60001433

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-214
AUTHOR	T. Kuhl; K. Gammon; R. Donata; S Adams
DATE OF DOC(S)	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; Stevens Drilling; Lac Minerals (USA), Inc; Bondar-Clegg, Inc Chemex Labs, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 465' handwritten notes 30p.

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	5/21/08
DB:	Mch	
SCANNED:		

Revised: 1/22/08

DRILL LOG RL-214
Rosebud

60001433 4010

6000 1433

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL 214 TOTAL DEPTH 1000 LOGGED BY RKS

Date started 8/9/91

Date completed 8/14/91

Initial bearing –

Initial inclination -90°

Elevation 5389.3

Collar coordinates:

N 2203670.0

E 483494.3

Contractor: Stevens

Drill Type: RC

Hole Size: 5½

Drilling Conditions: Bueno

Footage: Wet / Dry 0-465' dry

465-1000 wet

Comments: 1600 N

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

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

DRILL HOLE RL-214

Page 1 of 10

8/9

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.
									Brn Yllw org Red					OB - Qal				
05																		
10															<	<		
15																		
20															4/<	.03/<		
25														Bedrock at 25'				
30									lt Yllw wht org					Ct - Fine Grain tuff: Protolith very difficult to determine	.005	.06		
35															.005	.07		
40															.012	.06		
45														(w/ minor Clear Qtz vn)	.013	.09		
50															.007	.08		
55																		
60														trace Qtz	<	.05		
65															.004	.06		
70														(trace Qtz	.038	.11		
75															.003	.07		
80									Brn-Org Red Yllw Wht					Strg FeOx	.006	.15		
85									Brn-Org lt Grey Yllw					ox Redox				
90									lt Grey Brn-org				.5	sulf 1st visible sulf.	.005	.11		
95									lt Grey Flesh									
00															.002	<		

Bedrock 25'

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

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LITHIC LAPILLI TUFF

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Ca CALCITE

DRILL HOLE RL-214

Page 2 of 10

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.
									lt Grey lt Green Flesh				.1	SAA-Ct				
105									Brn-red				0		<	<		
110																		
115															</<	<		
120																		
125															<	<		
130																		
135									lt Green				.1		.005	<		
140									Brn-red lt Grey lt Green				.5	(W) Lics. Banding				
145									lt Green Flesh-red						.003	<		
150																		
155															<	<		
160																		
165															<1/<	.04/.03		
170																		
175															.009	.05		
180																		
185															<	<		
190															.039	±2.12/2.51		
195									lt Grey Flesh lt Green					(Slight incr. sulf.)	.011	.30/.23		
200		x																

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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Ca CALCITE

DRILL HOLE RL-214

Page 3 of 10

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.
		X							Olive lt Grey Flesh				.5	SAA - Ct	<	.05		
205									↓				↓		<	.03		
210									Olive Flesh				.1					
215													.1		.003	.07		
220									↓				.5					
225									Olive lt Grey Flesh					slightly damp	<1/<	<		
230															<	.04		
235															<	.03		
240															.004/.004	.04/.05		
245									lt Green Olive				.1		<	.04		
250																		
255															.003	.04		
260																		
265									Brn-red lt Green						<	<		
270									lt Green Brn-red									
275									Brn-red lt Green						<	<		
280									↓				↓					
285									Brn-red				0		<	<		
290																		
295									↓				↓	↓	.003	.03		
300																		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

ARGILLIC
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OX OXIDIZED
XXXXXX DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
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P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-214

Page 4 of 10

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.
									lt Green Olive Brn-red				.1	SAA-Ct				
305									Green Olive Grn Flesh				.5		.003	.14		
310									↓				↓					
315									Flesh lt Olive-Grn				.1		.003	.06		
320									Olive Brn-red									
325									Green Olive Brn-red						<1/<	<		
330									lt Green Green Flesh									
335									↓						.044	.10		
340																		
345									Brn-red lt Green						<	.03		
350									lt Green Green									
355									↓					(w/ trace Blck sulf) (damp)	.007	.64		
360									↓									
365									Brn-red				0		<	<		
370									Brn-red Olive				.1					
375									lt Green Olive-Green				↓	(w/trace Blck sulf.)	<	.14/.15		
380									lt. Olive-Grn lt Grey wlw				.5	(damp)				
385									↓ & flesh				↓		.007	.15		
390									Olive lt Green Green				.1					
395									Olive Brn-red				↓	↓	<	.05		
400																		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

