Drill Log RL-221
Rosebud

4010 0047

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-221 TOTAL DEPTH 934 LOGGED BY MCW

Date started 7-31-91

Date completed 8-8-91

Initial bearing Vertical

Initial inclination

Elevation 5281.3

Collar coordinates:

N 2204090.0

E 482550.7

Contractor: Johnson

Drill Type: Track RCD

Hole Size: 5 1/4

Drilling Conditions:

Footage: Wet / Dry 934 / 180

Comments: Set Casing 7:15 to

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-221

Page 1 of ____

LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
	Qal	x											Ox	Set Casing 7:15 Qal	.003	.19		
Ct 05		x							Yellow Orng. Grn					Fine Grained Tuff	<	.29		
10		x													<	.12		
15		x													<	.07		
20		x												Strong Ox	.003	.07		
25		x							Yell Buff Green					Mod Ox	<	.10		
30		x							Yell Grn						<	.04		
35		x													.003	.05		
40		~							Green tr Tan					wk Ox fine Grained Tuff w/ phenos	<<<	.05 .03		
45		~													<	<		
50		~							Gy Grn Tan					Mod Ox		<		
55		~							Yell Orange Gy Grn					TR Ox		.03		
60									Tan Grn					wk Ox Ox		.13		
65									Gy Grn				0.5	Reduction Zone		.07		
70		~							Md Gy Buf Grn							.05		
75		~											TR			.08		
80		~							Med Grn TR Gy							<		
85									Med-dk Green TR Gy					TR CA				
90		~							Gray-Green				0	Micro Grxt	<<<			
95		~							Grayish Green						<			
100																		

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DRILL HOLE RL-221

Page 2 of ____

LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
									Gy Grn				0.5	Red. Zone TR Calcite Fine Grnd Tuff w/ Phenos	<	<		
105									Gy Grn									
110									Pur Grn to Gy Grn				0					
115																		
120													0.5		</<	.06/.05		
125															<	</.03		
130														TR Barite TR wH Cly		.06		
135																.03		
140																.05		
145															<./<	.03		
150									Dk Pur Grn to Gy Grn						.003	.06		
155														TR wH Cly	<	<		
160									Gry Grn					TR CaCO3				
165													0.5					
170																		
175									Gy Green Med Gy					Start Wet Drilling (9:45 10:00)		.03		
Wet 180									M-Dk Green M Gy				0			<		
185																<		
190													0.5		<./<	<		
195									Gy Grn TR Dk Gy					TR Micro Bxt	<	<		
200																		

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DRILL HOLE RL-221

Page 3 of ____

LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
		N N							GY GRN				1	Red Zone Micro Bxt Fn Grn Tuff	<	<		
205		N N X											.5		<	<		
210		N N X											1		.004	.10/.10		
215		N N X X											1		.005	.09		
220		N N N X											0		<1/<	.06/<		
225		N N N X X							Grey Grn w/ Gry				1		.006	.09		
230		N N X X X											.5	Large Phenos or Bxt Abnt Qtz VAS	.004	.08		
235		N N X X X X											1		.003	.07		
240		N N N X													<1/<	.04		
245		N N N X											1.5		<	.06		
250		N N X X X											2.0	Poss fault Qtz VAS	.008	.08		
255		N X X X X											2.0	↓	.008	.07		
260		N X N X											1.5		<	.08		
265		N X N N N N N X											1		<	.04		
270		N N N N N N N N												Abnt Clay		<		
275		N N N N N N N N N N											.5	Sample Pred Clay		<		
280		N N N N N											1	Abnt Clay		<		
285		N N N N												Decreasing Clay		<		
290		N N N N											.5	TR Ox	<1/<	<		
295		N N N N											1		<	<		
300														11:30 Rig Maint				

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DRILL HOLE RL-221

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LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
									Gray Grn w/ Gray				.5	Red. Zone Fn Grain Tuff	<	<		
305															<	<		
310																<		
315													1			.06		
320													.5			<		
325													1	Bxt zone				
330													1					
335									Gy Grn w/ Tr Red				1					
340									Gy Grn Green Gy				1.5		4/<	4/<		
345									Gy Grn Med Gy				1	Qtz Py Veins	.003	.06		
350													1.5	Micro Bxt	.004/.004	.07		
355													1		<	<		
360													2	Bxt w/ Qtz	.003	.03		
365													1		<	.04		
370									Gy Grn w/ Peach				1.0		.018	<		
375									Gy Grn w/ Red Gray				1	Bxt Qtz	<	.03		
380									Gy Green Tan Grn				1		<	<		
385													1			4/<		
390									Green w/ To Red Gy				2.0			<		
395									LT Olive Grn				1.5	Looks Like Bud		<		
400																		

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DRILL HOLE RL-22
Page 5 of ____
LOGGED BY MCW

