - off white to buff, local SiO_2 encap of fragmental clasts. Weak fine stockwork		XX XK				LT. TAN TO OFF WHITE				3-4% diss + fn vn py	2-3% mod stk. Ag mineral	.049		.30				
405	"	400-420 w/ black/silver rich mineral ~20% ± contamination		XX XK				"				" plus blebs metallic	"	.250		2.73				
410	"	w/ tellurium replace sulfide to army gun gray veins		XX XK				"				"	"	.053		1.05				
415	"	w/ wh calcite veining w/ relict frag texture		XX XK				"				"	"	.056		.45				
420	"	w/ wh calcite veining tuffy buff grainy		XX XK				"				3-4% diss + fn py + blebs metallic		.024		<.10				
425	"	loosing frag texture - probably due to alt 15-20% contamination		XX XK				"				" @ ~3%		.024		.15				
430	"	wk. relict frag texture		X XK				"				"		.017		.10				
435	"	tuffy whity grainy + wk. relict frag texture		X XK				"				"		.007		<.10				
440	"	wk local ↑ bleaching		X XK				"				"		.008		.11				
445	"	pass w/ flow banding textures		X XK				"				"		.006		<.10				
450		↓ 7% CONTAMINATION																		

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-35 PAGE 10 OF 13

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
450	GOOD	450-500 Mixed fine crystal tuff + fine fragmental w/ prev. bleaching, off white to tan wk argillic w/ tan mod prev. silicification fine wh qtz stkwk locally encapsulating sulfide frags. w/ bleached white clasts in tan matrix w/ local	V V V	XY XK				LT TAN TO OFF WHITE				~3% fine diss py		.007		.10				
455	"	silic flow banding ostuff 450-455 5% CaCO3 vns	V V V	XY XK				"				"		.006		<.10				
460	"	2% calcite vns																		
465	"	local micro Δia vns	V Δ V	XY Δ XK				"				"		.005		<.10				
470	"	~3-5% contamination	V V V	XY XK				"				2-3% diss ±VN + wk sulfide	py blebs	.004		<.10				
475	"	wk ↑ fine hairline qtz stkwk	V V V	XY XK				"				" @ 3%		.005		4.05				
480	"	wh silic flow banding ~1% limon replac py	V V V	XY XK				"				"		.011		.22				
485	"	wh dark/bright green calcedony SiO2 vns + silic flow banding	V V	XY XK				"				"		.014		.12				
490	"	wh gray clay local micro breccia vns ~10% contamination	V (Δ Δ) V	XY XK				"				"	poss w/ calcopy	.010		<.10				
495	"	493-500 CRACK wk ↑ hairline stockwork qtz, wk ↑ bleaching locally wk ↑ clay alt	V X	XY XK				"				"		.035		.76				
500	"	poss alunite + sulfide vns	X X	XY XK				"				"		.032		1.43				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-35 PAGE 11 OF 13

Depth	RECOVERY	LITHOLOGIC DESCRIPTION 510'	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
500	GOOD	Mixed fine grained flowbanded tuff + fine fragmental, with perv bleached mbd perv silicification, wk to mod fine hairline qtz stkwk w/ locally encap py		XX Xk				OFF WHITE TO LT. TAN				3% fine diss + vn py		.016		.42				
505	"	w/ lt green waxy clay vns perv v. white strong clay/bleached frags ~7% contamination		X				"				" @ 2-3%		.005		.10				
510	"	510-575 Fine grained tuffs locally flowbanded w/ preferential white clay alt of feldspars leaving pitty texture wk to mod lt green waxy clay vns local wk hairline stockwork qtz perv. bleached olg white to tan coloration locally stkwk encap sulfides local v. siliceous interbeds of tuff wk to mod perv. silicification 510-520 ut banded wk calcite vns fragmental		X Xk				"				" @ 3%		.044		.33				
515	"			X Xk				"				" @ 2-3%		.007		.88				
520	"	wk ↑ green alt + nontronite green + SiO2 vesicle fill		X Xk				"				"	plus black sulfide (short)	.026		<.10				
525	"	wk calcite vns wk ↑ nontronite alt		X Xk				"				"	"	.011		.63				
530	"	wk calcite vns		X Xk				"				"	"	.015		.62				
535	"	local wk white alunite + placed sulfide vns		X Xk				"				"	"	.039		.59				
540	"	wk fragmental component		X Xk				"				"	"	.017		<.10				
545	"	stronger flowbanding textures		X Xk				"				"	"	.001		<.10				
550																				

