60001395

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-168
AUTHOR	B. Thomas; G. MacVeigh; P. Grafft
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; Chemex Labs, Inc; Bondar-Clegg, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 720'; handwritten notes; receipt; geochemistry; directional survey 42p.

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 5/20/08
Initials Date

DB:
Initials Date

SCANNED: mah
Initials Date

Revised: 1/22/08

DRILL LOGS RL-168
Rosebud

6000 1395 4010

60001395

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

DRILL LOG SUMMARY SHEET

PROJECT Rose bud

HOLE NUMBER RL-168 TOTAL DEPTH 720' LOGGED BY RKS

Date started 4/16/91

Date completed 4/18/91

Initial bearing —

Initial inclination -90°

Elevation 5337.1

Collar coordinates:

N 2203876.0

E 483023.7

Contractor: Stevens Drilling

Drill Type: RC

Hole Size: 4½"

Drilling Conditions:

Footage: Wet / Dry 0-250 Dry

250-720 wet

Comments: 1st hole in 1991 and 1st Hole I logged on this Project

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
DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-168

Page 1 of 8

Start 4/16/91 Finish 4/18/91

Section 1600 N

LOGGED BY BKS

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
														OB - Qal	<1/<1	.03/<1		
05																		
10																.04		
15																.04		
20														Bedrock @ ~18 ft		.03		
25									Yllw-org & Brn-org					Yllw-Org v.f. grn tuff		.04		
30														Weak to mod bleaching → chocolate (?)		.05		
35																.05		
40									Brn-org lt Green					Brn-org & lt Green v.f. grn tuff		.05		
45															.004	.10		
50															<1	.06		
55															<1/<1	.04/.02		
60															<1	.06		
65															.003	.08		
70															<1	.07		
75															<1	.04		
80									& grey				.5	1st sulfide show	<1	.07		
85													.5		.002	.10		
90													.5		<1	.03		
95													.5	?	<1	.03		
100													.5	Oxides Sulfides [Redox boundary?]	<1	.05		
									lt grey lt green Peach				1	w/ trace Peach color & Slight incr. in Sulf.				

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DRILL HOLE RL-168

Page 2 of 8

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 lt Peach				1	lt Grey, lt Green & Peach v.f. grn tuff (stronger sulf.)	.006	.04		
105									lt green org				.5	lt Green & org vf. grn tuff	<	<		
110									Brn-red				0	Strong Δ color to Brn-red Still v.f. gr. tuff				
115													0					
120													0					
125									lt Green lt grey				.5	Green to lt Grey v.f. grn tuff (trace Peach)				
130													.5		.007	.04		
135													.5		.011	.10		
140													.5		.004	.05		
145													1	Stronger sulf.	<	<		
150													.5					
155									lt Green red				0	lt green & red vf grn tuff	<	<		
160									Brn-red				0	Brn-red vf grn tuff strg Δ color				
165													0					
170									lt green lt grey				.5	lt green ~~tuff~~ vf. grn tuff				
175													1	Stronger Clay alt	.005	.04		
180													.5	(trace Peach color)	<	<		
185													1		<	.04		
190													.5		.013	.06		
195													1		<	<		
200																		

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DRILL HOLE RL-168

Page 3 of 8

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				1	v.f. grn tuff (AA still in C+)	.003	.06		
205																		
													1		<.2/<.2	.09/.04		
210																		
													1		<.2/<.2	<.2/<.2		
215																		
													1		<.2	<.2		
220																		
													1					
225																		
													.5					
230																		
													.5					
235																		
									Brn-red lt Green				0	Strg Δ color				
240																		
													0	w/ minor gior(?) phenocrysts				
245																		
									Brn-red				0	(Δ color)				
250																		
													0	(H_2O @ 253' wet)				
255																		
									lt Green lt Grey				.5	Δ color	<.2/<.2	<.2/.02		
260																		
													.5		<.2	<.2		
265																		
													.5					
270																		
									lt Grey Grey-red				0	(sm. Frax zone) Δ color				
275																		
													0					
280																		
													0					
285																		
													0					
290																		
													0					
295																		
													0					
300																		

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

DRILL HOLE RL-168

Page 4 of 8

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
305									lt grey Grey-lav.				0	(vf grn tuff SAA Ct) 4/16 4/17	<	<		
310									Grey-lavender				0	(minor (~5%) contam)				
315													0					
320													0					
325													0					
330									Grey-lav lt Green				0	(Δ color ~ last 1ft of interval)				
335									lt green				.5	Δ color to lt Green				
340													.5					
345													1					
350													3					
355													1		.002	.06		
360									lt grey lt green				3	Strg bleaching (Py & drk Grey Sulfides) & minor Qtz/Py veining	.003	.10		
365													3		.005/.005	.10/.10		
370									& Peach				3		.004	.09		
375									& Peach				3		<	.06		
380													3		.005	.08		
385													3		.005/.008	.09/.11		
390													2		.004	.08		
395													2		.005	.09		
400									& Peach				3		.003	.05		

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	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 wht Peach				2	AA - very bleached; weak arg mod sulf	.004	.07		
405																		
410													1		<	.03		
415													1		<	<		
420													1		<	.03		
425													1		<	<		
430													1		.003	.05		
435													1		<	.03		
440													1		<	.03		
445													1	(Kick in Air Booster)	<	<		
450													1		<	<		
455													1		.004	.09		
460													1	Stringer Peach color	.006	.11		
465													1		< / <	.06 / .06		
470													1		<	.09		
475													1		.004	.12		
480									lt Grey lt Green wht peach				1	(Peach color thinning out)	.006	.07		
485													.5		<	.04		
490													.5		.003	.03		
495													1		<	<		
500									Peach lt green				.5		<	<		

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	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
									Peach-red lt. Green				.5	Same AA - vf grn tuff	<	<		
505															<	<		
510																		
515															.003	.03		
520															< / <	< / <		
525									Green Red Peach						# .019	.07		
530									lt Grey peach-red lt Green						<	.03		
535															<	.06		
540													1		<	.05		
545									lt Grey lt Grn				.5		<	.07		
550	Fault								& wht				1	(w/ dark grey Fault Gouge)	.013	.78		
555									wht dark grey				2	difficult to determine protolith may still be in Ct (micro-Bxd → hydrothermal Bx zone)	.056	.41		
560													1	v.f. grn tuff	# .484	7.12		
565									Green wht				.5		.071 / .092	.50 / .52		
570													.5	V.f. grn tuff Ct(?)	# .451	1.10		
575	frat								& grey Peach				1	(Strg slfd & micro Bxd)	2.657	3.31		
580													1		5.312	5.75		
585									lt Pale Green wht lt Grey				.5	(trace of micro Bx)	.101	.14		
590													.5	Vf grn Featureless tuff may be Rozer(?) - cannot tell yet	.311	.54		
595													.5	(w/ a sm micro Bx zone)	.021	.07		
600													.5		.047	.08		

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	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
605									lt Grey lt Grey-olive				.5	S AA v.f. grn Featureless tuff Dozer	.023	.06		
610													.5		.024	.09		
Frax 615													1	(sm zone of micro Bx)	.062	.12		
620													1		.038 / .030	.14 / .12		
625									lt Grey wht				.5	(H_2O reading → 50 gal/minute)	.054	.08		
630													.5		.029	.05		
635													.5		.088	.14		
640									lt Grey Grey-Olive				.5		.016	.05		
645									lt Green Peach				.5		.100	.13		
650													.5		.014	.06		
655													.5	(Peach color thinning out)	.014	.05		
660													.5		.018	.05		
665															.014	.05		
670															.023 / .021	.06 / .05		
675															.024	.06		
680															.023	.07		
Frax 685														(w/ Barite x-tals) 4/17 4/18 11:00 am	.011 / .012	.04 / .05		
690														(minor micro Bx)	.025	.08		
695															.075	.11		
700															.044	.07		