	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 WHGrn w/TRMCY				2.0	Red zone looks like Bad Fh Grain Tuff	<	<		
405													1.5			<		
410													1.0			<		
415													.5			.04		
420									LT WHGrn w/ Med Grn				1.5	Bud on Chocolate?		<		
425									for Grn w/ Med Gy				2.0					
430													1.0					
435									for Grn LT WHGrn				1.5					
440													1.0					
445													2.0					
450									for Grn Tan Grn				.5		<<<			
455													1.0		<			
460									WHGrn w/ for. Grn				1.		<			
465													.5		.012			
470															.048	.03 .04		
475									for Green w/ WHGrn				1.0		.021	.04		
480													1.0		.003	<		
485									WHGrn				1.5		.041	<		
490									for Green WHGrn				1.0	Abnt Qtz Veins	.004	.04		
495													.5		.011	<		
500																		

ADH-27

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

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DRILL HOLE RL-221

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LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
									WH Grn w/ For Grn				.5	Red. Zone Fn Grain Tuff	<1/<	<		
505									WH Grn w/ LtGY						<	<		
510															.004	.08		
515													1.5	Qtz Py Veining	.003	.04		
520													1.0		.016	.03		
525									WH Grn to Mod Grn						.005	.08		
530													1.5		.005	.05		
535															.009	.04		
540									WH Green to For. Grn				1.0		.006	.04		
545													1.5		<	.03		
550														Arg Phenos Chocolate or TMB?	<1/<	.03		
555									WH Grn, For Grn, Tan GY				1.0	Qtz Veining	.0448 .032 .021	.05		
560									Tan Gy w/ TR Sage Grn						<	.03		
565														Tra Milky Qtz	.013	.04		
570															.015	.06		
575													1.5		.003	.03		
580													.5		.013	.04		
585															.009	.03		
590									Tan GY, Brn w/ For Grn				1.0	Abnt Milky Qtz	.009	.13		
595															.004	.12		
600																		

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LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
									For Grn, Olive				1.0	Red, Zone Vein Brxt (60 Cal/Min) Fn Grain Tuff	.004 / .005	.12		
7-31-91 / 8-1-91 605									For Grn, Olive Grn, Tan Gray				1.5	Abnt Milky Qtz (8:05 AM Begin)	.051 / .038	.37		
610													2.0		.007	.14		
615									For Grn to WH Grn w/ Gry Grn				1.0		.009 / .003 / .004	.06 / .08		
620													1.5		.004	.05		
625									For Grn Tan Gry				2.5	Qtz Veins Clr, WH LtGY Fracture Zone	.005	.18		
fault Zone 630													1.5		.007	.08		
635									For Grn WH					Qtz Vns Clr WH	.021	.26		
Veins ↓ 640													.5	(10:10 Booster - 10:25)	.007	.19 / .24		
645									For Grn - Pale Grn w/ WH				1.5		.006	.28		
650													1	Large Chunks of Qtz w/ WH Cly	.013	.47		
655															.008 / .030	.93		
660													1.0		.010	.14		
665															.009	.68		
670													1.5		.004	.12		
675													1.0	micro bxt ?	.005	.17		
680									For Grn Olive Grn w/ WH				1		.010	.33		
685									Buff Grn w/ WH				.5		.007	.30		
690									Buff Grn to Gry Grn				1		.020	.25		
695													1		.007	.25		
700																		

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DRILL HOLE RL-221

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LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
									MGrn to Olive w/ lt GrGrn				1	Red Zone (8:1.91 12:42) fn Grnd Tuff	.026	.47		
705									GyGrn Olive w/ Orange Brn					(8-6-91, 12:20) Stng Qtz Veining	.004	.59/.61		
710									GyGrn w/ Lt Grn				2	Pos struck Controlled Chl Alt Qtz Veining	.004	.26/.24		
715									GyGrn				1		.004	.27/.24		
720									GyGrn w/ Gy + Wh				1.5	8-7-91 Begin fault zone Stng Qtz	.013/.017	.19/.20		
725									Olive Grn GyGrn w/ OlGy + Wh				1		.012/.016	.86/.84		
730									Sage Grn to MGy				1.0		.019	1.35/1.42		
735									Tan Gy to MGy				1		.016	.39/.37		
740									Sage Grn Red Tan					End fault Zone Stq Qtz Vng Fine Grained Dozier Tuff	.020	.12		
745									Red Tan w/ Wh Med Gy						.064	.16		
750									LtGy MGy Red TanGy				1.5		.150	.44		
755									LtGy w/ Red Tan Gy				2	Micro Bxt	.063	.11		
760									LtGy-Wh GyGrn Red				.5	TR Micro Bxt	.035	.15		
765															.050	.13		
770									LtGy-Wh GyGrn Buff						.072	.14		
775															.014/.019	.15		
780									GyGrn Tan					Micro Bxt	.015	.14		
785														TR Micro Bxt	.014	.10		
790													1	Micro Bxt	.015	.11		
795													.5	Increasing Clay	.012	.11		
800																		

fault zone?

