60001403

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-178
AUTHOR	P. Grafft; C. Walck; T. Kuhl; N. Whitten; B. Thomas; G. MacVeigh
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 850'; handwritten notes; directional survey 37p.

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:	Mah	
	Initials	Date
SCANNED:		
	Initials	Date

Revised: 1/22/08

Drill Log R1-178
Rosebud

66001403 4010

60001403

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-178 TOTAL DEPTH 850 LOGGED BY RKS

Date started 5/8/91

Date completed 5/17/91

Initial bearing –

Initial inclination -90

Elevation 5264.9

Collar coordinates:

N 2203874.0

E 482339.2

Contractor: Stevens

Drill Type: RC

Hole Size: 5 1/4

Drilling Conditions: No Bueno

Footage: Wet / Dry 0 - 210 dry

210 - 850 wet

Comments: Scram 1200 N.

Costly hole, hope it's worth it. 1 hammer bit & 3 tri-cone bits

3 cones in bottom of the hole

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-178

Page 1 of 2

LOGGED BY RKS

	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 - Pad Fill	<	<		
05															<			
10															<			
15														Bedrock at 15'				
									lt Green					F. grn tuff - Cr(?)	.003			
20									Green org									
25															.002	.03		
30															.011	<		
									Green org lav									
35															.003	<		
40															.003	.03		
Bx 45														Trace Bx	.004	<		
Sm fault(?) 50									pkw org lt Grey					minor Bx	.003	<		
55													.1	oxidec Relict sulfide (1st sulfide show)	<	.13		
									lt Grey Green									
60													.5		.004	.04		
65													.1		.003	.04		
70													.5		.004	.04		
75													.5		.003	.03		
80													.1		.003	.04		
85													.1		<	.04		
90									Pink				.5	(minor Qtz vn.)	.003	.04		
95															.003	.04		
Bx 100									Flesh lt Grey						.003	.04		

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DRILL HOLE RL-178

Page 2 of 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.
									lt Grey lt Green flesh				.1	SAA- Ct F gm tuff w/ sm phenos of chlor. alt Biot w/ plag	.003	.03		
105									lt Grey lt Green						<	<		
110									lt Grey						.009	.06		
115									lt Grey org lt Green					50% oxidized	.005	.05		
120														25% "	.005	.06		
125									lt Grey lt Green-Gr						<	.03		
130													.5	(trace Kaolin vn)	.004	.05		
135									lt Grey Grey				.5		.005	.07		
140									lt Grey lt Grn Gry				.1		.006	.03		
145													.5		.005	.07		
150													.1		.003	.04		
155															.003	.05		
160															.003	.03		
165													.5	(small H_2O seep) (very damp)	<	<		
H_2O seep 170													.1		.004	.05		
175													.1	(w/ trace Kaol vn)	.003	.04		
180									lt Grey				.1		.003	.08		
185									lt Grey					(staying ahead of H_2O)	.003	.06		
190															<	.04		
195									lt Grey lt Grg-Brn						<	.03		
200																		

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DRILL HOLE RL-178

Page 3 of 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.
									Lt Grey Lt Grey-Brn				.1	SAA-G	.004	.04		
205													.5	H_2O caught up to us; H_2O; dry wet split	.005	.08		
210																		
215															.013	.10		
220															.006	.06		
225															.009	.06		
230															.006	.05		
235															.011	.07		
240									Lt Grey Lt Grn					(u/slicks)	.006	.17		
245															.004	.04		
250									Lt Grey Grey					(fract.)	.004	.07		
255															.003	.04		
260															.009	.04		
265									Green					contact	.005	.03		
270									Green Lt Grey Grey					Bud - lith. lapp. tuff	.003	.04		
275															.013	.07		
280									Green Grey wing						.026#	.22		
285															.006	.07		
290															.005	.08		
295													1		.037#	.10		
300													.5		.008	.07		

H_2O (205–210)
inner fault (240)
frost (250–265)
$>H_2O$ By (260–265)
contact (265–270)

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DRILL HOLE RL-178

Page 4 of 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.
									Green wht tr grey				.5	SAA - Bud tuff	.013	.07		
305																		
310															.009	.07		
315															.004	.05		
320															.003	.03		
325															<	<		
330															.010	.06		
335															.004	.03		
340															.005	.06		
345									tr Green wht					(Strg silfd)	.015#	.07		
350														(slight incr. sulf.)	.006	<		
355															.030	<		
360									tr Green						.067#	<		
365									tr Green					5/8 5/9	.007	<		
370									tr Green Green wht						.016	.04		
375															.010	.03		
380															.004	<		
385															.003	.19		
390															.003	<		
395															.007	.03		
400															<	<		

Frax

LAC MINERALS (U.S.A.) INC.
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DRILL HOLE RL-178