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

DRILL HOLE RL-168

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LOGGED BY _____

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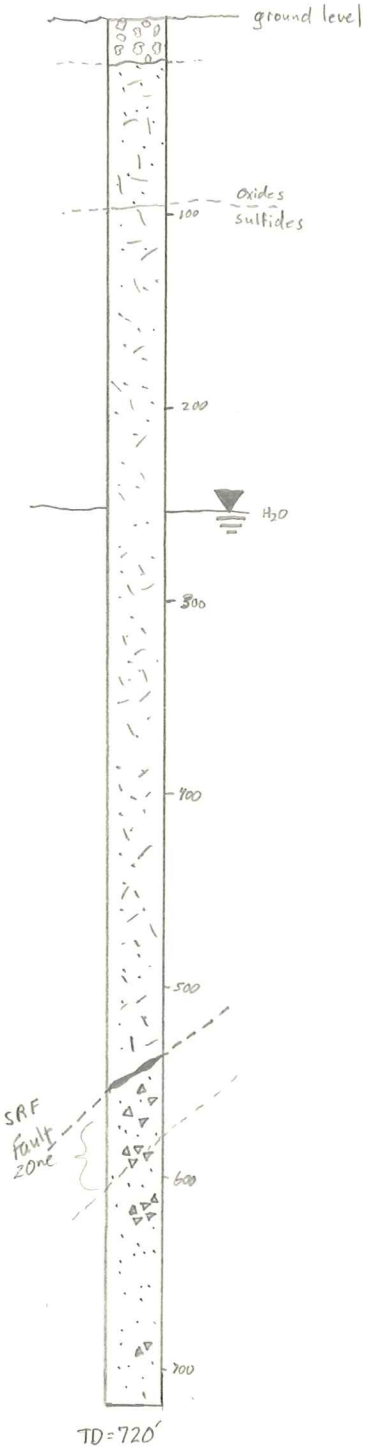
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV.
5m frat zone		x							H Green Peach				.5	SAA - Dozer Tuff	.025	.06		
05															.031	.06		
10															.014	.09		
15															.041	.08		
20														E.O.H. ~ T.D. = 720'				
25																		
30														@ 12:30 pm				
														4/18/91				
35																		
40																		
45																		
50																		
55																		
60																		
65																		
70																		
75																		
80																		
85																		
90																		
95																		
00																		

RL-168

Section 1600 N.E.; 1004 SE



0-18' - O.B. (Qal)

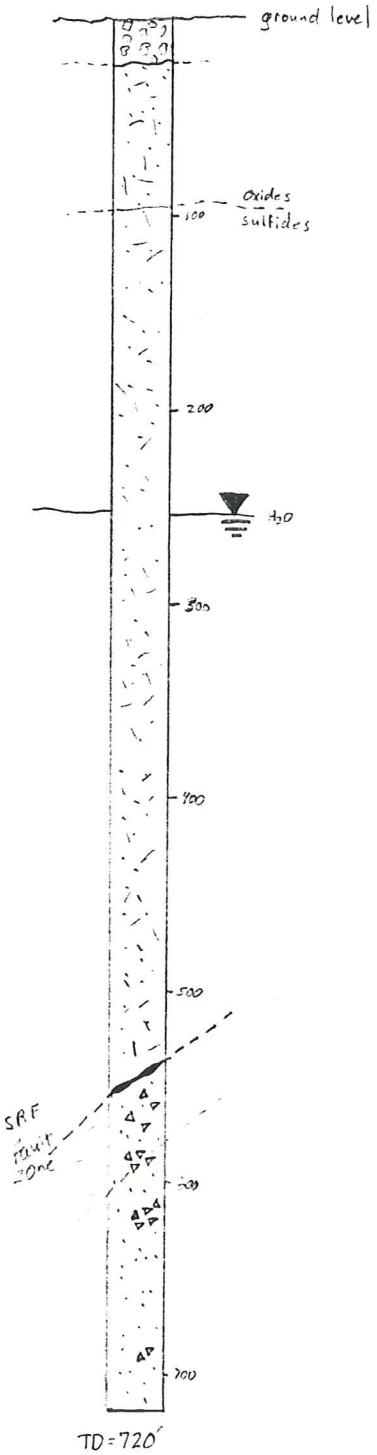
18'- 550' Chocolate tuff

550'- 585' South Ridge Fault Zone consists of silicified Fault Breccia of both Chocolate and Dozer Tuff.

585'- 720' Dozer tuff

RL-168

Section 1600 N.E. - 1004 SE



0-18' - O.B. (Qal)

18' - 550' Chocolate tuff

550' - 585' South Ridge Fault Zone consists of silicified Fault Breccia of both Chocolate and Dozer Tuff.

585' - 720' Dozer tuff

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

INVOICE NUMBER I 9 1 1 4 6 5 8

BILLING INFORMATION

Date: 20-MAY-91
Project:
P.O. No.:
Account: IZR

Comments:

Billing: For analysis performed on Certificate A9114658

Terms: Payment due on receipt of invoice
1.5% per month (18% per annum)
charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS, INC.
994 West Glendale Ave.,
Suite 7, Sparks, Nevada,
U.S.A. 89431

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
14	205 - Geochem - RING	1.65		
	294 - 0-10 lb Crush + split	2.25		
	ROCK-20	8.75	12.65	177.10
17	205 - Geochem - RING	1.65		
	272 - 11-20 lb Crush + split	4.00		
	ROCK-20	8.75	14.40	244.80
			Total Cost $	421.90
			TOTAL PAYABLE (U.S.) $	**421.90**

76% Equinox
24% LAC

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

A9114658

Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

CERTIFICATE A9114658

LAC MINERALS U.S.A. INC

Project:
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 20-MAY-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	31	Geochem ring to approx 150 mesh
272	17	Crush and split (11-20 pounds)
294	14	Crush and split (0-10 pounds)
232	31	PERCHLORIC-NITRIC-HYDROFLUORIC D

* NOTE 1:

Code 1000 is used for repeat gold analyses It shows typical sample variability due to coarse gold effects. Each value is correct for its particular subsample.

* NOTE 2:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
1008	31	Al203 %: 20 element, rock ID	ICP-AES	0.01	50.0
565	31	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
1009	31	CaO%: 20 element, rock ID	ICP-AES	0.01	35.0
563	31	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	31	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	31	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
1010	31	Fe203%: 20 element, rock ID	ICP-AES	0.01	35.0
1011	31	K2O %: 20 element, rock ID	ICP-AES	0.01	10.00
1006	31	La ppm: 20 element, rock ID	ICP-AES	20	10000
1012	31	MgO %: 20 element, rock ID	ICP-AES	0.01	35.0
568	31	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	31	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
1013	31	Na2O %: 20 element, rock ID	ICP-AES	0.01	10.00
564	31	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	31	P ppm: 24 element, rock & core	ICP-AES	10	10000
1007	31	Pb ppm: 20 element, rock ID	ICP-AES	5	10000
582	31	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
1014	31	TiO2 %: 20 element, rock ID	ICP-AES	0.01	10.00
572	31	V ppm: 24 element, rock & core	ICP-AES	1	10000
558	31	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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 :
Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

Certificate Date: 20-MAY-91
Invoice No. :I9114658
P.O. Number :

CERTIFICATE OF ANALYSIS A9114658

SAMPLE DESCRIPTION	PREP CODE		Al2O3 % ICP	Ba ppm (ICP)	CaO % ICP	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe2O3 % ICP	K2O % ICP	La ppm ICP	MgO % ICP
C-2459	205	294	10.50	210	0.18	< 1	63	5	1.87	0.50	20	0.10
C-2470	205	294	11.95	710	0.27	< 1	29	5	10.40	2.80	20	0.11
RL-168 550-555	205	272	4.56	160	0.15	< 1	147	18	1.80	0.80	< 20	0.21
RL-168 555-560	205	272	5.58	150	0.14	< 1	107	42	1.63	1.10	< 20	0.23
RL-168 560-565	205	272	6.63	770	0.16	1	94	15	1.14	1.50	20	0.28
RL-168 565-570	205	272	8.38	730	0.20	2	44	20	1.50	1.80	20	0.35
RL-168 570-575	205	272	8.22	330	0.19	2	129	108	2.15	1.70	20	0.32
RL-168 575-580	205	272	6.62	460	0.15	1	69	167	2.35	1.50	20	0.27
RL-168 580-585	205	294	10.60	540	0.20	< 1	56	14	3.36	2.90	20	0.30
RL-168 585-590	205	272	10.60	730	0.19	< 1	68	11	3.28	3.00	20	0.23
RL-171 305-310	205	272	14.40	420	3.66	1	22	5	5.15	3.90	20	0.96
RL-171 355-360	205	272	11.05	520	1.71	1	30	4	3.39	3.10	20	0.66
RL-171 405-410	205	294	9.75	430	0.36	3	116	8	5.29	2.00	20	0.36
RL-171 475-480	205	294	13.80	220	0.53	3	30	12	12.40	2.60	20	0.59
RL-171 635-640	205	272	11.75	1070	0.39	< 1	55	11	5.65	3.10	20	0.27
RL-171 685-690	205	272	10.40	620	0.30	< 1	72	23	4.45	2.30	20	0.26
RL-171 785-790	205	272	10.20	160	0.30	1	54	16	4.02	2.40	20	0.46
RL-171 835-840	205	272	13.20	940	2.13	< 1	39	10	3.14	3.70	60	0.37
RL-171B 520-525	205	294	14.20	920	0.42	2	67	8	4.19	3.60	20	0.34
RL-171B 570-575	205	294	13.20	940	0.81	< 1	31	22	6.56	3.20	20	0.43
RL-171B 620-625	205	294	11.95	840	0.39	< 1	66	15	7.01	2.90	20	0.29
RL-171B 670-675	205	272	10.00	360	0.25	< 1	70	9	3.83	2.20	20	0.25
RL-171B 720-725	205	272	14.45	590	1.74	2	24	5	3.62	3.80	20	0.48
RL-171B 770-775	205	294	8.04	330	0.19	< 1	81	56	5.15	1.80	< 20	0.24
RL-172 045-050	205	294	14.90	700	0.19	< 1	44	6	2.50	4.90	80	0.12
RL-172 095-100	205	294	14.15	560	0.29	< 1	20	8	2.23	4.40	60	0.07
RL-172 145-150	205	294	8.62	320	0.18	< 1	21	5	1.32	2.70	40	0.05
RL-172 195-200	205	294	14.20	560	1.19	< 1	39	9	2.46	4.40	80	0.10
RL-172 245-250	205	294	13.60	520	0.84	< 1	31	23	2.41	4.40	60	0.07
RL-172 295-300	205	272	14.25	470	0.91	< 1	23	4	2.25	4.40	80	0.08
RL-172 345-350	205	272	14.00	490	0.70	< 1	39	3	2.50	4.50	80	0.07