ARGILLIC
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XXXXXX DRUZY QUARTZ
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DRILL HOLE RL-214

Page 5 of 10

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.
									Brn-red				0	SAA - Ct	<	<		
405															<	<		
410															<\<	<		
415									Olive Brn-red				.1		<	.03		
420									Green lt Green Flesh-red				.1		<	<		
425									Green Olive Brn-red				.1					
430									Brn-red Lav-Grey									
435									Brn-red Olive									
440									Green Olive-Grn				.5			.12		
445									; Flesh				.5	(trace calc vn)		.06		
450													.5		.018	.81		
455													.5	(strg clay alt) looks like Bud	.026	.17		
460													.5	It is Pt (W/ clasts of Blck shale in Fault zone trace Barite)	.016 / .019	.04		
465									lt Grey lt Green tan why				.5	looks like Dozer tuff (wk minor Bx) Strong Bleaching & Incr. sulf	.013	.04 / .04		
470													1	(wk to mod dissem sulf.)	.004	.04		
475													1		.003	.04		
480													1	8/9 8/10	.007	.04		
485									lt Grey lt Sage Green Flesh wh						<	.03		
490															.009	.03		
495															.004	.04		
500																		

Injecting H_2O

Fault H_2O

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

* H_2O sample From water truck; Injected from 465' to 540' & 580 - 585

ARGILLIC
XX SILICIFICATION
OX OXIDIZED
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XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-214

Page 6 of 10

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.
									lt Green lt Grey Flesh				.5	SAA - Dt	<1/<	.03/.03		
505															.003	.04		
510															<	<		
515															<1/<	.03		
520															<	.03		
525															<	<		
530									lt Grey Flesh wht					(Svg Bleaching & Brecciated)	.003	.05		
535															<	.04		
540													1		<	.04		
545									& lt Green				1		<	.05		
550									lt. Green lt. Grey Flesh				1		.047	.09		
555									Sage Green				.5		<	<1/<		
560													.5		.007	<		
565															<1/<	<		
570									lt Grey-Olive					(slight incr. sulf)	<	<		
575									lt Green lt Grey-Grn						<	<		
580															.005	.04		
585														Hard Rock ∴ Hard Drilling	.021	.04		
590															.004	.03		
595															<	.03		
600																		

Frac Fault? Quit injecting * H_2O

Inject * H_2O Quit Inject

Inject

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

3 hrs drilling = 1 Bit

ARGILLIC
XX SILICIFICATION
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DRILL HOLE RL-214

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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.
* Inject ↑									lt Green lt Green-Grey				.5	SAA - Dt	<	<		
605									lt Grey lt Grey-Grn Flesh				1	(Incr. sulf)	<	.05		
610																		
615													.5			.04		
620									lt Green wht							.04		
625														8/10 8/11		.03		
630									lt Green lt Olive							.10		
635														(w/ Blue coating on frax surface → may be an alteration product of chlorite (?))		.10		
* Inject H_2O 640															<</<	.06/.05		
645									lt Grey Flesh wht					(strg. Bleaching) (w/ trace dk Grey Qtz) Incr drilling rate too!	<	.04		
650									wht Flesh					(micro Brecciated) (Slight incr sulf) w/ trace Blck Qtz & micro clear Qtz vn	.015	1.66		
655													1		<	.08	.002	
660									wht Flesh Green				1		.002	.10		
665													1		.009	.12		
670															.003	.11		
675														w/ calcite & micro-Qtz vn trace Bx	.004	.15		
680															.002/<	.11/.12		
685														Brecciated w/ calcite 8/11 8/12	<	.09		
690															.003/.002	.10		
695														micro-Bx	.003	.08		
Fault 700													.5	(w/ slicks)	<	.14		

LAC MINERALS (U.S.A.) INC.
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DRILL HOLE RL-214