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PROJECT ROSEBUD LOGGED BY KLK HOLE NO. RE-35 PAGE 12 OF 13

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
550	GOOD	550-575 fine grained tuff + local flowbanding, preferential white clay alt of feldspars leaving pithy texture wk fracture stockwork locally encapsulation sulfides uns wk to mod green waxy clay		Y Xk				OFF WHITE TO TAN				2-3% diss + vn py	plus bladed metallic	.004		.12				
555	"	uns, local nontronite alt wk pers. silicif pers. bleached wk to mod white strongly clay alt zones		X Xk				"				"	"	.006		<.10				
560	"	wk↑ nontronite green + white clay uns wk↑ pers. nontronite		X Xk				"				"	"	.004		.24				
565	"	becoming more flesh in coloration w/ ↑ nontronite alt		Y Xk				"				"	"	.004		<.10				
570	"	mottled more flesh + nontronite green		Y Xk				"				" w/ pr. uns	"	.001		<.10				
575	"	575-625 fine grained to grainy tuff orange flesh + green (nontronite alt) mottled due to preferential clay alt of feldspars wk to mod strong waxy clay uns wk white soft clay uns w/ calcite vns pyr. new lin stwk qtz		X Xk				orange flesh + green				~1% diss + vn py		.003		<.10				
580	"			X Xk				"				@ 2%		.019		<.10				
585	TOO MUCH due TO FAULT	585-625 FAULT: fragmental to brecciated chlor clay alt w/ orange tan siliceous matrix wk to mod calcite uns mod well silicified fr stwk local wk Fe bound ↑ calcite vns	F A	XX Xk				"				2-3% diss + vn py	CLUSTER	<.001		<.10				
590	"		W E	X Xk				"				@ 3%		.001		<.10				
595	GOOD		T V	X Xw				"				"		.002		<.10				
600																				

LAC MINERALS U.S.A. INC.

PROJECT: ROSEBUD LOGGED BY: KLK HOLE NO. RE-35 PAGE 13 OF 13

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
600	CAVING TOO MUCH SAND	600-625 CONTINUED FAULT fine grained to granular tuffs locally pribbential clay alt of feldspars lt to medium gray, brown to bleached w/ area green (nontronite alt, mod calcite vns pyr. silicified		~ XX Xc				TAN GREEN GRAY BRN				3%+ diss + vn py + marcasite		.003		<.10				
605	GOOD	7-10 % calcite vns up to 30% contamination		~ XX Xc				"				4% diss ±vn py w/ poss marcasite		.004		.88				
610	"	3% calcite vns poss up to 20% contam w/ calcite vns w/ blue gray waxy clay vns		~ XX Xc XK				"				" @ ~3%		.005		<.10				
615	"	615-625 wk ↑ argillic alt poss up to 15% contam		~ XX XK				"				"	plus black mineral Ag?	<.001		<.10				
620	"	milky H2O		~ XX XK				"				"	"	.002		<.10				
625		TD LOST HOLE																		
630		CAVING Torque ↑ 1200 Air Press ↑ 360																		
635																				
640																				
645																				
650																				

NEVADA GSI
GEOCHEMICAL SERVICES, INC.

SEP 08 1989

GEOCHEMICAL ANALYSIS REPORT

September 6, 1989

Mr. Nate Brewer
LAC Minerals USA, Inc.
1385 Greg St. #107
Sparks, NV 89431

Number of Samples: 125
GSI Number: 5290
Analysis: Fire Assay for Gold and Silver, with an A.A. finish.