CERTIFICATION: B. Caufi

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 :
Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

Certificate Date: 20-MAY-91
Invoice No. : I9114658
P.O. Number :

CERTIFICATE OF ANALYSIS A9114658

SAMPLE DESCRIPTION	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na20 % ICP	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti02 % ICP	V ppm (ICP)	Zn ppm (ICP)
C-2459	205	294	70	1	0.21	2	320	< 5	43	0.15	< 1	28
C-2470	205	294	90	4	0.66	1	790	15	115	0.14	< 1	112
RL-168 550-555	205	272	35	1	0.09	4	120	10	165	0.08	3	80
RL-168 555-560	205	272	45	< 1	0.09	2	100	5	86	0.07	3	54
RL-168 560-565	205	272	45	1	0.10	4	60	5	53	0.03	5	50
RL-168 565-570	205	272	55	4	0.13	9	110	25	67	0.07	13	84
RL-168 570-575	205	272	55	12	0.13	14	120	25	78	0.07	13	72
RL-168 575-580	205	272	35	2	0.11	9	110	20	50	0.07	9	62
RL-168 580-585	205	294	40	2	0.19	2	180	30	56	0.15	2	174
RL-168 585-590	205	272	80	3	0.20	6	200	25	59	0.15	1	130
RL-171 305-310	205	272	1580	1	0.99	< 1	520	20	125	0.50	36	98
RL-171 355-360	205	272	715	1	0.18	1	280	15	88	0.23	9	64
RL-171 405-410	205	294	75	2	0.16	1	580	20	62	0.39	28	76
RL-171 475-480	205	294	415	3	0.50	1	690	30	63	0.47	36	100
RL-171 635-640	205	272	70	1	0.39	2	560	25	58	0.29	2	80
RL-171 685-690	205	272	60	3	0.19	< 1	490	20	44	0.27	6	74
RL-171 785-790	205	272	70	2	0.17	1	390	20	47	0.25	8	90
RL-171 835-840	205	272	805	4	0.22	1	220	15	140	0.15	< 1	100
RL-171B 520-525	205	294	70	2	1.54	< 1	600	20	83	0.35	12	92
RL-171B 570-575	205	294	250	2	0.95	< 1	430	20	79	0.28	8	78
RL-171B 620-625	205	294	95	2	0.28	1	510	35	68	0.29	7	108
RL-171B 670-675	205	272	45	3	0.18	1	420	20	67	0.28	5	82
RL-171B 720-725	205	272	900	1	2.06	1	620	10	187	0.34	9	84
RL-171B 770-775	205	294	45	5	0.15	2	300	20	67	0.19	4	74
RL-172 045-050	205	294	75	4	1.58	< 1	130	30	58	0.12	< 1	86
RL-172 095-100	205	294	740	3	3.09	1	120	40	72	0.10	< 1	88
RL-172 145-150	205	294	165	< 1	1.92	1	70	25	33	0.06	< 1	52
RL-172 195-200	205	294	770	2	3.50	1	120	35	98	0.10	< 1	96
RL-172 245-250	205	294	845	3	3.21	1	110	105	65	0.09	< 1	124
RL-172 295-300	205	272	595	4	3.54	1	110	30	79	0.10	< 1	84
RL-172 345-350	205	272	660	2	3.53	< 1	140	20	68	0.10	< 1	98

CERTIFICATION: B. Caylin

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

A9114658

Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

CERTIFICATE A9114658

LAC MINERALS U.S.A. INC

Project:
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 20-MAY-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	31	Geochem ring to approx 150 mesh
272	17	Crush and split (11-20 pounds)
294	14	Crush and split (0-10 pounds)
232	31	PERCHLORIC-NITRIC-HYDROFLUORIC D

* NOTE 1:

Code 1000 is used for repeat gold analyses It shows typical sample variability due to coarse gold effects. Each value is correct for its particular subsample.

* NOTE 2:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
1008	31	Al203 %: 20 element, rock ID	ICP-AES	0.01	50.0
565	31	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
1009	31	CaO%: 20 element, rock ID	ICP-AES	0.01	35.0
563	31	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	31	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	31	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
1010	31	Fe203%: 20 element, rock ID	ICP-AES	0.01	35.0
1011	31	K20 %: 20 element, rock ID	ICP-AES	0.01	10.00
1006	31	La ppm: 20 element, rock ID	ICP-AES	20	10000
1012	31	MgO %: 20 element, rock ID	ICP-AES	0.01	35.0
568	31	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	31	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
1013	31	Na20 %: 20 element, rock ID	ICP-AES	0.01	10.00
564	31	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	31	P ppm: 24 element, rock & core	ICP-AES	10	10000
1007	31	Pb ppm: 20 element, rock ID	ICP-AES	5	10000
582	31	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
1014	31	Ti02 %: 20 element, rock ID	ICP-AES	0.01	10.00
572	31	V ppm: 24 element, rock & core	ICP-AES	1	10000
558	31	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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 :
Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

Certificate Date: 20-MAY-91
Invoice No. : I9114658
P.O. Number :

CERTIFICATE OF ANALYSIS A9114658

SAMPLE DESCRIPTION	PREP CODE		Al2O3 % ICP	Ba ppm (ICP)	CaO % ICP	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe2O3 % ICP	K2O % ICP	La ppm ICP	MgO % ICP
C-2459	205	294	10.50	210	0.18	< 1	63	5	1.87	0.50	20	0.10
C-2470	205	294	11.95	710	0.27	< 1	29	5	10.40	2.80	20	0.11
RL-168 550-555	205	272	4.56	160	0.15	< 1	147	18	1.80	0.80	< 20	0.21
RL-168 555-560	205	272	5.58	150	0.14	< 1	107	42	1.63	1.10	< 20	0.23
RL-168 560-565	205	272	6.63	770	0.16	1	94	15	1.14	1.50	20	0.28
RL-168 565-570	205	272	8.38	730	0.20	2	44	20	1.50	1.80	20	0.35
RL-168 570-575	205	272	8.22	330	0.19	2	129	108	2.15	1.70	20	0.32
RL-168 575-580	205	272	6.62	460	0.15	1	69	167	2.35	1.50	20	0.27
RL-168 580-585	205	294	10.60	540	0.20	< 1	56	14	3.36	2.90	20	0.30
RL-168 585-590	205	272	10.60	730	0.19	< 1	68	11	3.28	3.00	20	0.23
RL-171 305-310	205	272	14.40	420	3.66	1	22	5	5.15	3.90	20	0.96
RL-171 355-360	205	272	11.05	520	1.71	1	30	4	3.39	3.10	20	0.66
RL-171 405-410	205	294	9.75	430	0.36	3	116	8	5.29	2.00	20	0.36
RL-171 475-480	205	294	13.80	220	0.53	3	30	12	12.40	2.60	20	0.59
RL-171 635-640	205	272	11.75	1070	0.39	< 1	55	11	5.65	3.10	20	0.27
RL-171 685-690	205	272	10.40	620	0.30	< 1	72	23	4.45	2.30	20	0.26
RL-171 785-790	205	272	10.20	160	0.30	1	54	16	4.02	2.40	20	0.46
RL-171 835-840	205	272	13.20	940	2.13	< 1	39	10	3.14	3.70	60	0.37
RL-171B 520-525	205	294	14.20	920	0.42	2	67	8	4.19	3.60	20	0.34
RL-171B 570-575	205	294	13.20	940	0.81	< 1	31	22	6.56	3.20	20	0.43
RL-171B 620-625	205	294	11.95	840	0.39	< 1	66	15	7.01	2.90	20	0.29
RL-171B 670-675	205	272	10.00	360	0.25	< 1	70	9	3.83	2.20	20	0.25
RL-171B 720-725	205	272	14.45	590	1.74	2	24	5	3.62	3.80	20	0.48
RL-171B 770-775	205	294	8.04	330	0.19	< 1	81	56	5.15	1.80	< 20	0.24
RL-172 045-050	205	294	14.90	700	0.19	< 1	44	6	2.50	4.90	80	0.12
RL-172 095-100	205	294	14.15	560	0.29	< 1	20	8	2.23	4.40	60	0.07
RL-172 145-150	205	294	8.62	320	0.18	< 1	21	5	1.32	2.70	40	0.05
RL-172 195-200	205	294	14.20	560	1.19	< 1	39	9	2.46	4.40	80	0.10
RL-172 245-250	205	294	13.60	520	0.84	< 1	31	23	2.41	4.40	60	0.07
RL-172 295-300	205	272	14.25	470	0.91	< 1	23	4	2.25	4.40	80	0.08
RL-172 345-350	205	272	14.00	490	0.70	< 1	39	3	2.50	4.50	80	0.07