Page 8 of 10

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.
Fault									Flesh lt Grey w/ lt Grey				1	Still stg Bleached SAA- Dt (w/ calcite & slicks) (trip for Rock Bit 10:45 am)	<	.10	.002	
705													.5		<	.07		
710														Tri-cone				
715													.5		<	.18		
720									Flesh Flesh-org lt Grey				.5	(Brecciated)	<	.016		
725									Flesh-org lt Grey				.5		<	.03/.05		
730													.5		<	.09		
735									Brn-red lt Grey Green				.1		.003	.06		
740													.5		<	.016		
745									Flesh-red lt Grey w/ lt Green						<.5/<	.06		
750															.004	.07		
755															.002	.10	.002	
760														(slight incr. sulf.)	.023/<	.07/<		
765														(w/ clay Gouge)	<	.08		
770														(w/ calc vn)	<	.28		
Fault Zone 775															.002	.08		
780														8/12 8/13	<	.09		
785									lt Green				.1	(w/ ~ 10% contam from Qal)	<	.06		
790															<	.05		
795															<.5/<	.13		
800									lt Green Flesh				.5		.005	.09		

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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DRILL HOLE RL-214

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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.
Fault zone 805									lt Green Flesh Wht lt Grey				.5	SAA- Dt. (w/ slicks & clay) minor Bx	<	<	<.001	
810														(w/ clay) & (Brecciated)	<	.00/.06		
815									lt Green Flesh						<	.06		
820														(trace calc. vn) (w/ ~10% contamination)	.002	.20		
825									lt Green Dk Green				1	(minor Bx & sulf incr.)	.002	.05		
830									& Flesh Wht				1		<	.04		
835															<	.08		
840														(Incr. Bx) (trace Dk Grey Qtz)	.110/.023	.14/.07		
Fault? 845														(major Bx) (Rotate 5 min to clear up contam.) (w/ calc vn) (minor Dk Grey Qtz)	.069	.33		
850														(w/ Qtz/calc cemented Bx. minor Dk Grey Qtz)	.509	.52		
855									lt Green Flesh Wht				.5		.059	.12	.032	
860													.5	(shut down to replace packing 1hr)	.017	.15		
865													1	(Incr. sulf.) [~25% contam] 5 min. rotate to clear cont.	.018	.10		
870													1		.012	.12		
875													1	minor Bx	.010	.10		
880													.5	(Incr. Qtz & minor Dk Grey Qtz) 8/13 8/14	.011	.06		
Fault 885														(w/ slicks)	.009	.07		
890															.016	.14		
895															.012/.010	.10		
900									lt Green Dark Green Wht						.023	.11/.20		

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

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LITHIC LAPILLI TUFF

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DRILL HOLE RL-214

Page 10 of 10

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.
									lt Green wht flesh				1	SAA - Dt (Incr. sulf.)	.008	.05	.005	
905									lt Green wht lt Grey				1	(trace Drk Grey Qtz)	.007	.05		
910													1	(w/ wht clay & calcite; trace Drk Grey Qtz)	.022	.09		
915													.5		.010	.09		
920													.5		.015	.10		
925									Flesh				.5		.022	.10		
930									lt Green lt Grey wht Flesh				1		.019	.24		
935													.5	(w 5% contam) H_2O 75 GPM	.007	.16		
940													.5	(minor contam)	.004	.39		
945															.010/.016	.22		
950															.016	.22	.014	
955															.015	.68		
960														(minor contam)	.063	.25		
965															.013	.14		
970															.015	.17		
975														(slight incr. sulf.)	.0260	.21		
980									Pale Green lt Green						.058	.06/.05		
985														(Strg arg.)	.016	.04		
990									Flesh						.025/.012	<		
995														(slight incr. sulf.)	.003	<		
1000																		
														T.D.				

LAC MINERALS — REJECTS TO KEEP

WORK ORDER #	REJECTS TO KEEP
921081	RL-267
	200-205 → 220-225
921080	RL-263
	285-290 → 330-335
921079	RL-262
	105-110 → 120-125
921078	RL-270C
	40-45 → 50-55
92990	RL-270C
	167-171 → 442-446
92914	RL-270C
	TOSS
92913	RL-270C
	823-828 → 853-858
92810	RL-275
	75-80 → 125-130
	175-180 → 230-235
	325-330 → 395-400

RL214

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

OCT 9 1991

REPORT: R91-12107.4 (COMPLETE)

REFERENCE INFO: RL214 30-35 TO 240-245

CLIENT: IAC MINERALS (USA) INC.
PROJECT: ROSEBUD

SUBMITTED BY: KENNER
DATE PRINTED: 4-OCT-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au DUP Gold Duplicate	1	0.002 OPT		Fire Assay
2	Au Gold	8	0.002 OPT		Fire Assay
3	AG DUP AG DUPLICATE	2	0.02 OPT		Fire Assay
4	Ag Silver	8	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	8	2 -150	8	CRUSH,PULVERIZE -150	8
				DRYING/SAMPLE	8