	Sample I.D.			Au o/t	Ag o/t
1	SAMPLE:	RE-35	0 5	<.001	<.10
2	SAMPLE:	RE-35	5 10	0.009	<.10
3	SAMPLE:	RE-35	10 15	0.001	<.10
4	SAMPLE:	RE-35	15 20	0.003	<.10
5	SAMPLE:	RE-35	20 25	0.001	<.10
6	SAMPLE:	RE-35	25 30	0.001	<.10
7	SAMPLE:	RE-35	30 35	0.001	<.10
8	SAMPLE:	RE-35	35 40	0.001	<.10
9	SAMPLE:	RE-35	40 45	<.001	<.10
10	SAMPLE:	RE-35	45 50	<.001	<.10
11	SAMPLE:	RE-35	50 55	0.001	<.10
12	SAMPLE:	RE-35	55 60	0.001	<.10
13	SAMPLE:	RE-35	60 65	0.001	<.10
14	SAMPLE:	RE-35	65 70	0.001	<.10
15	SAMPLE:	RE-35	70 75	0.001	<.10
16	SAMPLE:	RE-35	75 80	<.001	<.10
17	SAMPLE:	RE-35	80 85	<.001	<.10
18	SAMPLE:	RE-35	85 90	<.001	<.10
19	SAMPLE:	RE-35	90 95	<.001	<.10
20	SAMPLE:	RE-35	95 100	<.001	<.10
21	SAMPLE:	RE-35	100 105	0.001	<.10
22	SAMPLE:	RE-35	105 110	<.001	<.10
23	SAMPLE:	RE-35	110 115	<.001	<.10
24	SAMPLE:	RE-35	115 120	<.001	<.10
25	SAMPLE:	RE-35	120 125	<.001	<.10
26	SAMPLE:	RE-35	125 130	<.001	<.10
27	SAMPLE:	RE-35	130 135	<.001	<.10
28	SAMPLE:	RE-35	135 140	<.001	<.10
29	SAMPLE:	RE-35	140 145	<.001	<.10
30	SAMPLE:	RE-35	145 150	0.004	<.10
31	SAMPLE:	RE-35	150 155	0.001	0.13
32	SAMPLE:	RE-35	155 160	0.001	0.16
33	SAMPLE:	RE-35	160 165	0.002	0.11
34	SAMPLE:	RE-35	165 170	0.005	<.10
35	SAMPLE:	RE-35	170 175	0.001	<.10
36	SAMPLE:	RE-35	175 180	0.002	<.10
37	SAMPLE:	RE-35	180 185	<.001	<.10