CERTIFICATION: B. Cayli

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 :
Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

Certificate Date: 20-MAY-91
Invoice No. : I9114658
P.O. Number :

CERTIFICATE OF ANALYSIS A9114658

SAMPLE DESCRIPTION	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na20 % ICP	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti02 % ICP	V ppm (ICP)	Zn ppm (ICP)
C-2459	205	294	70	1	0.21	2	320	< 5	43	0.15	< 1	28
C-2470	205	294	90	4	0.66	1	790	15	115	0.14	< 1	112
RL-168 550-555	205	272	35	1	0.09	4	120	10	165	0.08	3	80
RL-168 555-560	205	272	45	< 1	0.09	2	100	5	86	0.07	3	54
RL-168 560-565	205	272	45	1	0.10	4	60	5	53	0.03	5	50
RL-168 565-570	205	272	55	4	0.13	9	110	25	67	0.07	13	84
RL-168 570-575	205	272	55	12	0.13	14	120	25	78	0.07	13	72
RL-168 575-580	205	272	35	2	0.11	9	110	20	50	0.07	9	62
RL-168 580-585	205	294	40	2	0.19	2	180	30	56	0.15	2	174
RL-168 585-590	205	272	80	3	0.20	6	200	25	59	0.15	1	130
RL-171 305-310	205	272	1580	1	0.99	< 1	520	20	125	0.50	36	98
RL-171 355-360	205	272	715	1	0.18	1	280	15	88	0.23	9	64
RL-171 405-410	205	294	75	2	0.16	1	580	20	62	0.39	28	76
RL-171 475-480	205	294	415	3	0.50	1	690	30	63	0.47	36	100
RL-171 635-640	205	272	70	1	0.39	2	560	25	58	0.29	2	80
RL-171 685-690	205	272	60	3	0.19	< 1	490	20	44	0.27	6	74
RL-171 785-790	205	272	70	2	0.17	1	390	20	47	0.25	8	90
RL-171 835-840	205	272	805	4	0.22	1	220	15	140	0.15	< 1	100
RL-171B 520-525	205	294	70	2	1.54	< 1	600	20	83	0.35	12	92
RL-171B 570-575	205	294	250	2	0.95	< 1	430	20	79	0.28	8	78
RL-171B 620-625	205	294	95	2	0.28	1	510	35	68	0.29	7	108
RL-171B 670-675	205	272	45	3	0.18	1	420	20	67	0.28	5	82
RL-171B 720-725	205	272	900	1	2.06	1	620	10	187	0.34	9	84
RL-171B 770-775	205	294	45	5	0.15	2	300	20	67	0.19	4	74
RL-172 045-050	205	294	75	4	1.58	< 1	130	30	58	0.12	< 1	86
RL-172 095-100	205	294	740	3	3.09	1	120	40	72	0.10	< 1	88
RL-172 145-150	205	294	165	< 1	1.92	1	70	25	33	0.06	< 1	52
RL-172 195-200	205	294	770	2	3.50	1	120	35	98	0.10	< 1	96
RL-172 245-250	205	294	845	3	3.21	1	110	105	65	0.09	< 1	124
RL-172 295-300	205	272	595	4	3.54	1	110	30	79	0.10	< 1	84
RL-172 345-350	205	272	660	2	3.53	< 1	140	20	68	0.10	< 1	98

CERTIFICATION: B. Caylin

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

INVOICE NUMBER I9114296

BILLING INFORMATION

Date: 7-MAY-91
Project:
P.O. No.:
Account: IZR

Comments:

Billing: For analysis performed on Certificate A9114296

Terms: Payment due on receipt of invoice 1.5% per month (18% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS, INC.
994 West Glendale Ave.,
Suite 7, Sparks, Nevada,
U.S.A. 89431

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
29	205 - Geochem - RING	1.65		
	294 - 0-10 lb Crush + split	2.25		
	ROCK-20	8.75	12.65	366.85
			Total Cost $	366.85
			TOTAL PAYABLE (U.S.) $	366.85

All Equinox

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

A9114296

Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

CERTIFICATE A9114296

LAC MINERALS U.S.A. INC

Project:
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 7-MAY-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	29	Geochem ring to approx 150 mesh
294	29	Crush and split (0-10 pounds)
232	29	PERCHLORIC-NITRIC-HYDROFLUORIC D

* NOTE 1:

Code 1000 is used for repeat gold analyses It shows typical sample variability due to coarse gold effects. Each value is correct for its particular subsample.

* NOTE 2:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
1008	29	Al203 %: 20 element, rock ID	ICP-AES	0.01	50.0
565	29	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
1009	29	CaO%: 20 element, rock ID	ICP-AES	0.01	35.0
563	29	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	29	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	29	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
1010	29	Fe203%: 20 element, rock ID	ICP-AES	0.01	35.0
1011	29	K2O %: 20 element, rock ID	ICP-AES	0.01	10.00
1006	29	La ppm: 20 element, rock ID	ICP-AES	20	10000
1012	29	MgO %: 20 element, rock ID	ICP-AES	0.01	35.0
568	29	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	29	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
1013	29	Na2O %: 20 element, rock ID	ICP-AES	0.01	10.00
564	29	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	29	P ppm: 24 element, rock & core	ICP-AES	10	10000
1007	29	Pb ppm: 20 element, rock ID	ICP-AES	5	10000
582	29	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
1014	29	TiO2 %: 20 element, rock ID	ICP-AES	0.01	10.00
572	29	V ppm: 24 element, rock & core	ICP-AES	1	10000
558	29	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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 :
Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

Certificate Date: 07-MAY-91
Invoice No. : I9114296
P.O. Number :

CERTIFICATE OF ANALYSIS A9114296

SAMPLE DESCRIPTION	PREP CODE		Al2O3 % ICP	Ba ppm (ICP)	CaO % ICP	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe2O3 % ICP	K2O % ICP	La ppm ICP	MgO % ICP
RL 168 045-050	205	294	13.05	810	0.25	< 1	30	26	4.02	3.50	20	0.45
RL 168 095-100	205	294	13.90	170	0.37	< 1	23	8	5.12	3.50	20	0.46
RL 168 145-150	205	294	13.55	200	0.60	< 1	55	12	4.48	3.90	20	0.28
RL 168 195-200	205	294	14.25	1010	0.44	< 1	46	14	3.82	3.90	20	0.30
RL 168 245-250	205	294	13.65	950	1.58	< 1	31	36	3.83	4.10	20	0.28
RL 168 295-300	205	294	13.80	1000	2.70	< 1	29	4	3.19	4.20	20	0.33
RL 168 345-350	205	294	13.55	800	0.58	< 1	68	12	5.14	3.50	20	0.45
RL 168 395-400	205	294	11.25	470	0.40	< 1	65	7	7.39	2.50	20	0.35
RL 168 445-450	205	294	12.85	1060	0.46	< 1	39	6	5.40	3.80	20	0.29
RL 168 495-500	205	294	13.80	970	1.47	< 1	33	8	3.41	4.30	20	0.34
RL 168 545-550	205	294	9.02	190	0.26	< 1	56	14	3.06	1.60	< 20	0.33
RL 168 595-600	205	294	11.45	260	0.21	< 1	47	18	2.76	3.20	20	0.19
RL 168 645-650	205	294	9.44	120	0.13	< 1	44	10	3.12	2.30	40	0.20
RL 168 695-700	205	294	8.29	200	0.12	< 1	34	5	2.40	1.90	20	0.19
RL 169 045-050	205	294	11.40	620	0.20	< 1	52	21	3.43	2.30	20	0.36
RL 169 095-100	205	294	14.15	370	0.21	22	32	8	3.08	1.60	20	0.29
RL 169 145-150	205	294	15.20	670	0.19	< 1	39	14	3.60	2.80	20	0.24
RL 169 195-200	205	294	13.65	230	0.22	12	43	5	3.45	1.80	20	0.36
RL 169 245-250	205	294	13.10	170	0.28	< 1	52	9	3.63	2.90	20	0.46
RL 169 295-300	205	294	17.35	240	2.29	< 1	25	8	6.56	3.70	20	0.77
RL 169 345-350	205	294	11.90	170	0.37	< 1	95	11	2.94	2.30	< 20	0.43
RL 169 395-400	205	294	10.65	250	0.21	< 1	55	6	3.08	1.80	< 20	0.35
RL 169 445-450	205	294	10.95	240	0.36	1	53	9	4.91	2.00	20	0.44
RL 169 495-500	205	294	10.00	290	0.25	< 1	54	6	2.32	1.80	< 20	0.43
RL 169 545-550	205	294	8.78	390	0.18	< 1	66	6	2.98	1.20	< 20	0.25
RL 169 595-600	205	294	8.44	320	0.18	11	82	12	3.69	1.30	< 20	0.25
RL 169 645-650	205	294	9.10	1580	0.19	4	62	17	3.11	2.00	40	0.23
RL 169 695-700	205	294	9.91	920	0.31	< 1	53	7	4.10	2.70	40	0.27
RL 169 745-750	205	294	13.80	1030	0.31	< 1	38	6	3.32	5.40	40	0.20