Dozier Tuff

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DRILL HOLE RL-221

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LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
									Tan Tan Gy, Gy Grn				1	Red Zone Qtz Veined Micro Bxt Dozier Tuff	.009	.11		
805													.5	TR WH Cly	.008	.11		
810									Gy Grn to Tan				1		.020	.15/.17		
815									Gy Grn				1		.056	.36		
820									Gy Grn + to Tan				1.5		.012	1.05		
825													1		.024	.29		
830													1		.024/.023	.17		
835									Sage Green Gy Green				.5	WH Qtz	.007	.10		
840									Sage Green Gy Tan + Red Tan				1.5		.035	.15		
845									Sg Grn Gy Grn				1.0	WH Clay	.013	.10		
850													1		.004	.13		
855													1.5	Qtz PY Vns Micro Bxt	.010	6.47		
860							?						1.0	WH Qtz + Green Contamination Qtz Micro Bxt	.004	.51		
865									Lt Gy Grn Gy						.011	.13		
870															.005	.16		
875													.5		.011	.10		
880														~~TR Micro Bxt~~ Contamination	~~.025~~ .003/.007	.11		
885									Lt Gy Tr Tan Gy				TR		.003	.16		
890									Lt Gy Tr Tan Brn						.008	.27		
895									Sage Green Lt Gy						<	.07		
900																		

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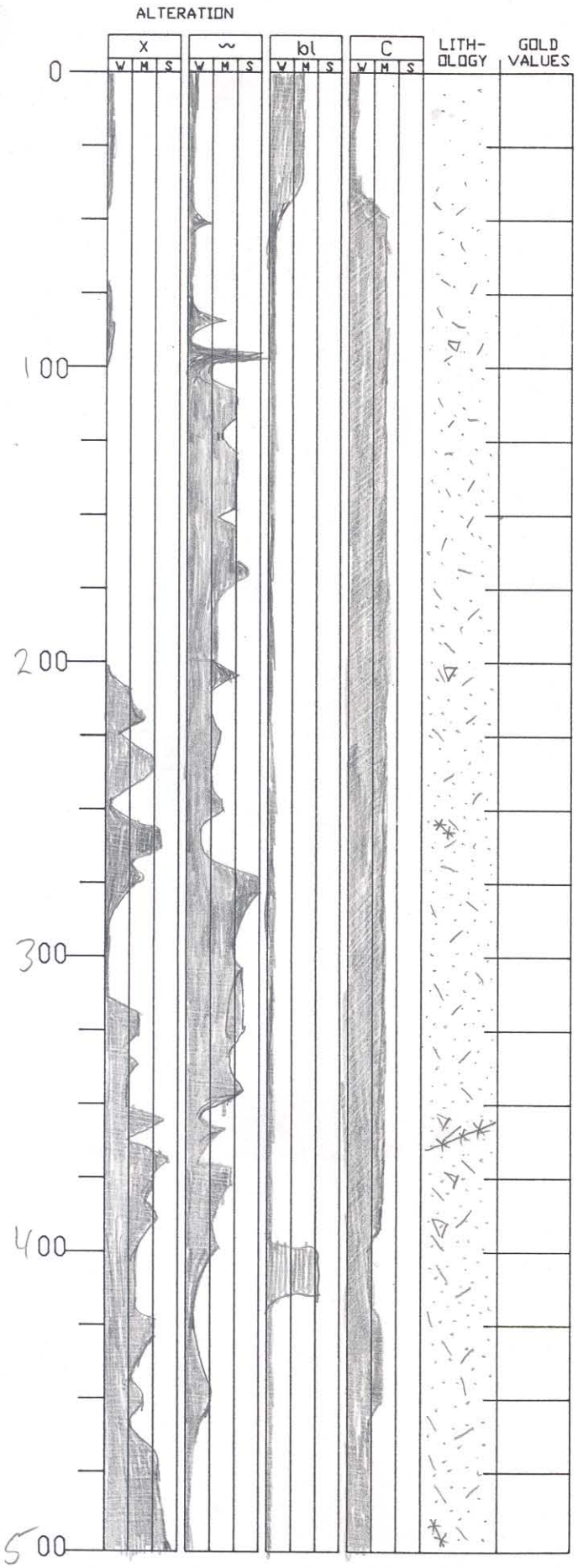
LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
									Sage Green				TR	Red Zone (Contamination) Dozier Tuff	<	.16/.13		
905									Sage Grn Gy Grn						.003	.15		
910													.5		.006	.42		
915									Sage Grn Gy Grn w/ Tan				1.0	Fault Zone w/ Gouge Qtz filled Micro Bxt	.013	.83		
920									LT Gy Sage Grn				1.5	(Contamination)	.007	.45		
925														Dk Gy Qtz Micro Bxt	<	.05		
930													1.0	Bit Destroyed	.003/.004	.13		
935																		
940														TD 934 3:00PM 8-8-91 Final Water flow Rate 37.5gal/min				
945																		
950																		
955																		
960																		
965																		
970																		
975																		
980																		
985																		
990																		
995																		
1000																		