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	Sample I.D.	Au o/t	Ag o/t
38	SAMPLE: RE-35 185 190	0.003	<.10
39	SAMPLE: RE-35 190 195	0.004	0.20
40	SAMPLE: RE-35 195 200	0.007	1.45
41	SAMPLE: RE-35 200 205	0.004	0.10
42	SAMPLE: RE-35 205 210	0.013	0.28
43	SAMPLE: RE-35 210 215	0.003	<.10
44	SAMPLE: RE-35 215 220	0.002	<.10
45	SAMPLE: RE-35 220 225	0.001	<.10
46	SAMPLE: RE-35 225 230	0.001	<.10
47	SAMPLE: RE-35 230 235	0.001	<.10
48	SAMPLE: RE-35 235 240	0.001	<.10
49	SAMPLE: RE-35 240 245	0.001	<.10
50	SAMPLE: RE-35 245 250	0.001	<.10
51	SAMPLE: RE-35 250 255	0.003	<.10
52	SAMPLE: RE-35 255 260	0.002	<.10
53	SAMPLE: RE-35 260 265	0.001	<.10
54	SAMPLE: RE-35 265 270	<.001	<.10
55	SAMPLE: RE-35 270 275	0.001	<.10
56	SAMPLE: RE-35 275 280	<.001	<.10
57	SAMPLE: RE-35 280 285	<.001	0.10
58	SAMPLE: RE-35 285 290	<.001	<.10
59	SAMPLE: RE-35 290 295	<.001	<.10
60	SAMPLE: RE-35 295 300	<.001	0.13
61	SAMPLE: RE-35 300 305	0.001	<.10
62	SAMPLE: RE-35 305 310	0.007	0.16
63	SAMPLE: RE-35 310 315	0.003	0.24
64	SAMPLE: RE-35 315 320	0.013	<.10
65	SAMPLE: RE-35 320 325	0.005	<.10
66	SAMPLE: RE-35 325 330	0.007	<.10
67	SAMPLE: RE-35 330 335	0.004	<.10
68	SAMPLE: RE-35 335 340	0.004	<.10
69	SAMPLE: RE-35 340 345	0.005	<.10
70	SAMPLE: RE-35 345 350	0.011	<.10
71	SAMPLE: RE-35 350 355	0.007	<.10
72	SAMPLE: RE-35 355 360	0.005	<.10
73	SAMPLE: RE-35 360 365	0.003	<.10
74	SAMPLE: RE-35 365 370	0.005	<.10
75	SAMPLE: RE-35 370 375	0.002	0.19
76	SAMPLE: RE-35 375 380	0.005	<.10
77	SAMPLE: RE-35 380 385	0.003	<.10
78	SAMPLE: RE-35 385 390	0.039	1.48
79	SAMPLE: RE-35 390 395	0.037	2.22
80	SAMPLE: RE-35 395 400	0.013	0.23
81	SAMPLE: RE-35 400 405	0.049	0.30
82	SAMPLE: RE-35 405 410	0.250	2.73
83	SAMPLE: RE-35 410 415	0.053	1.05
84	SAMPLE: RE-35 415 420	0.056	0.45

	Sample I.D.	Au o/t	Ag o/t
85	SAMPLE: RE-35 420 425	0.024	<.10
86	SAMPLE: RE-35 425 430	0.024	0.15
87	SAMPLE: RE-35 430 435	0.017	0.10
88	SAMPLE: RE-35 435 440	0.007	<.10
89	SAMPLE: RE-35 440 445	0.008	0.11
90	SAMPLE: RE-35 445 450	0.006	<.10
91	SAMPLE: RE-35 450 455	0.007	0.10
92	SAMPLE: RE-35 455 460	0.006	<.10
93	SAMPLE: RE-35 460 465	0.005	<.10
94	SAMPLE: RE-35 465 470	0.004	<.10
95	SAMPLE: RE-35 470 475	0.005	4.05
96	SAMPLE: RE-35 475 480	0.011	0.22
97	SAMPLE: RE-35 480 485	0.014	0.12
98	SAMPLE: RE-35 485 490	0.010	<.10
99	SAMPLE: RE-35 490 495	0.035	0.76
100	SAMPLE: RE-35 495 500	0.032	1.43
101	SAMPLE: RE-35 500 505	0.016	0.42
102	SAMPLE: RE-35 505 510	0.005	0.10
103	SAMPLE: RE-35 510 515	0.044	0.33
104	SAMPLE: RE-35 515 520	0.007	0.88
105	SAMPLE: RE-35 520 525	0.026	<.10
106	SAMPLE: RE-35 525 530	0.011	0.63
107	SAMPLE: RE-35 530 535	0.015	0.62
108	SAMPLE: RE-35 535 540	0.039	0.59
109	SAMPLE: RE-35 540 545	0.017	<.10
110	SAMPLE: RE-35 545 550	0.001	<.10
111	SAMPLE: RE-35 550 555	0.004	0.12
112	SAMPLE: RE-35 555 560	0.006	<.10
113	SAMPLE: RE-35 560 565	0.004	0.24
114	SAMPLE: RE-35 565 570	0.004	<.10
115	SAMPLE: RE-35 570 575	0.001	<.10
116	SAMPLE: RE-35 575 580	0.003	<.10
117	SAMPLE: RE-35 580 585	0.019	<.10
118	SAMPLE: RE-35 585 590	<.001	<.10
119	SAMPLE: RE-35 590 595	0.001	<.10
120	SAMPLE: RE-35 595 600	0.002	<.10
121	SAMPLE: RE-35 600 605	0.003	<.10
122	SAMPLE: RE-35 605 610	0.004	0.88
123	SAMPLE: RE-35 610 615	0.005	<.10
124	SAMPLE: RE-35 615 620	<.001	<.10
125	SAMPLE: RE-35 620 625	0.002	<.10