CERTIFICATION: B. Caughlin

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 :
Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

Certificate Date: 07-MAY-91
Invoice No. : I9114296
P.O. Number :

CERTIFICATE OF ANALYSIS A9114296

SAMPLE DESCRIPTION	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na20 % ICP	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti02 % ICP	V ppm (ICP)	Zn ppm (ICP)
RL 168 045-050	205	294	70	4	0.89	< 1	370	235	100	0.29	7	150
RL 168 095-100	205	294	110	4	0.97	< 1	390	85	57	0.28	4	116
RL 168 145-150	205	294	180	4	1.64	< 1	400	50	80	0.27	5	114
RL 168 195-200	205	294	155	3	1.68	< 1	440	45	74	0.28	5	144
RL 168 245-250	205	294	415	5	1.90	1	450	285	136	0.29	4	238
RL 168 295-300	205	294	710	2	2.11	< 1	400	25	171	0.28	4	106
RL 168 345-350	205	294	240	3	0.74	< 1	420	115	62	0.28	5	166
RL 168 395-400	205	294	60	2	0.17	< 1	360	35	57	0.26	6	84
RL 168 445-450	205	294	180	3	0.48	< 1	330	25	75	0.26	3	78
RL 168 495-500	205	294	705	2	1.33	< 1	390	40	113	0.27	2	124
RL 168 545-550	205	294	65	2	0.15	2	170	25	85	0.14	2	100
RL 168 595-600	205	294	90	7	0.30	2	220	25	57	0.17	< 1	92
RL 168 645-650	205	294	25	3	0.16	1	120	50	59	0.08	< 1	80
RL 168 695-700	205	294	35	4	0.11	< 1	60	10	604	0.06	< 1	52
RL 169 045-050	205	294	110	3	0.24	2	160	110	71	0.27	6	100
RL 169 095-100	205	294	90	5	0.16	6	630	20	417	0.23	3	104
RL 169 145-150	205	294	165	3	0.22	2	580	105	401	0.26	< 1	124
RL 169 195-200	205	294	105	3	0.16	6	470	25	285	0.25	2	94
RL 169 245-250	205	294	115	2	0.18	1	400	65	127	0.26	2	90
RL 169 295-300	205	294	930	2	0.24	< 1	410	25	66	0.29	3	124
RL 169 345-350	205	294	130	3	0.19	2	320	50	179	0.20	2	114
RL 169 395-400	205	294	70	2	0.14	2	170	25	59	0.17	2	90
RL 169 445-450	205	294	60	2	0.16	1	650	25	66	0.45	16	100
RL 169 495-500	205	294	55	2	0.13	1	260	20	68	0.19	3	84
RL 169 545-550	205	294	40	3	0.13	1	220	30	76	0.18	3	70
RL 169 595-600	205	294	40	2	0.12	42	240	30	172	0.21	5	122
RL 169 645-650	205	294	80	2	0.15	6	110	20	95	0.08	< 1	114
RL 169 695-700	205	294	105	10	0.18	4	100	25	67	0.09	< 1	120
RL 169 745-750	205	294	320	3	1.60	1	160	30	99	0.17	< 1	114

CERTIFICATION: B. Caylin

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

A9114296

Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

CERTIFICATE A9114296

LAC MINERALS U.S.A. INC

Project:
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 7-MAY-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	29	Geochem ring to approx 150 mesh
294	29	Crush and split (0-10 pounds)
232	29	PERCHLORIC-NITRIC-HYDROFLUORIC D

* NOTE 1:

Code 1000 is used for repeat gold analyses It shows typical sample variability due to coarse gold effects. Each value is correct for its particular subsample.

* NOTE 2:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
1008	29	Al203 %: 20 element, rock ID	ICP-AES	0.01	50.0
565	29	Ba ppm: 24 element, rock & core	ICP-AES	10	10000
1009	29	CaO%: 20 element, rock ID	ICP-AES	0.01	35.0
563	29	Co ppm: 24 element, rock & core	ICP-AES	1	10000
569	29	Cr ppm: 24 element, rock & core	ICP-AES	1	10000
577	29	Cu ppm: 24 element, rock & core	ICP-AES	1	10000
1010	29	Fe203%: 20 element, rock ID	ICP-AES	0.01	35.0
1011	29	K2O %: 20 element, rock ID	ICP-AES	0.01	10.00
1006	29	La ppm: 20 element, rock ID	ICP-AES	20	10000
1012	29	MgO %: 20 element, rock ID	ICP-AES	0.01	35.0
568	29	Mn ppm: 24 element, rock & core	ICP-AES	5	10000
554	29	Mo ppm: 24 element, rock & core	ICP-AES	1	10000
1013	29	Na2O %: 20 element, rock ID	ICP-AES	0.01	10.00
564	29	Ni ppm: 24 element, rock & core	ICP-AES	1	10000
559	29	P ppm: 24 element, rock & core	ICP-AES	10	10000
1007	29	Pb ppm: 20 element, rock ID	ICP-AES	5	10000
582	29	Sr ppm: 24 element, rock & core	ICP-AES	1	10000
1014	29	TiO2 %: 20 element, rock ID	ICP-AES	0.01	10.00
572	29	V ppm: 24 element, rock & core	ICP-AES	1	10000
558	29	Zn ppm: 24 element, rock & core	ICP-AES	2	10000

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 :
Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

Certificate Date: 07-MAY-91
Invoice No. : I9114296
P.O. Number :

CERTIFICATE OF ANALYSIS A9114296

SAMPLE DESCRIPTION	PREP CODE		Al2O3 % ICP	Ba ppm (ICP)	CaO % ICP	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe2O3 % ICP	K2O % ICP	La ppm ICP	MgO % ICP
RL 168 045-050	205	294	13.05	810	0.25	< 1	30	26	4.02	3.50	20	0.45
RL 168 095-100	205	294	13.90	170	0.37	< 1	23	8	5.12	3.50	20	0.46
RL 168 145-150	205	294	13.55	200	0.60	< 1	55	12	4.48	3.90	20	0.28
RL 168 195-200	205	294	14.25	1010	0.44	< 1	46	14	3.82	3.90	20	0.30
RL 168 245-250	205	294	13.65	950	1.58	< 1	31	36	3.83	4.10	20	0.28
RL 168 295-300	205	294	13.80	1000	2.70	< 1	29	4	3.19	4.20	20	0.33
RL 168 345-350	205	294	13.55	800	0.58	< 1	68	12	5.14	3.50	20	0.45
RL 168 395-400	205	294	11.25	470	0.40	< 1	65	7	7.39	2.50	20	0.35
RL 168 445-450	205	294	12.85	1060	0.46	< 1	39	6	5.40	3.80	20	0.29
RL 168 495-500	205	294	13.80	970	1.47	< 1	33	8	3.41	4.30	20	0.34
RL 168 545-550	205	294	9.02	190	0.26	< 1	56	14	3.06	1.60	< 20	0.33
RL 168 595-600	205	294	11.45	260	0.21	< 1	47	18	2.76	3.20	20	0.19
RL 168 645-650	205	294	9.44	120	0.13	< 1	44	10	3.12	2.30	40	0.20
RL 168 695-700	205	294	8.29	200	0.12	< 1	34	5	2.40	1.90	20	0.19
RL 169 045-050	205	294	11.40	620	0.20	< 1	52	21	3.43	2.30	20	0.36
RL 169 095-100	205	294	14.15	370	0.21	22	32	8	3.08	1.60	20	0.29
RL 169 145-150	205	294	15.20	670	0.19	< 1	39	14	3.60	2.80	20	0.24
RL 169 195-200	205	294	13.65	230	0.22	12	43	5	3.45	1.80	20	0.36
RL 169 245-250	205	294	13.10	170	0.28	< 1	52	9	3.63	2.90	20	0.46
RL 169 295-300	205	294	17.35	240	2.29	< 1	25	8	6.56	3.70	20	0.77
RL 169 345-350	205	294	11.90	170	0.37	< 1	95	11	2.94	2.30	< 20	0.43
RL 169 395-400	205	294	10.65	250	0.21	< 1	55	6	3.08	1.80	< 20	0.35
RL 169 445-450	205	294	10.95	240	0.36	1	53	9	4.91	2.00	20	0.44
RL 169 495-500	205	294	10.00	290	0.25	< 1	54	6	2.32	1.80	< 20	0.43
RL 169 545-550	205	294	8.78	390	0.18	< 1	66	6	2.98	1.20	< 20	0.25
RL 169 595-600	205	294	8.44	320	0.18	11	82	12	3.69	1.30	< 20	0.25
RL 169 645-650	205	294	9.10	1580	0.19	4	62	17	3.11	2.00	40	0.23
RL 169 695-700	205	294	9.91	920	0.31	< 1	53	7	4.10	2.70	40	0.27
RL 169 745-750	205	294	13.80	1030	0.31	< 1	38	6	3.32	5.40	40	0.20