GRAPHIC LOG SUMMERY

DATE 7-31 to 8-8-91

PROJECT ROSEBUD HOLE NO. RL-221 T.D. 934 PAGE 1 OF 2



DESCRIPTION

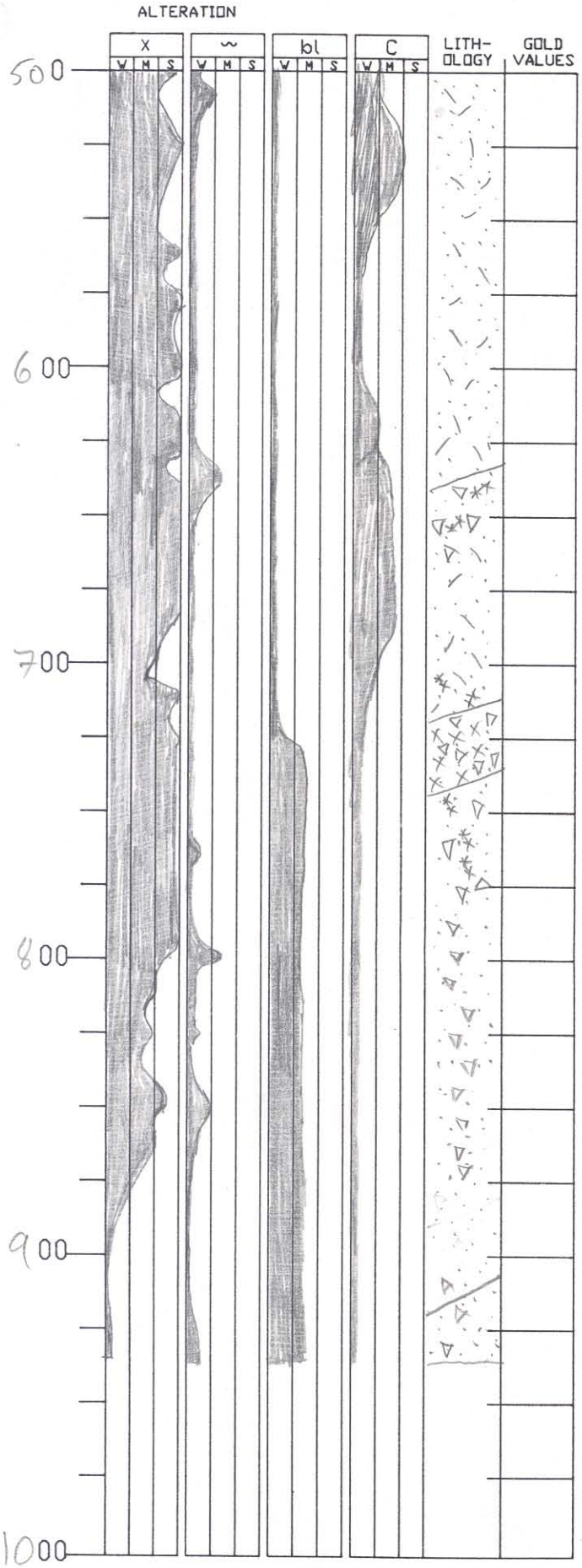
X-silicification ~-argillic bl-bleaching C-celadonite

COLOR Decreasing Tan Yell Increasing Gray	0-65 Decr Qx 0-205 wk-0 silica Alt 0-75 wk Arg Alt Mod Celadonite 50' to 710' Mod Bleaching 0-45, 400-420 725-TD Wk Bleaching 45-400, 420-725
	0-295 Chocolate wk Silicic to 205' Mod to Strg Sil to 685' wk to TD, wk arg 0-95, 460 to TD mod to Strg Arg 95 to 460
LT-MGRN Lt Green	65' Redox Zone — 65-245 wk Sulfide Zone (Py) Fault Zones 360-370, 625-635, and 915-920 SRF 715-737
	90-95' Micro Bxt 85-130 TR Calcite Micro Bxt 90-95, 195-210, 360-385, 635-655, 715 to 885, and 915-920
	95-175 Mod to strong Arg Alt
	130-140 TR Barite
	175-270 Moderate Arg Alt
	-180 Start wet Drilling 195-210 Micro Bxt
	210-280 Mod to Strg Silica Alt
	230-235 Abnt Qtz Veins 250-260 Sub Parallel fault
	245-265 Mod Sulfide Zone (Py) 265-340 Wk Sulfid Zone (Py) 270-285 Strong Clay Alt
	285-330 Mod Clay Alt 280-315 Wk Silica Alt
	315-460 Mod Silica Alt
	330-410 Mod to Wk Clay Alt 340-450 Mod Sulfide Zone (Py) 345-350 Qtz Py Veins
	360-370 Fault Zone Strong Calcedonic Qtz Zone 360-385 Bxt w/ Qtz
LT Olive Grn	395-423 Possible Wispy Bud
MGR Green	395'-4[illegible] Possible Bud or Chocolate 405-630' Wk Clay Alt
	450-605 Wk Sulfide Zone (Py)
LT GR Grn	460-865 Strg Qtz Alt
	490- Abnt Qtz Veins