NOTES: # indicates ERRATIC RESULTS

REMARKS: #ERRATIC RESULTS
K GAMMON

REPORT COPIES TO: MR. TIM KUHL
MR. TIM KUHL

INVOICE TO: MR. TIM KUHL

Rickey L Santos

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

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-12107.4 (COMPLETE)

DATE PRINTED: 4-OCT-91
PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au DUP OPT	Au OPT	AG DUP OPT	Ag OPT
ANALYTICAL BLANK		-	<0.002	-	<0.02
Number of Analyses		-	1	-	1
Mean Value		-	0.0010	-	0.010
Standard Deviation		-	-	-	-
Accepted Value		-	0.002	-	0.02

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

RL214A

Geochemical Lab Report

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11671.4 (COMPLETE)

REFERENCE INFO: RL 214 D-605

CLIENT: TAC MINERALS (USA) INC.
PROJECT: ROSEBUD

SUBMITTED BY: STOEBERL
DATE PRINTED: 30-AUG-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	85	0.002 OPT		Fire Assay
2	Au DUP	Gold Duplicate	10	0.002 OPT		Fire Assay
3	AG DUP	AG DUPLICATE	7	0.02 OPT		Fire Assay
4	Ag	Silver	85	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption

SAMPLE TYPES		NUMBER	SIZE FRACTIONS		NUMBER	SAMPLE PREPARATIONS	NUMBER
Z	OTHER DRILL TYPES	81	2	-150	81	CRUSH,PULVERIZE -150	81
P	PREPARED PULP	4	4	AS REC'D	4	AS RECEIVED, NO SP	4
						OVERWEIGHT/LBS	289

REPORT COPIES TO: MR. TIM KUHL
MR. TIM KUHL
MS. KRISTIN KENNER

INVOICE TO: MR. TIM KUHL

Richard L Ontiveros

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

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 30-AUG-91

REPORT: R91-11671.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
ANALYTICAL BLANK		<0.002	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-
Number of Analyses		3	-	-	-
Mean Value		0.0010	-	-	-
Standard Deviation		0.000000	-	-	-
Accepted Value		0.002	-	-	-
AU ASSAY STD		0.016	-	-	-
Number of Analyses		1	-	-	-
Mean Value		0.0160	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		0.015	-	-	-
GEO TRACE STD1(1989)		-	-	-	0.98
GEO TRACE STD1(1989)		-	-	-	0.99
GEO TRACE STD1(1989)		-	-	-	0.99
Number of Analyses		-	-	-	3
Mean Value		-	-	-	0.985
Standard Deviation		-	-	-	0.0049
Accepted Value		-	-	-	1.05
AG ASSAY		-	-	-	2.98
AG ASSAY		-	-	-	3.06
AG ASSAY		-	-	-	3.15
Number of Analyses		-	-	-	3
Mean Value		-	-	-	3.064
Standard Deviation		-	-	-	0.0842
Accepted Value		-	-	-	3.03
AU ASSAY STD		0.155	-	-	-
Number of Analyses		1	-	-	-
Mean Value		0.1550	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		0.150	-	-	-

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RL 214

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11716.4 (COMPLETE)

REFERENCE INFO: RL 214 605-1000

CLIENT: LAC MINERALS (USA) INC.
PROJECT: ROSEBUD

SUBMITTED BY: STOHBERI
DATE PRINTED: 6-SEP-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	83	0.002 OPT		Fire Assay
2	Au DUP Gold Duplicate	83	0.002 OPT		Fire Assay
3	AG DUP AG DUPLICATE	7	0.02 OPT		Fire Assay
4	Ag Silver	83	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption
5	AU Dup Gold Duplicate	83	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	79	2 -150	79	CRUSH,PULVERIZE -150	46
P PREPARED PULP	4	4 AS REC'D	4	AS RECEIVED, NO SP	2