CERTIFICATION: B. Caylin

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 :
Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

Certificate Date: 07-MAY-91
Invoice No. : I9114296
P.O. Number :

CERTIFICATE OF ANALYSIS A9114296

SAMPLE DESCRIPTION	PREP CODE		Mn ppm (ICP)	Mo ppm (ICP)	Na20 % ICP	Ni ppm (ICP)	P ppm (ICP)	Pb ppm (ICP)	Sr ppm (ICP)	Ti02 % ICP	V ppm (ICP)	Zn ppm (ICP)
RL 168 045-050	205	294	70	4	0.89	< 1	370	235	100	0.29	7	150
RL 168 095-100	205	294	110	4	0.97	< 1	390	85	57	0.28	4	116
RL 168 145-150	205	294	180	4	1.64	< 1	400	50	80	0.27	5	114
RL 168 195-200	205	294	155	3	1.68	< 1	440	45	74	0.28	5	144
RL 168 245-250	205	294	415	5	1.90	1	450	285	136	0.29	4	238
RL 168 295-300	205	294	710	2	2.11	< 1	400	25	171	0.28	4	106
RL 168 345-350	205	294	240	3	0.74	< 1	420	115	62	0.28	5	166
RL 168 395-400	205	294	60	2	0.17	< 1	360	35	57	0.26	6	84
RL 168 445-450	205	294	180	3	0.48	< 1	330	25	75	0.26	3	78
RL 168 495-500	205	294	705	2	1.33	< 1	390	40	113	0.27	2	124
RL 168 545-550	205	294	65	2	0.15	2	170	25	85	0.14	2	100
RL 168 595-600	205	294	90	7	0.30	2	220	25	57	0.17	< 1	92
RL 168 645-650	205	294	25	3	0.16	1	120	50	59	0.08	< 1	80
RL 168 695-700	205	294	35	4	0.11	< 1	60	10	604	0.06	< 1	52
RL 169 045-050	205	294	110	3	0.24	2	160	110	71	0.27	6	100
RL 169 095-100	205	294	90	5	0.16	6	630	20	417	0.23	3	104
RL 169 145-150	205	294	165	3	0.22	2	580	105	401	0.26	< 1	124
RL 169 195-200	205	294	105	3	0.16	6	470	25	285	0.25	2	94
RL 169 245-250	205	294	115	2	0.18	1	400	65	127	0.26	2	90
RL 169 295-300	205	294	930	2	0.24	< 1	410	25	66	0.29	3	124
RL 169 345-350	205	294	130	3	0.19	2	320	50	179	0.20	2	114
RL 169 395-400	205	294	70	2	0.14	2	170	25	59	0.17	2	90
RL 169 445-450	205	294	60	2	0.16	1	650	25	66	0.45	16	100
RL 169 495-500	205	294	55	2	0.13	1	260	20	68	0.19	3	84
RL 169 545-550	205	294	40	3	0.13	1	220	30	76	0.18	3	70
RL 169 595-600	205	294	40	2	0.12	42	240	30	172	0.21	5	122
RL 169 645-650	205	294	80	2	0.15	6	110	20	95	0.08	< 1	114
RL 169 695-700	205	294	105	10	0.18	4	100	25	67	0.09	< 1	120
RL 169 745-750	205	294	320	3	1.60	1	160	30	99	0.17	< 1	114

CERTIFICATION: B. Caylin

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

INVOICE NUMBER I9115015

BILLING INFORMATION

Date: 22-MAY-91
Project: CHECKS
P.O. No.: NONE
Account: IZR

Comments:

Billing: For analysis performed on Certificate A9115015

Terms: Payment due on receipt of invoice 1.5% per month (18% per annum) charged on overdue accounts

Please Remit Payments to:

CHEMEX LABS, INC.
994 West Glendale Ave.,
Suite 7, Sparks, Nevada,
U.S.A. 89431

COPY

# OF SAMPLES	ANALYSED FOR CODE - DESCRIPTION	UNIT PRICE	SAMPLE PRICE	AMOUNT
8	214 - Received as pulp	0.00		
	998 - Au oz/T	8.75		
	385 - Ag oz/T	3.00	11.75	94.00

Total Cost $ 94.00

TOTAL PAYABLE (U.S.) $ 94.00

All Equinox

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

A9115015

Comments: ATTN: TIM KUHL

CERTIFICATE A9115015

LAC MINERALS U.S.A. INC

Project: CHECKS
P.O. # : NONE

Samples submitted to our lab in Sparks, NV.
This report was printed on 22-MAY-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	8	Received sample as pulp

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
998	8	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00
385	8	Ag oz/T: Aqua regia digestion	AAS	0.01	20.0

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

A9115015

Comments: ATTN: TIM KUHL

CERTIFICATE A9115015

LAC MINERALS U.S.A. INC

Project: CHECKS
P.O. # : NONE

Samples submitted to our lab in Sparks, NV.
This report was printed on 22-MAY-91.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
214	8	Received sample as pulp

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
998	8	Au oz/T: 1 assay ton	FA-AAS	0.001	20.00
385	8	Ag oz/T: Aqua regia digestion	AAS	0.01	20.0

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 : CHECKS
Comments: ATTN: TIM KUHL

Certificate Date: 22-MAY-91
Invoice No. : I9115015
P.O. Number : NONE

CERTIFICATE OF ANALYSIS A9115015

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	Ag oz/T
RL168 550-555	214	--	0.047	0.51
RL168 555-560	214	--	0.499	5.26
RL168 560-565	214	--	0.071	0.51
RL168 565-570	214	--	0.446	0.93
RL168 570-575	214	--	2.487	2.00
RL168 575-580	214	--	3.799	4.30
RL168 580-585	214	--	0.143	0.09
RL168 585-590	214	--	0.111	0.20

CERTIFICATION: Sandra M Adam

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 : CHECKS
Comments: ATTN: TIM KUHL

Certificate Date: 22-MAY-91
Invoice No. : I9115015
P.O. Number : NONE

CERTIFICATE OF ANALYSIS A9115015

SAMPLE DESCRIPTION	PREP CODE		Au oz/T	Ag oz/T
RL168 550-555	214	--	0.047	0.51
RL168 555-560	214	--	0.499	5.26
RL168 560-565	214	--	0.071	0.51
RL168 565-570	214	--	0.446	0.93
RL168 570-575	214	--	2.487	2.00
RL168 575-580	214	--	3.799	4.30
RL168 580-585	214	--	0.143	0.09
RL168 585-590	214	--	0.111	0.20

CERTIFICATION: Sandra M Adam

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: R91-10660.4 (COMPLETE)

DATE PRINTED: 30-APR-91
PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
Z2 RL168 385-390		0.004	0.08
Z2 RL168 390-395		0.005	0.09
Z2 RL168 395-400		0.003	0.05
.032 P4 BA4		0.030	0.12
Z2 RL168 400-405		0.004	0.07
Z2 RL168 405-410		<0.002	0.03
Z2 RL168 410-415		<0.002	<0.02
Z2 RL168 415-420		<0.002	0.03
Z2 RL168 420-425		<0.002	<0.02
Z2 RL168 425-430		0.003	0.05
Z2 RL168 430-435		<0.002	0.03
Z2 RL168 435-440		<0.002	0.03
Z2 RL168 440-445		<0.002	<0.02
Z2 RL168 445-450		<0.002	<0.02
Z2 RL168 450-455		0.004	0.09
Z2 RL168 455-460		0.006	0.11
Z2 RL168 460-465		<0.002	0.06
Z2 RL168 465-470		<0.002	0.09
Z2 RL168 470-475		0.004	0.12
Z2 RL168 475-480		0.006	0.07
Z2 RL168 480-485		<0.002	0.04
Z2 RL168 485-490		0.003	0.03
Z2 RL168 490-495		<0.002	<0.02
Z2 RL168 495-500		<0.002	<0.02
P4 BA5		<0.002	<0.02
Z2 RL168 500-505		<0.002	<0.02
Z2 RL168 505-510		<0.002	<0.02
Z2 RL168 510-515		0.003	0.03
Z2 RL168 515-520		<0.002	<0.02
Z2 RL168 520-525		0.019#	0.07 .012
Z2 RL168 525-530		<0.002	0.03
Z2 RL168 530-535		<0.002	0.06
Z2 RL168 535-540		<0.002	0.05
Z2 RL168 540-545		<0.002	0.07
Z2 RL168 545-550		0.013	0.78
Z2 RL168 550-555		0.056	0.41
Z2 RL168 555-560		0.484#	7.12 .619 Ave
Z2 RL168 560-565		0.071#	0.50 .088
Z2 RL168 565-570		0.451#	1.10# .862
Z2 RL168 570-575		2.657	3.31