This report reviewed and approved by:

Richard A. Grondin

Richard Grondin, Operations Manager

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 7-MAR-91

REPORT: R91-10373.4

PROJECT: 75351

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT
P4 RE35 475-480		0.012			P4 RE65 415-420		0.010		
P4 RE35 480-485		0.018			P4 RE65 420-425		0.008		
P4 RE35 485-490		0.023			P4 RE65 425-430		0.008		
P4 RE35 490-495		0.044			P4 RE65 430-435		0.008		
P4 RE35 495-500		0.023			P4 RE65 435-440		0.005		
P4 RE35 500-505		0.024			P4 RE67 560-565		0.008		
P4 RE35 505-510		0.003			P4 RE67 565-570		0.003		
P4 RE35 510-515		0.080			P4 RE67 570-575		0.048		
P4 RE35 515-520		0.009			P4 RE67 575-580		0.041		
P4 RE35 520-525		0.003			P4 RE67 580-585		0.007		
P4 RE35 525-530		0.009			P4 RE67 585-590		0.007		
P4 RE35 530-535		0.020			P4 RE67 590-595		0.021		
P4 RE35 535-540		0.035			P4 RE67 595-600		0.003		
P4 RE35 540-545		0.021			P4 RE67 600-605		0.005		
P4 RE58 555-560		0.015			P4 RE67 605-610		0.005		
P4 RE58 560-565		0.018			P4 RE67 610-615		0.003		
P4 RE58 565-570		0.036			P4 RE67 615-620		0.012		
P4 RE58 570-575		0.117	0.132		P4 RE67 620-625		0.015		
P4 RE58 575-580		0.028			P4 RE67 625-630		0.008		
P4 RE58 580-585		0.031			P4 RE67 630-635		0.008		
P4 RE58 585-590		0.019			P4 RE67 635-640		0.063		
P4 RE58 590-595		0.012			P4 RE67 750-755		0.026		
P4 RE58 595-600		0.016			P4 RE67 755-760		0.024		
P4 RE65 330-335		0.004			P4 RE67 760-765		0.009		
P4 RE65 335-340		0.008			P4 RE67 765-770		0.004		
P4 RE65 340-345		0.005			P4 RE67 770-775		0.003		
P4 RE65 345-350		0.011			P4 RE67 775-780		0.010		
P4 RE65 350-355		0.035			P4 RE67 780-785		0.013		
P4 RE65 355-360		0.192			P4 RE67 785-790		0.012		
P4 RE65 360-365		0.039			P4 RE67 790-795		0.006		
P4 RE65 365-370		0.026			P4 RE67 795-800		0.009		
P4 RE65 370-375		0.053			P4 RE67 800-805		0.008		
P4 RE65 375-380		0.025			P4 RL70C 635-640		0.017		
P4 RE65 380-385		0.022			P4 RL70C 640-645		0.038		
P4 RE65 385-390		0.014			P4 RL70C 645-650		0.051		
P4 RE65 390-395		0.031			P4 RL70C 650-655		0.006		
P4 RE65 395-400		0.025			P4 RL70C 655-660		0.017		
P4 RE65 400-405		0.059			P4 RL70C 660-665		0.004		
P4 RE65 405-410		0.035			P4 RL70C 665-670		0.075		
P4 RE65 410-415		0.007			P4 RL70C 670-675		0.006		