NOTES: # indicates ERRATIC RESULTS

REMARKS: #ERRATIC RESULTS
K GAMMON

REPORT COPIES TO: MS. CYNDIE WALCK
MR. TIM KUHL
MR. TIM KUHL

INVOICE TO: MR. TIM KUHL

Richard L Ouston

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

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PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
AU ASSAY STD		0.013	-	-	-	-
AU ASSAY STD		0.015	-	-	-	-
Number of Analyses		2	-	-	-	-
Mean Value		0.0140	-	-	-	-
Standard Deviation		0.00141	-	-	-	-
Accepted Value		0.015	-	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-	-
Number of Analyses		2	-	-	-	-
Mean Value		0.0010	-	-	-	-
Standard Deviation		0.00000	-	-	-	-
Accepted Value		0.002	-	-	-	-
GEO TRACE STD1(1989)		-	-	-	0.98	-
GEO TRACE STD1(1989)		-	-	-	1.08	-
GEO TRACE STD1(1989)		-	-	-	0.96	-
Number of Analyses		-	-	-	3	-
Mean Value		-	-	-	1.006	-
Standard Deviation		-	-	-	0.0620	-
Accepted Value		-	-	-	1.05	-
AG ASSAY		-	-	-	2.96	-
AG ASSAY		-	-	-	3.17	-
AG ASSAY		-	-	-	3.17	-
Number of Analyses		-	-	-	3	-
Mean Value		-	-	-	3.101	-
Standard Deviation		-	-	-	0.1258	-
Accepted Value		-	-	-	3.03	-

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REPORT: R91-11716.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
Number of Analyses		-	-	-	-	-
Mean Value		-	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		0.150	-	-	-	-

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 30-AUG-91

REPORT: R91-11671.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
Z2 RL214 5-10		<0.002			<0.02
Z2 RL214 15-20		<0.002	<0.002	0.03	<0.02
Z2 RL214 25-30		0.005			0.06
Z2 RL214 35-40		0.012			0.06
Z2 RL214 45-50		0.007			0.08
Z2 RL214 55-60		<0.002			0.05
Z2 RL214 65-70		0.038			0.11
Z2 RL214 75-80		0.006			0.15
Z2 RL214 85-90		0.005			0.11
Z2 RL214 95-100		<0.002			<0.02
Z2 RL214 105-110		<0.002			<0.02
Z2 RL214 115-120		<0.002	<0.002		<0.02
Z2 RL214 125-130		<0.002			<0.02
Z2 RL214 135-140		0.005			<0.02
Z2 RL214 145-150		0.003			<0.02
Z2 RL214 155-160		<0.002			<0.02
Z2 RL214 165-170		<0.002	<0.002	0.04	0.03
Z2 RL214 175-180		0.009			0.05
Z2 RL214 185-190		<0.002			<0.02
Z2 RL214 195-200		0.011		0.30	0.23
P4 BA 121		0.058			0.08
Z2 RL214 205-210		<0.002			0.03
Z2 RL214 215-220		0.003			0.07
Z2 RL214 225-230		<0.002	<0.002		<0.02
Z2 RL214 235-240		<0.002			0.03
Z2 RL214 245-250		<0.002			0.04
Z2 RL214 255-260		0.003			0.04
Z2 RL214 265-270		<0.002			<0.02
Z2 RL214 275-280		<0.002			<0.02
Z2 RL214 285-290		<0.002			<0.02
Z2 RL214 295-300		0.003			0.03
Z2 RL214 305-310		0.003			0.14
Z2 RL214 315-320		0.003			0.06
Z2 RL214 325-330		<0.002	<0.002		<0.02
Z2 RL214 335-340		0.044			0.10
Z2 RL214 345-350		<0.002			0.03
Z2 RL214 355-360		0.007			0.64
Z2 RL214 365-370		<0.002			<0.02
Z2 RL214 375-380		<0.002		0.14	0.15
Z2 RL214 385-390		0.007			0.15