GRAPHIC LOG SUMMERY

DATE 7-31 to 8-8-91

PROJECT ROSEBUD HOLE NO. RL-221 T.D. 934 PAGE 2 OF 2



DESCRIPTION

X-silicification ~-argillic bl-bleaching C-celadonite

COLOR LtGrn For Qtz	515-535 Qtz Py Veining
Tan W/ For Grn	555 Chocolate or Tan B to 715
	605-660 mod Sulfide Zone (Py)
For Grn, Grn Wh to Clear	625-635 Fault Zone 630-645 Mod Clay Alt 645-795 Wk Clay Alt 635-655 Breccia strng Qtz Veining Zone 660-710 wk Sulfide Zone (Py)
	710-760 wk-Mod Sulfide Zone (Py) 705-800 Strg Qtz Veining
for Grn MGY	715-737 South ridge Fault Zone
Tan GY	737-934 Dozier Tuff
Tan to Gray Green	755-885 Micro Bxt 760-934 Wk Sulfide Zone
	795-800 Mod Clay Alt 800-934 Wk Clay Alt 800-855 Qtz Veining
	855-860 Qtz Py Veins 865-934 Weak Silicic Alteration 860-880 Qtz Veins
	915-920 Fault zone W/Micro Bxt zone
	TD-934 Bit Destroyed

RL 221

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: R91-11704.4 (COMPLETE)

REFERENCE INFO: RL 221 705-935

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

SUBMITTED BY: STOEBERL
DATE PRINTED: 27-AUG-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	48	0.002 OPT		Fire Assay
2	Au DUP Gold Duplicate	6	0.002 OPT		Fire Assay
3	AG DUP AG DUPLICATE	9	0.02 OPT		Fire Assay
4	Ag Silver	48	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption
5	AU Dup Gold Duplicate	1	0.002 OPT		Fire Assay

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

NOTES: # indicates ERRATIC RESULTS

REMARKS: #ERRATIC RESULT
K GAMMON

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

INVOICE TO: MR. TIM KUHL

Rickey L Ontos

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: 27-AUG-91

REPORT: R91-11704.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
AU ASSAY STD		0.152	-	-	-	-
Number of Analyses		1	-	-	-	-
Mean Value		0.1520	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		0.150	-	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-	-
Number of Analyses		1	-	-	-	-
Mean Value		0.0010	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		0.002	-	-	-	-
GEO TRACE STD1(1989)		-	-	-	1.00	-
GEO TRACE STD1(1989)		-	-	-	1.05	-
Number of Analyses		-	-	-	2	-
Mean Value		-	-	-	1.027	-
Standard Deviation		-	-	-	0.0312	-
Accepted Value		-	-	-	1.05	-
AG ASSAY		-	-	-	3.20	-
AG ASSAY		-	-	-	3.07	-
Number of Analyses		-	-	-	2	-
Mean Value		-	-	-	3.136	-
Standard Deviation		-	-	-	0.0966	-
Accepted Value		-	-	-	3.03	-
AU PULP STD		0.162	-	-	-	-
Number of Analyses		1	-	-	-	-
Mean Value		0.1620	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		0.184	-	-	-	-

RL 221

Bondar-Clegg, Inc.
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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

AUG 21 1991

REPORT: R91-11558.4 (COMPLETE)

REFERENCE INFO: RL221 0-705

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

SUBMITTED BY: STOEBERL
DATE PRINTED: 19-AUG-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	148	0.002 OPT		Fire Assay
2	Au DUP	Gold Duplicate	20	0.002 OPT		Fire Assay
3	AU Dup	Gold Duplicate	4	0.002 OPT		Fire Assay
4	Ag	Silver	148	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption
5	AG DUP	AG DUPLICATE	10	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	141	2 -150	141	CRUSH,PULVERIZE -150	141
P PREPARED PULP	7	4 AS REC'D	7	AS RECEIVED, NO SP	7
				OVERWEIGHT/LBS	60
				EXCESS WETNESS/SAMP	105

NOTES: # indicates ERRATIC RESULTS

REMARKS: THE FOLLOWING WAS LISTED AS INCLUDED BUT WAS
~~MISSING: RL 221 320-325.~~
THERE WERE TWO SAMPLES LABELED RL221 220-225,
ONE WAS GIVEN THE SUFFIX DUPL. jaj

#ERRATIC RESULTS OBSERVED
~~K GAMMON~~

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

INVOICE TO: MR. TIM KUHL

Rickey L Dunlap

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625 Spice Island Dr.
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AU ASSAY STD		0.015	-	-	-	-
AU ASSAY STD		0.015	-	-	-	-
Number of Analyses		2	-	-	-	-
Mean Value		0.0150	-	-	-	-
Standard Deviation		0.000000	-	-	-	-
Accepted Value		0.015	-	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-	-
Number of Analyses		4	-	-	-	-
Mean Value		0.0010	-	-	-	-
Standard Deviation		0.000000	-	-	-	-
Accepted Value		0.002	-	-	-	-
GEO TRACE STD1(1989)		-	-	-	0.95	-
GEO TRACE STD1(1989)		-	-	-	0.95	-
GEO TRACE STD1(1989)		-	-	-	1.07	-
GEO TRACE STD1(1989)		-	-	-	0.99	-
Number of Analyses		-	-	-	4	-
Mean Value		-	-	-	0.989	-
Standard Deviation		-	-	-	0.0540	-
Accepted Value		-	-	-	1.05	-
AG ASSAY		-	-	-	2.95	-
AG ASSAY		-	-	-	3.12	-
AG ASSAY		-	-	-	2.89	-
AG ASSAY		-	-	-	3.00	-
Number of Analyses		-	-	-	4	-
Mean Value		-	-	-	2.991	-
Standard Deviation		-	-	-	0.0969	-
Accepted Value		-	-	-	3.03	-