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
Z2 RL168 575-580		5.312#	5.75# 6.103
Z2 RL168 580-585		0.101#	0.14 .126
Z2 RL168 585-590		0.311	0.54
Z2 RL168 590-595		0.021	0.07
Z2 RL168 595-600		0.047	0.08
.034 P4 BA6		0.035	0.23
Z2 RL168 600-605		0.023	0.06
Z2 RL168 605-610		0.024	0.09
Z2 RL168 610-615		0.062	0.12
Z2 RL168 615-620		0.038	0.14
Z2 RL168 620-625		0.054	0.08
Z2 RL168 625-630		0.029	0.05
Z2 RL168 630-635		0.088	0.14
Z2 RL168 635-640		0.016	0.05
Z2 RL168 640-645		0.100	0.13
Z2 RL168 645-650		0.014	0.06
Z2 RL168 650-655		0.014	0.05
Z2 RL168 655-660		0.018	0.05
Z2 RL168 660-665		0.014	0.05
Z2 RL168 665-670		0.023	0.06
Z2 RL168 670-675		0.024	0.06
Z2 RL168 675-680		0.023	0.07
Z2 RL168 680-685		0.011	0.04
Z2 RL168 685-690		0.025	0.08
Z2 RL168 690-695		0.075	0.11
Z2 RL168 695-700		0.044	0.07
.054 P4 BA7		0.058	0.05
Z2 RL168 700-705		0.025	0.06
Z2 RL168 705-710		0.031	0.06
Z2 RL168 710-715		0.014	0.09
Z2 RL168 715-720		0.041	0.08

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: R91-1066D.4 (COMPLETE)

DATE PRINTED: 30-APR-91
PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
RL168 0-5		<0.002	0.03
Duplicate		<0.002	<0.02
RL168 50-55		<0.002	0.04
Duplicate		<0.002	0.02
RL168 105-110		<0.002	<0.02
Duplicate		<0.002	<0.02
RL168 155-160		<0.002	<0.02
Prep Duplicate		<0.002	<0.02
Duplicate		<0.002	<0.02
RL168 205-210		<0.002	0.04
Duplicate		<0.002	0.04
RL168 210-215		<0.002	<0.02
Prep Duplicate		<0.002	<0.02
RL168 255-260		<0.002	<0.02
Duplicate		<0.002	0.02
RL168 310-315		<0.002	<0.02
Duplicate		<0.002	<0.02
RL168 360-365		0.005	0.10
Duplicate		0.005	0.10
RL168 380-385		0.005	0.09
Prep Duplicate		0.003	0.11
RL168 410-415		<0.002	<0.02
Duplicate		<0.002	0.03
RL168 460-465		<0.002	0.06
Duplicate		<0.002	0.06
RL168 515-520		<0.002	<0.02
Duplicate		<0.002	<0.02
RL168 560-565		0.071#	0.50
Duplicate		0.092	0.52
RL168 615-620		0.038	0.14
Duplicate		0.036	0.12
RL168 665-670		0.023	0.06
Duplicate		0.021	0.05
RL168 680-685		0.011	0.04
Prep Duplicate		0.012	0.05
		0.012	0.05
Duplicate		0.011	0.05

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702 (359-9330)

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-10660.4 (COMPLETE)

REFERENCE INFO: RL168 0-700

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

SUBMITTED BY: WALCK
DATE PRINTED: 30-APR-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	151	0.002 OPT		Fire Assay
2	Ag	Silver	151	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	144	2 -150	144	CRUSH,PULVERIZE -150	144
P PREPARED PULP	7	4 AS REC'D	7	AS RECEIVED, NO SP	7
				OVERWEIGHT/LBS	17
				EXCESS WETNESS/SAMP	11

NOTES: # indicates ERRATIC RESULTS

REMARKS: COARSE REJECT FOR EVERY 10TH SAMPLE WAS TAKEN
TO CHEMEX PER CLIENT.
#ERRATIC RESULTS OBSERVED ON THE FOLLOWING:
RL168 520-525--AU VALUE .012 OPT.
RL168 555-560--AU VALUE .619 OPT.
RL168 560-565--AU VALUE .088 OPT.
RL168 565-570--AG VALUE 2.52,.46 OPT AND AU
VALUE .862 OPT.
RL168 575-580--AG VALUE 3.96,7.00 OPT AND AU
VALUE 6.103 OPT. RL168 580-585 AU VALUE.1260PT

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

INVOICE TO: MR. TIM KUHL

Bondar-Clegg, Inc.
625 Spice Island Dr.
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(359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 10-MAY-91

REPORT: R91-10660.7 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	WT G	WT-150 G	WT+150 G	AU-150 OPT	Au+150 OPT	Au+150 -MG	Au TOT OPT
Z2 RL168 550-555		29.17	344.7	23.96	0.036	0.18	0.15	0.046
Z2 RL168 555-560		29.17	277.6	18.47	0.200	4.03	2.55	0.439
Z2 RL168 560-565		29.17	262.9	13.83	0.059	1.33	0.63	0.122
Z2 RL168 565-570		29.17	257.3	31.71	0.086	4.39	4.77	0.558
Z2 RL168 570-575		29.17	289.4	28.05	0.446	26.55	25.53	2.752
Z2 RL168 575-580		29.17	387.8	20.73	1.280	64.71	45.99	4.498
Z2 RL168 580-585		29.17	320.6	27.17	0.196	1.45	1.35	0.294
Z2 RL168 585-590		29.17	295.5	32.22	0.075	1.65	1.82	0.230

Bondar-Clegg, Inc.
625 Spice Island Dr.
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(359-9330)

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 10-MAY-91

REPORT: R91-10660.7 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	WT G	WT-150 G	WT+150 G	AU-150 OPT	Au+150 OPT	Au+150 MG	Au TOT OPT
RL168 550-555		29.17	344.7	23.96	0.036	0.18	0.15	0.046
Duplicate					0.031			

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(359-9330)

BONDAR-CLEGG

metallic Screens

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-10660.7 (COMPLETE)

REFERENCE INFO: RL168 550-590 ADDT'L ANALYSI

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

SUBMITTED BY: KUHI
DATE PRINTED: 10-MAY-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	WT Test Weight	8	0.01 G		Fire Assay
2	WT-150 -150 Pulp Weight	8	0.1 G		Fire Assay
3	WT+150 +150 Pulp Weight	8	0.01 G		Fire Assay
4	AU-150 Avg Gold In -150	8	0.002 OPT		Fire Assay
5	Au+150 Gold in +150 mesh.	8	0.01 OPT		Fire Assay
6	Au+150 Gold in +150 MESH	8	0.00 MG		Fire Assay
7	Au TOT Au in total sample.	8	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	8	2 -150	8	SAMPLE SPLIT	8

REPORT COPIES TO: MR. TIM KUHI

INVOICE TO: MR. TIM KUHI

Bondar-Clegg, Inc.
625 Spice Island Dr.
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(359-9330)

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 10 MAY 91

REPORT: R91-11660.7 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	WT G	WT-150 G	WT+150 G	AU-150 OPT	Au+150 OPT	Au+150 MG	Au TOT OPT
AU ASSAY STD		-	-	-	0.016	-	-	-
Number of Analyses		-	-	-	1	-	-	-
Mean Value		-	-	-	0.0160	-	-	-
Standard Deviation		-	-	-	-	-	-	-
Accepted Value		-	-	-	-	-	-	-

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-10660.4 (COMPLETE)

DATE PRINTED: 30-APR-91
PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT
PD SYN STD AU/AG		0.041	0.43
PD SYN STD AU/AG		0.041	0.40
Number of Analyses		2	2
Mean Value		0.0410	0.415
Standard Deviation		0.000000	0.0212
Accepted Value		0.040	0.40
Number of Analyses		-	-
Mean Value		-	-
Standard Deviation		-	-
Accepted Value		-	-
ANALYTICAL BLANK		<0.002	<0.02
ANALYTICAL BLANK		<0.002	<0.02
ANALYTICAL BLANK		<0.002	<0.02
ANALYTICAL BLANK		<0.002	<0.02
Number of Analyses		4	4
Mean Value		0.0010	0.010
Standard Deviation		0.000000	0.0000
Accepted Value		0.002	0.02
ASSAY STD		0.012	0.32
Number of Analyses		1	1
Mean Value		0.0120	0.320
Standard Deviation		-	-
Accepted Value		-	-
Number of Analyses		-	-
Mean Value		-	-
Standard Deviation		-	-
Accepted Value		-	-
Number of Analyses		-	-
Mean Value		-	-
Standard Deviation		-	-
Accepted Value		-	-

STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT
AG ASSAY		0.048	-
Number of Analyses		1	-
Mean Value		0.0480	-
Standard Deviation		-	-
Accepted Value		-	3.03

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11060.4 (COMPLETE)

DATE PRINTED: 30-APR-91
PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
Z2 RL168 0-5		<0.002	0.03
Z2 RL168 5-10		<0.002	0.04
Z2 RL168 10-15		<0.002	0.04
Z2 RL168 15-20		<0.002	0.03
Z2 RL168 20-25		<0.002	0.04
Z2 RL168 25-30		<0.002	0.05
Z2 RL168 30-35		<0.002	0.05
Z2 RL168 35-40		<0.002	0.05
Z2 RL168 40-45		0.004	0.10
Z2 RL168 45-50		<0.002	0.06
Z2 RL168 50-55		<0.002	0.04
Z2 RL168 55-60		<0.002	0.06
Z2 RL168 60-65		0.003	0.08
Z2 RL168 65-70		<0.002	0.06
Z2 RL168 70-75		<0.002	0.04
Z2 RL168 75-80		<0.002	0.07
Z2 RL168 80-85		0.002	0.10
Z2 RL168 85-90		<0.002	0.03
Z2 RL168 90-95		<0.002	0.03
Z2 RL168 95-100		<0.002	0.05
.054 P4 BA1		0.056	0.06
Z2 RL168 100-105		0.006	0.04
Z2 RL168 105-110		<0.002	<0.02
Z2 RL168 110-115		<0.002	<0.02
Z2 RL168 115-120		<0.002	<0.02
Z2 RL168 120-125		<0.002	<0.02
Z2 RL168 125-130		<0.002	<0.02
Z2 RL168 130-135		0.007	0.04
Z2 RL168 135-140		0.011	0.10
Z2 RL168 140-145		0.004	0.05
Z2 RL168 145-150		<0.002	0.04
Z2 RL168 150-155		<0.002	<0.02
Z2 RL168 155-160		<0.002	<0.02
Z2 RL168 160-165		<0.002	<0.02
Z2 RL168 165-170		<0.002	<0.02
Z2 RL168 170-175		<0.002	<0.02
Z2 RL168 175-180		0.005	0.04
Z2 RL168 180-185		<0.002	<0.02
Z2 RL168 185-190		<0.002	0.04
Z2 RL168 190-195		0.013	0.06
Z2 RL168 195-200		<0.002	<0.02
.046 P4 BA2		0.048	0.06
Z2 RL168 200-205		0.003	0.06
Z2 RL168 205-210		<0.002	0.04
Z2 RL168 210-215		<0.002	<0.02
Z2 RL168 215-220		<0.002	<0.02
Z2 RL168 220-225		<0.002	<0.02
Z2 RL168 225-230		<0.002	<0.02
Z2 RL168 230-235		<0.002	<0.02
Z2 RL168 235-240		<0.002	<0.02
Z2 RL168 240-245		<0.002	<0.02
Z2 RL168 245-250		<0.002	<0.02
Z2 RL168 250-255		<0.002	<0.02
Z2 RL168 255-260		<0.002	<0.02
Z2 RL168 260-265		<0.002	<0.02
Z2 RL168 265-270		<0.002	<0.02
Z2 RL168 270-275		<0.002	<0.02
Z2 RL168 275-280		<0.002	<0.02
Z2 RL168 280-285		<0.002	<0.02
Z2 RL168 285-290		<0.002	<0.02
Z2 RL168 290-295		<0.002	<0.02
Z2 RL168 295-300		<0.002	<0.02
.032 P4 BA3		0.030	0.14
Z2 RL168 300-305		<0.002	<0.02
Z2 RL168 305-310		<0.002	<0.02
Z2 RL168 310-315		<0.002	<0.02
Z2 RL168 315-320		<0.002	<0.02
Z2 RL168 320-325		<0.002	<0.02
Z2 RL168 325-330		<0.002	<0.02
Z2 RL168 330-335		<0.002	<0.02
Z2 RL168 335-340		<0.002	<0.02
Z2 RL168 340-345		<0.002	<0.02
Z2 RL168 345-350		<0.002	<0.02
Z2 RL168 350-355		0.002	0.06
Z2 RL168 355-360		0.003	0.10
Z2 RL168 360-365		0.005	0.10
Z2 RL168 365-370		0.004	0.09
Z2 RL168 370-375		<0.002	0.06
Z2 RL168 375-380		0.005	0.08
Z2 RL168 380-385		0.005	0.09

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 : CHECKS
Comments: ATTN: TIM KUHL

Certificate Date: 22-MAY-91
Invoice No. : I9115015
P.O. Number : NONE
Account : IZR

CERTIFICATE OF ANALYSIS A9115015

SAMPLE	PREP CODE		Au oz/T	Ag oz/T								
RL168 550-555	214	--	0.047	0.51								
RL168 555-560	214	--	0.499	5.26								
RL168 560-565	214	--	0.071	0.51								
RL168 565-570	214	--	0.446	0.93								
RL168 570-575	214	--	2.487	2.00								
RL168 575-580	214	--	3.799	4.30								
RL168 580-585	214	--	0.143	0.09								
RL168 585-590	214	--	0.111	0.20								

CERTIFICATION: Thomas Vonk

To File Drill 168

BOYLES-WELNAV
ELKO, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* **LAC MINERALS** *
****

JOB NUMBER: 029-0313-12CCGY

HOLE NUMBER: RL #168

LOCATION: ROSEBUD

SURVEY DATE: 4-25-91

SURVEY ENGINEER: PHIL GRAFFT

GYRO REFERENCE BEARING: 043-00

********** DEPTH MEASURED IN FEET **********

COMMENTS:

****
****
*** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
* AND IS SUPPORTED BY ACTUAL FIELD DATA! *
**
**
**
**
****
****

BOYLES-WELNAV
ELKO, NEVADA

JOB NUMBER: 029-0313-12CCGY HOLE NUMBER: RL #168

INRUN SURVEY
BY MINIMUM CURVATURE

MEAS. DEPTH	VERT. DEPTH	VERT. SECT.	INCL	DIRECTION AZIMUTH	COORDINATES NORTH/SOUTH	EAST/WEST	D-LEG /100	D-LEG /CL	STATION DISP.		DISPLACEMENT DIRECTION
50.0	50.00	0.42	-88.68	054.55	0.33 N	0.47 E	2.64	1.32	0.58	AT	054.55
100.0	99.98	1.31	-88.80	034.12	1.10 N	1.23 E	0.92	0.46	1.65	AT	048.20
150.0	149.97	2.32	-88.80	010.20	2.05 N	1.62 E	0.99	0.50	2.61	AT	038.29
200.0	199.96	3.43	-88.62	001.13	3.17 N	1.72 E	0.54	0.27	3.61	AT	028.54
250.0	249.95	4.61	-88.65	359.72	4.36 N	1.73 E	0.09	0.05	4.69	AT	021.67
300.0	299.93	5.67	-88.88	002.75	5.44 N	1.75 E	0.48	0.24	5.71	AT	017.87
350.0	349.92	6.67	-88.77	024.22	6.41 N	2.00 E	0.90	0.45	6.72	AT	017.29
400.0	399.91	7.83	-88.54	019.18	7.50 N	2.43 E	0.52	0.26	7.89	AT	017.91
450.0	449.89	9.08	-88.47	030.62	8.68 N	2.97 E	0.61	0.31	9.18	AT	018.92
500.0	499.88	10.29	-88.65	020.55	9.81 N	3.52 E	0.62	0.31	10.42	AT	019.75
550.0	549.87	11.40	-88.78	016.47	10.87 N	3.88 E	0.32	0.16	11.54	AT	019.64
600.0	599.85	12.46	-88.67	347.03	11.94 N	3.90 E	1.31	0.66	12.56	AT	018.08
650.0	649.82	14.07	-87.41	352.48	13.63 N	3.62 E	2.54	1.27	14.10	AT	014.88
700.0	699.77	16.26	-87.28	351.85	15.92 N	3.31 E	0.27	0.13	16.26	AT	011.73
720.0	719.75	17.15	-87.37	356.00	16.85 N	3.21 E	1.07	0.21	17.15	AT	010.77

```
*************************************************************
*                          ********                         *
*      THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF          *
*                          ********                         *
*   720.0 FEET EQUALS     17.15   FEET AT  010.77           *
*                          ********                         *
*************************************************************
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