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
Z2 RL214 395-400		<0.002			0.05
P4 BA 122		0.033			0.26
Z2 RL214 400-405		<0.002			<0.02
Z2 RL214 405-410		<0.002			<0.02
Z2 RL214 410-415		<0.002	<0.002		<0.02
Z2 RL214 415-420		<0.002			0.03
Z2 RL214 420-425		<0.002			<0.02
Z2 RL214 425-430		<0.002			<0.02
Z2 RL214 430-435		<0.002			<0.02
Z2 RL214 435-440		<0.002			<0.02
Z2 RL214 440-445		<0.002			0.12
Z2 RL214 445-450		<0.002			0.06
Z2 RL214 450-455		0.018			0.81
Z2 RL214 455-460		0.026			0.17
Z2 RL214 460-465		0.016	0.019		0.04
Z2 RL214 465-470		0.013		0.04	0.04
Z2 RL214 470-475		0.004			0.04
Z2 RL214 475-480		0.003			0.04
Z2 RL214 480-485		0.007			0.04
Z2 RL214 485-490		<0.002			0.03
Z2 RL214 490-495		0.009			0.03
Z2 RL214 495-500		0.004			0.04
P4 BA 123		<0.002			<0.02
Z2 RL214 500-505		<0.002	<0.002	0.03	0.03
Z2 RL214 505-510		0.003			0.04
Z2 RL214 510-515		<0.002			<0.02
Z2 RL214 515-520		<0.002	<0.002		0.03
Z2 RL214 520-525		<0.002			0.03
Z2 RL214 525-530		<0.002			<0.02
Z2 RL214 530-535		0.003			0.05
Z2 RL214 535-540		<0.002			0.04
Z2 RL214 540-545		<0.002			0.04
Z2 RL214 545-550		<0.002			0.05
Z2 RL214 550-555		0.047			0.09
Z2 RL214 555-560		<0.002		<0.02	<0.02
Z2 RL214 560-565		0.007			<0.02
Z2 RL214 565-570		<0.002	<0.002		<0.02
Z2 RL214 570-575		<0.002			<0.02
Z2 RL214 575-580		<0.002			<0.02
Z2 RL214 580-585		0.005			0.04

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BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 4-OCT-91

REPORT: R91-12107.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au DUP OPT	Au OPT	AG DUP OPT	Ag OPT
Z2 RL-214 30-35			0.005		0.07
Z2 RL-214 40-45			0.013		0.09
Z2 RL-214 60-65			0.004		0.06
Z2 RL-214 70-75			0.003		0.07
Z2 RL-214 190-195			0.039	2.51	2.12#
Z2 RL-214 200-205			<0.002		0.05
Z2 RL-214 230-235			<0.002		0.04
Z2 RL-214 240-245		0.004	0.004	0.05	0.04

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Geochemical Lab Report

DATE PRINTED: 30-AUG-91

REPORT: R91-11671.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
Z2 RL214 585-590		0.021			0.04						
Z2 RL214 590-595		0.004			0.03						
Z2 RL214 595-600		<0.002			0.03						
P4 BA 124		0.036			0.25						
Z2 RL214 600-605		<0.002			<0.02						

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Geochemical Lab Report

DATE PRINTED: 6-SEP-91

REPORT: R91-11716.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
Z2 RL214 605 610		<0.002			0.05	
Z2 RL214 610 615		<0.002			0.04	
Z2 RL214 615 620		<0.002			0.04	
Z2 RL214 620 625		<0.002			0.03	
Z2 RL214 625 630		<0.002			0.10	
Z2 RL214 630 635		<0.002			0.10	
Z2 RL214 635 640		<0.002	<0.002	0.05	0.06	
Z2 RL214 640 645		<0.002			0.04	
Z2 RL214 645 650		0.015			1.66	
Z2 RL214 650 655		<0.002			0.08	
Z2 RL214 655 660		0.002			0.10	
Z2 RL214 660 665		0.009			0.12	
Z2 RL214 665 670		0.003			0.11	
Z2 RL214 670 675		0.004			0.15	
Z2 RL214 675 680		0.002	<0.002	0.12	0.11	
Z2 RL214 680 685		<0.002			0.09	
Z2 RL214 685 690		0.003	0.002		0.10	
Z2 RL214 690 695		0.003			0.08	
Z2 RL214 695 700		<0.002			0.14	
Z2 RL214 700 705		<0.002			0.10	
P4 BA 141		0.027	0.030		0.24	
Z2 RL214 705 710		<0.002			0.07	
Z2 RL214 710 715		<0.002			0.18	
Z2 RL214 715 720		<0.002			0.06	
Z2 RL214 720 725		<0.002		0.05	0.03	
Z2 RL214 725 730		<0.002			0.09	
Z2 RL214 730 735		0.003			0.06	
Z2 RL214 735 740		<0.002			0.06	
Z2 RL214 740 745		<0.002	<0.002		0.06	
Z2 RL214 745 750		0.004			0.07	
Z2 RL214 750 755		0.002			0.10	
Z2 RL214 755 760		0.023#	<0.002		0.07	<0.002
Z2 RL214 760 765		<0.002			0.08	
Z2 RL214 765 770		<0.002			0.28	
Z2 RL214 770 775		0.002			0.08	
Z2 RL214 775 780		<0.002			0.09	
Z2 RL214 780 785		<0.002			0.06	
Z2 RL214 785 790		<0.002			0.05	
Z2 RL214 790 795		<0.002	<0.002		0.13	
Z2 RL214 795 800		0.005			0.09	