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STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT
AU ASSAY STD		0.153	-	-	-	-
AU ASSAY STD		0.161	-	-	-	-
Number of Analyses		2	-	-	-	-
Mean Value		0.1570	-	-	-	-
Standard Deviation		0.00566	-	-	-	-
Accepted Value		0.150	-	-	-	-

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT
Z2 RL221 0 5		0.003			0.19	
Z2 RL221 5 10		<0.002			0.29	
Z2 RL221 10 15		<0.002			0.12	
Z2 RL221 15 20		<0.002			0.07	
Z2 RL221 20 25		0.003			0.07	
Z2 RL221 25 30		<0.002			0.10	
Z2 RL221 30 35		<0.002			0.06	
Z2 RL221 35 40		0.003			0.05	
Z2 RL221 40 45		<0.002	<0.002		0.05	0.03
Z2 RL221 45 50		<0.002			<0.02	
Z2 RL221 50 55		<0.002			<0.02	
Z2 RL221 55 60		<0.002			0.03	
Z2 RL221 60 65		<0.002			0.13	
Z2 RL221 65 70		<0.002			0.07	
Z2 RL221 70 75		<0.002			0.05	
Z2 RL221 75 80		<0.002			0.08	
Z2 RL221 80 85		<0.002			<0.02	
Z2 RL221 85 90		<0.002			<0.02	
Z2 RL221 90 95		<0.002	<0.002		<0.02	
Z2 RL221 95 100		<0.002			<0.02	
P4 BA 94		<0.002			<0.02	
Z2 RL221 100 105		<0.002			<0.02	
Z2 RL221 105 110		<0.002			<0.02	
Z2 RL221 110 115		<0.002			<0.02	
Z2 RL221 115 120		<0.002			<0.02	
Z2 RL221 120 125		<0.002	<0.002		0.06	0.05
Z2 RL221 125 130		<0.002			<0.02	0.03
Z2 RL221 130 135		<0.002			0.06	
Z2 RL221 135 140		<0.002			0.03	
Z2 RL221 140 145		<0.002			0.05	
Z2 RL221 145 150		<0.002	<0.002		0.03	
Z2 RL221 150 155		0.003			0.06	
Z2 RL221 155 160		<0.002			<0.02	
Z2 RL221 160 165		<0.002			<0.02	
Z2 RL221 165 170		<0.002			<0.02	
Z2 RL221 170 175		<0.002			<0.02	
Z2 RL221 175 180		<0.002			0.03	
Z2 RL221 180 185		<0.002			<0.02	
Z2 RL221 185 190		<0.002			<0.02	
Z2 RL221 190 195		<0.002	<0.002		<0.02	

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Z2 RL221 195 200		<0.002			<0.02	
P4 BA 95		0.028			0.21	
Z2 RL221 200 205		<0.002			<0.02	
Z2 RL221 205 210		<0.002			<0.02	
Z2 RL221 210 215		0.004			0.10	0.10
Z2 RL221 215 220		0.005			0.09	
Z2 RL221 220 225		<0.002			0.06	
Z2 RL221 220 225 DUPL		<0.002			<0.02	
Z2 RL221 225 230		0.005			0.09	
Z2 RL221 230 235		0.004			0.08	
Z2 RL221 235 240		0.003			0.07	
Z2 RL221 240 245		<0.002	<0.002		0.04	
Z2 RL221 245 250		<0.002			0.06	
Z2 RL221 250 255		0.008			0.08	
Z2 RL221 255 260		0.008			0.07	
Z2 RL221 260 265		<0.002			0.08	
Z2 RL221 265 270		<0.002			0.04	
Z2 RL221 270 275		<0.002			<0.02	
Z2 RL221 275 280		<0.002			<0.02	
Z2 RL221 280 285		<0.002			<0.02	
Z2 RL221 285 290		<0.002			<0.02	
Z2 RL221 290 295		<0.002	<0.002		<0.02	
P4 BA 96		0.060	0.058		0.03	0.04
Z2 RL221 295 300		<0.002			<0.02	
Z2 RL221 300 305		<0.002			<0.02	
Z2 RL221 305 310		<0.002			<0.02	
Z2 RL221 310 315		<0.002			<0.02	
Z2 RL221 315 320		<0.002			0.06	
Z2 RL221 325 330		<0.002			<0.02	
Z2 RL221 330 335		<0.002			<0.02	
Z2 RL221 335 340		<0.002			<0.02	
Z2 RL221 340 345		<0.002	<0.002		<0.02	<0.02
Z2 RL221 345 350		0.003			0.06	
Z2 RL221 350 355		0.004	0.004		0.07	
Z2 RL221 355 360		<0.002			<0.02	
Z2 RL221 360 365		0.003			0.03	
Z2 RL221 365 370		<0.002			0.04	
Z2 RL221 370 375		0.018			<0.02	
Z2 RL221 375 380		<0.002			0.03	
Z2 RL221 380 385		<0.002			<0.02	