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REPORT: R91-11716.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
Z2 RL214 800 805		<0.002			<0.02	
P4 BA 142		<0.002			<0.02	
Z2 RL214 805 810		<0.002		0.06	0.06	
Z2 RL214 810 815		<0.002			0.06	
Z2 RL214 815 820		0.002			0.20	
Z2 RL214 820 825		0.002			0.05	
Z2 RL214 825 830		<0.002			0.04	
Z2 RL214 830 835		<0.002			0.08	
Z2 RL214 835 840		0.110#	0.023	0.07	0.14	
Z2 RL214 840 845		0.369			0.33	
Z2 RL214 845 850		0.509			0.52	
Z2 RL214 850 855		0.059			0.12	
Z2 RL214 855 860		0.017			0.15	
Z2 RL214 860 865		0.018			0.10	
Z2 RL214 865 870		0.012			0.12	
Z2 RL214 870 875		0.010			0.10	
Z2 RL214 875 880		0.011			0.06	
Z2 RL214 880 885		0.009			0.07	
Z2 RL214 885 890		0.016			0.14	
Z2 RL214 890 895		0.012	0.010		0.10	
Z2 RL214 895 900		0.023		0.11	0.20	
Z2 RL214 900 905		0.008			0.05	
P4 BA 143		0.035			0.15	
Z2 RL214 905 910		0.007			0.05	
Z2 RL214 910 915		0.022			0.09	
Z2 RL214 915 920		0.010			0.09	
Z2 RL214 920 925		0.015			0.10	
Z2 RL214 925 930		0.022			0.10	
Z2 RL214 930 935		0.019			0.24	
Z2 RL214 935 940		0.007			0.16	
Z2 RL214 940 945		0.004			0.39	
Z2 RL214 945 950		0.010	0.016		0.22	
Z2 RL214 950 955		0.016			0.22	
Z2 RL214 955 960		0.015			0.68	
Z2 RL214 960 965		0.063			0.25	
Z2 RL214 965 970		0.013			0.14	
Z2 RL214 970 975		0.015			0.17	
Z2 RL214 975 980		0.026			0.21	
Z2 RL214 980 985		0.058		0.06	0.05	
Z2 RL214 985 990		0.016			0.04	

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Geochemical Lab Report

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REPORT: R91-11716.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
Z2 RL214 990 995		0.025	0.012		<0.02	
Z2 RL214 995 1000		0.003			<0.02	
P4 BA 144		<0.002			<0.02	

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
RL214 635 640		<0.002	<0.002	0.05	0.06	
Duplicate		<0.002			0.05	
RL214 675 680		0.002	<0.002	0.12	0.11	
Prep Duplicate		<0.002			0.12	
RL214 685 690		0.003	0.002		0.10	
Duplicate		0.002				
RL214 720 725		<0.002		0.05	0.03	
Duplicate					0.05	
RL214 740 745		<0.002	<0.002		0.06	
Duplicate		<0.002				
RL214 790 795		<0.002	<0.002		0.13	
Duplicate		<0.002				
RL214 805 810		<0.002		0.06	0.06	
Duplicate					0.06	
RL214 835 840		0.110#	0.023	0.07	0.14	
Prep Duplicate		0.023			0.07	
RL214 840 845		0.369			0.33	
Duplicate		0.353				
RL214 890 895		0.012	0.010		0.10	
Duplicate		0.010			0.11	
RL214 945 950		0.010	0.016		0.22	
Duplicate		0.016				
RL214 980 985		0.058		0.06	0.05	
Duplicate					0.06	
RL214 990 995		0.025	0.012		<0.02	
Duplicate		0.012				