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Z2 RL221 385 390		<0.002			<0.02	<0.02
Z2 RL221 390 395		<0.002			<0.02	
Z2 RL221 395 400		<0.002			<0.02	
P4 BA 97		0.033	0.035		0.22	
Z2 RL221 400 405		<0.002			<0.02	
Z2 RL221 405 410		<0.002			<0.02	
Z2 RL221 410 415		<0.002			<0.02	
Z2 RL221 415 420		<0.002			0.04	
Z2 RL221 420 425		<0.002			<0.02	
Z2 RL221 425 430		<0.002			<0.02	
Z2 RL221 430 435		<0.002			<0.02	
Z2 RL221 435 440		<0.002			<0.02	
Z2 RL221 440 445		<0.002			<0.02	
Z2 RL221 445 450		<0.002			<0.02	
Z2 RL221 450 455		<0.002	<0.002	<0.002	<0.02	
Z2 RL221 455 460		<0.002			<0.02	
Z2 RL221 460 465		<0.002			<0.02	
Z2 RL221 465 470		0.012			<0.02	
Z2 RL221 470 475		0.048			0.03	0.04
Z2 RL221 475 480		0.021			0.04	
Z2 RL221 480 485		0.003			<0.02	
Z2 RL221 485 490		0.041			<0.02	
Z2 RL221 490 495		0.004			0.04	
Z2 RL221 495 500		0.011			<0.02	
P4 BA 98		0.035			0.26	
Z2 RL221 500 505		<0.002	0.002		<0.02	
Z2 RL221 505 510		<0.002			<0.02	
Z2 RL221 510 515		0.004			0.08	
Z2 RL221 515 520		0.003			0.04	
Z2 RL221 520 525		0.016			0.03	
Z2 RL221 525 530		0.005			0.08	
Z2 RL221 530 535		0.005			0.05	
Z2 RL221 535 540		0.009			0.04	
Z2 RL221 540 545		0.006			0.04	
Z2 RL221 545 550		<0.002			0.03	
Z2 RL221 550 555		<0.002	<0.002		0.03	
Z2 RL221 555 560		0.041#	0.032	0.021	0.05	
Z2 RL221 560 565		<0.002			0.03	
Z2 RL221 565 570		0.013			0.04	
Z2 RL221 570 575		0.015			0.06	

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Z2 RL221 575 580		0.003			0.03	
Z2 RL221 580 585		0.013			0.04	
Z2 RL221 585 590		0.009			0.03	
Z2 RL221 590 595		0.009			0.13	
Z2 RL221 595 600		0.004			0.12	
P4 BA 99		<0.002			<0.02	
Z2 RL221 600 605		0.004	0.005		0.12	
Z2 RL221 605 610		0.051	0.038		0.37	
Z2 RL221 610 615		0.007			0.14	
Z2 RL221 615 620		0.009	0.003	0.004	0.06	0.08
Z2 RL221 620 625		0.004			0.05	
Z2 RL221 625 630		0.005			0.18	
Z2 RL221 630 635		0.007			0.08	
Z2 RL221 635 640		0.021			0.26	
Z2 RL221 640 645		0.007			0.19	0.24
Z2 RL221 645 650		0.006			0.28	
Z2 RL221 650 655		0.013			0.47	
Z2 RL221 655 660		0.008#	<0.002	0.030	0.93	
Z2 RL221 660 665		0.010			0.14	
Z2 RL221 665 670		0.009			0.68	
Z2 RL221 670 675		0.004			0.12	
Z2 RL221 675 680		0.005			0.17	
Z2 RL221 680 685		0.010			0.33	
Z2 RL221 685 690		0.007			0.30	
Z2 RL221 690 695		0.020			0.25	
Z2 RL221 695 700		0.007			0.25	
P4 BA 100		0.018	0.012		0.09	
Z2 RL221 700 705		0.026			0.47	

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Z2 RL221 705 710		0.004		0.59	0.61	
Z2 RL221 710 715		0.004		0.26	0.24	
Z2 RL221 715 720		0.004		0.27	0.26	
Z2 RL221 720 725		0.013	0.017	0.19	0.20	
Z2 RL221 725 730		0.012	0.016	0.86	0.84	
Z2 RL221 730 735		0.019		1.35	1.42	
Z2 RL221 735 740		0.016		0.39	0.37	
Z2 RL221 740 745		0.020			0.12	
Z2 RL221 745 750		0.064			0.16	
Z2 RL221 750 755		0.150			0.44	
Z2 RL221 755 760		0.063			0.11	
Z2 RL221 760 765		0.035			0.15	
Z2 RL221 765 770		0.050			0.13	
Z2 RL221 770 775		0.072			0.14	
Z2 RL221 775 780		0.014	0.019		0.15	
Z2 RL221 780 785		0.015			0.14	
Z2 RL221 785 790		0.014			0.10	
Z2 RL221 790 795		0.015			0.11	
Z2 RL221 795 800		0.012			0.11	
Z2 RL221 800 805		0.009			0.11	
P4 BA 130		0.051			0.06	
Z2 RL221 805 810		0.008			0.11	
Z2 RL221 810 815		0.020		0.17	0.15	
Z2 RL221 815 820		0.056			0.36	
Z2 RL221 820 825		0.012			1.05	
Z2 RL221 825 830		0.024			0.24	
Z2 RL221 830 835		0.024	0.023		0.17	
Z2 RL221 835 840		0.007			0.10	
Z2 RL221 840 845		0.035			0.15	
Z2 RL221 845 850		0.013			0.10	
Z2 RL221 850 855		0.004			0.13	
Z2 RL221 855 860		0.010			6.47	
Z2 RL221 860 865		0.004			0.51	
Z2 RL221 865 870		0.011			0.13	
Z2 RL221 870 875		0.005			0.16	
Z2 RL221 875 880		0.011			0.10	
Z2 RL221 880 885		0.025#	0.003		0.11	0.007
Z2 RL221 885 890		0.003			0.16	
Z2 RL221 890 895		0.008			0.27	
Z2 RL221 895 900		<0.002			0.07	