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REPORT: R91-11671.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
RL214 15-20		<0.002	<0.002	0.03	<0.02						
Duplicate		<0.002			0.03						
RL214 115-120		<0.002	<0.002		<0.02						
Duplicate		<0.002									
RL214 165-170		<0.002	<0.002	0.04	0.03						
Prep Duplicate		<0.002			0.04						
RL214 195-200		0.011		0.30	0.23						
Duplicate					0.30						
RL214 225-230		<0.002	<0.002		<0.02						
Duplicate		<0.002									
RL214 325-330		<0.002	<0.002		<0.02						
Duplicate		<0.002									
RL214 375-380		<0.002		0.14	0.15						
Duplicate					0.14						
RL214 410-415		<0.002	<0.002		<0.02						
Duplicate		<0.002									
RL214 460-465		0.016	0.019		0.04						
Duplicate		0.019									
RL214 465-470		0.013		0.04	0.04						
Duplicate					0.04						
RL214 500-505		<0.002	<0.002	0.03	0.03						
Prep Duplicate		<0.002			0.03						
RL214 515-520		<0.002	<0.002		0.03						
Duplicate		<0.002									
RL214 555-560		<0.002		<0.02	<0.02						
Duplicate					<0.02						
RL214 565-570		<0.002	<0.002		<0.02						
Duplicate		<0.002									

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 4-OCT-91

REPORT: R91-12107.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au DUP OPT	Au OPT	AG DUP OPT	Ag OPT
RL-214 240-245		0.004	0.004	0.05	0.04
Duplicate			0.004		0.05

Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 West Glendale Ave., Suite 7, Sparks,
Nevada, U.S.A. 89431
PHONE: 702-356-5395

To: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

Project : ROSEBUD
Comments:

Certificate Date: 03-SEP-91
Invoice No. : I9120608
P.O. Number :

CERTIFICATE OF ANALYSIS A9120608

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	
RL-214 650-655	208	294	0.002	
RL-214 700-705	208	294	0.002	
RL-214 750-755	208	294	0.002	
RL-214 800-805	208	294	< 0.001	
RL-214 850-855	208	294	0.032	Eg.
RL-214 900-905	208	294	0.005	
RL-214 950-955	208	294	0.014	
RL-224 045-050	208	294	0.003	
RL-224 095-100	208	294	0.002	Dreamland.
RL-224 145-150	208	294	0.001	
RL-224 195-200	208	294	0.001	
RL-224 245-250	208	294	0.001	
RL-224 295-300	208	294	0.002	
RL-224 345-350	208	294	0.001	

CERTIFICATION: [signature]

Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 West Glendale Ave., Suite 7, Sparks,
Nevada, U.S.A. 89431
PHONE: 702-356-5395

To: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

Project : ROSEBUD
Comments: ATTN: TIM KUHL

Certificate Date: 30-AUG-91
Invoice No. : I9120387
P.O. Number :

CERTIFICATE OF ANALYSIS A9120387

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	
AL 434 045-050	208	294	< 0.001	224 ? HO
AL 434 095-100	208	294	0.020	
AL 434 145-150	208	294	0.028	
AL 434 195-200	208	294	0.003	
AL 434 245-250	208	294	0.003	
AL 434 295-300	208	294	0.019	
AL 450 145-150	208	294	0.007	
AL 450 195-200	208	294	0.011	
AL 450 295-300	208	294	0.002	
RL 190 045-050	208	294	0.007	
RL 190 095-100	208	294	0.002	Eg
RL 190 145-150	208	294	0.005	
RL 190 195-200	208	294	0.009	
RL 190 245-250	208	294	0.002	
RL 190 295-300	208	294	0.012	
RL 190 345-350	208	294	0.005	Eg
RL 203C 115-120	208	294	0.001	
RL 203C 165-170	208	294	0.002	
RL 205C 075-080	208	294	0.001	
RL 205C 125-130	208	294	< 0.001	
RL 205C 175-180	208	294	0.003	Eg
RL 205C 225-230	208	294	0.007	
RL 205C 275-280	208	294	0.064	
RL 205C 325-330	208	294	0.008	
RL 205C 375-380	208	294	0.043	
RL 214 095-100	208	294	< 0.001	Eg
RL 214 195-200	208	294	0.007	
RL 214 295-300	208	294	0.002	
RL 214 395-400	208	294	< 0.001	
RL 214 445-450	208	294	0.004	
RL 214 495-500	208	294	0.003	LAC
RL 214 545-550	208	294	0.001	
RL 214 595-600	208	294	< 0.001	
RL 221 750-755	208	294	0.086	
RL 221 800-805	208	294	0.005	
RL 221 850-855	208	294	0.003	
RL 221 900-905	208	294	0.003	

CERTIFICATION: Kendra N Adam