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Z2 RL221 900 905		<0.002		0.13	0.16	
P4 BA 131		0.030			0.27	
Z2 RL221 905 910		0.003			0.15	
Z2 RL221 910 915		0.006			0.42	
Z2 RL221 915 920		0.013			0.83	
Z2 RL221 920 925		0.007			0.45	
Z2 RL221 925 930		<0.002			0.05	
Z2 RL221 930 935		0.003	0.004		0.13	

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
RL221 720 725		0.013	0.017	0.19	0.20	
Prep Duplicate		0.017			0.20	
RL221 725 730		0.012	0.016	0.86	0.84	
Duplicate		0.016			0.86	
RL221 775 780		0.014	0.019		0.15	
Duplicate		0.019				
RL221 810 815		0.020		0.17	0.15	
Duplicate					0.17	
RL221 830 835		0.024	0.023		0.17	
Duplicate		0.023				
RL221 880 885		0.025#	0.003		0.11	0.007
Duplicate		0.003				
RL221 900 905		<0.002		0.13	0.16	
Duplicate					0.13	
RL221 930 935		0.003	0.004		0.13	
Duplicate		0.004				

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RL221 40 45		<0.002	<0.002		0.05	0.03
Duplicate		<0.002			0.03	
RL221 90 95		<0.002	<0.002		<0.02	
Duplicate		<0.002				
RL221 120 125		<0.002	<0.002		0.06	0.05
Prep Duplicate		<0.002			0.05	
RL221 125 130		<0.002			<0.02	0.03
Duplicate					0.03	
RL221 145 150		<0.002	<0.002		0.03	
Duplicate		<0.002				
RL221 190 195		<0.002	<0.002		<0.02	
Duplicate		<0.002				
RL221 210 215		0.004			0.10	0.10
Duplicate					0.10	
RL221 240 245		<0.002	<0.002		0.04	
Duplicate		<0.002				
RL221 290 295		<0.002	<0.002		<0.02	
Duplicate		<0.002				
BA 96		0.060	0.058		0.03	0.04
Duplicate		0.058			0.04	
RL221 340 345		<0.002	<0.002		<0.02	<0.02
Prep Duplicate		<0.002			<0.02	
RL221 350 355		0.004	0.004		0.07	
Duplicate		0.004				
RL221 385 390		<0.002			<0.02	<0.02
Duplicate					<0.02	
BA 97		0.033	0.035		0.22	
Duplicate		0.035				
RL221 450 455		<0.002	<0.002	<0.002	<0.02	
Prep Duplicate		<0.002			<0.02	<0.02
		<0.002				
RL221 470 475		0.048			0.03	0.04
Duplicate					0.04	

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: 19-AUG-91

REPORT: R91-11558.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT
RL221 500 505		<0.002	0.002		<0.02	
Duplicate		<0.002				
RL221 555 560		0.041#	0.032	0.021	0.05	
Duplicate		0.021				
Prep Duplicate		<0.002			<0.02	<0.02
Duplicate					<0.02	
RL221 600 605		0.004	0.005		0.12	
Duplicate		0.005				
RL221 615 620		0.009	0.003	0.004	0.06	0.08
Prep Duplicate		0.003			0.08	
RL221 640 645		0.007			0.19	0.24
Duplicate					0.24	
RL221 655 660		0.008#	<0.002	0.030	0.93	
Duplicate		0.030				
Prep Duplicate		0.003			0.08	
Duplicate		0.004				

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

Page Number :1
Total Pages :1
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	
RL 203C 115-120	208	294	0.001	Eg
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	
RL 205C 225-230	208	294	0.007	Eg
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	
RL 214 195-200	208	294	0.007	
RL 214 295-300	208	294	0.002	
RL 214 395-400	208	294	< 0.001	Eg
RL 214 445-450	208	294	0.004	
RL 214 495-500	208	294	0.003	
RL 214 545-550	208	294	0.001	
RL 214 595-600	208	294	< 0.001	
RL 221 750-755	208	294	0.086	LAC
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: Andrew N Adam