Page 5 of 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.
		*							lt Green Green wht				.1	SAA - Bud Tuff	.010	.07		
405		*													.003	<		
410															.015	<		
415		*											.5		.006	.06		
420		*											.5		.003	.03		
425		*													.015	.03		
430		*													.014#	<		
435		*													.016	.07		
440		*													.031	.04		
445									Peach Flesh Green wht					Fine Grn Tuff marker Bed	.004	.07		
450														TMB	.003	<		
455									Peach red pink Grey						.004	<		
460														(w/ trace Barite)	.003	.25		
465															.014	.27		
470									lt Grey Grey wht					H_2O test 75 GPM	.008	<		
475															<	<		
480															.003	.05		
485															<	<		
490															.005	.45		
495															.005	.93		
500																		

Mas agua BX

poster

major Frag/BX

Bx frag

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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.
Breccia fracture									lt Grey wht Grey				.5	SAA - TMB (Brecciated: slfd)	.005	.74		
505															.003	.08		
510														W/ minor specs of a Dk Grey to Grey-red silver mineral (?)	.003	.25		
frag 515															.003	.11		
520									Green					contact at 524' 5/9 5/14 Bud	.003	.05		
contact 525									Green wht Peach					lith lapilli tuff	.004	.04		
530															.004	.07		
535															.004	.07		
540															.009	.07		
545									Green wht trace Peach					85 GPM	.003	.05		
550															.003	.03		
555															.005	.01		
560									Peach Flesh wht Green						.009	.07		
565									lt Green wht					(Hard drilling)	.003	.05		
570														(clay alt zone)	.006	.10	.009	
575									Green lt Green wht					(Hard drilling again)	.006	.16		
580														(sm Bx zone) (sm clay alt zone)	.039	.11		
minor Bx 585															.003	.11		
590															.010	.09		
595														5/14 5/15 trip pipe → Rck Bit	.003	.05		
600																		

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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.
														Rck Bit 5/15				
605									lt Green Green wht				.1	SAA - Bud Tuff	.004	.06		
610									↓				↓	↓	.009	.07		
615									Green wht				↓	(Finer Grn lith tuff may be in LBT(?))	.015	.07		
620									↓				↓	(w/ Kaolin un ~1%)	.006	.09		
625									Green-Olive wht Peach-red				.5	↓	.012	.09	.009	
Contact 630									↓				.5	LBT(?) Fine grn lith tuff w/ phenos and frags of Phyllite	.007	.08		
635									Peach lt Grey lt Green				↓	↓	.013	.16		
640									↓				↓	↓	.008	.13		
645									↓				↓	Fn grn lith tuff	.009	.12		
650									↓				↓	↓	.005	.08		
655									↓				↓	↓	.005	.08		
minor Fray 660									↓				↓	↓	.007	.11		
665									↓				↓	100 GPM	.007	.11		
670									Peach Flesh lt Grey				↓	minor Bx	.012	.10		
Fray Fault 675									↓				↓	↓ (w/ wht clay gouge)	.011	.12	.009	
680									Flesh Green wht				↓	↓	.004	.08		
685									Green lt Green wht				↓	↓	.017	.10		
Fault 690									↓				↓	↓ (w/ Drk Grey Clay Gouge)	.013	.09		
695									↓				↓	↓ Bud like unit	.011	.07		
700									↓				↓	↓	.005	.07		

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DRILL HOLE RL-178

Page 8 of 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.
									Green lt Green wht				.5	SAA- LBT	.007	.05		
105															.006	.05		
110															.003	.06		
115														Some Px's look as if they were sheared	.005	.07		
120	5R f(?)								lt Grey wht. Grey					Very fine grn tuff may be Dozer (w/minor Ruby Ag) Bit change at 3:30 pm may have lost a cone 5/15 5/16 1st cone: 2' Broke Hydraulic Ram trip again froze cone	.019	.19	.032	
125									lt Grey wht Grey lt Olive						.010	.06		
130															.012	.05		
135															.009	.12		
140														(Grad incr in slfd)	.004	<		
145														(micro - Qtz vn incr.)	.023	.05		
150															.005	.04		
155															.017	.04		
160														5/16 5/17	.022	.05		
165															.019	.03		
170															<	<	<	
175									lt Grey Peach lt Olive-Brn					(micro Qtz vn)	.005	.03		
180														(w/~2% wht Qtz)	.027	.05		
185															.038	.09		
190									lt Grey lt Grey Olive					(w/ Stringer dissem sulf.)	.013	.06		
195															.009	.04		
200																		

5m Shear zone

strong color change

minor Bx

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DRILL HOLE RL-178

Page 9 of 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.
		x							lt Grey lt Grey-Olive				.5	SAA - Dozer Tuff (w/ Cinnabar (?))	.006	.04		
805		x							& Peach-red					(slight incr in dissem sulf.)	.011	.04		
810		x x							lt Grey Peach lt Olive					(w/ micro-Qtz vn & vn Bx)	.003	.03		
815		x x x x													.004	.03		
820		x x x												(w/ micro-vn)				
825		x x x																
830		x x x																
835		x x x																
840		x x x																
845		x x x x x x												(strong slfd & Qtz vn				
850														TD at 4:45pm				
855																		
860														Hard to TD due to Froze Bit!				
65																		
70														3 Cones left in the bottom of the hole!				
75																		
80																		
85																		
90																		
95																		
00																		

stronger alt.

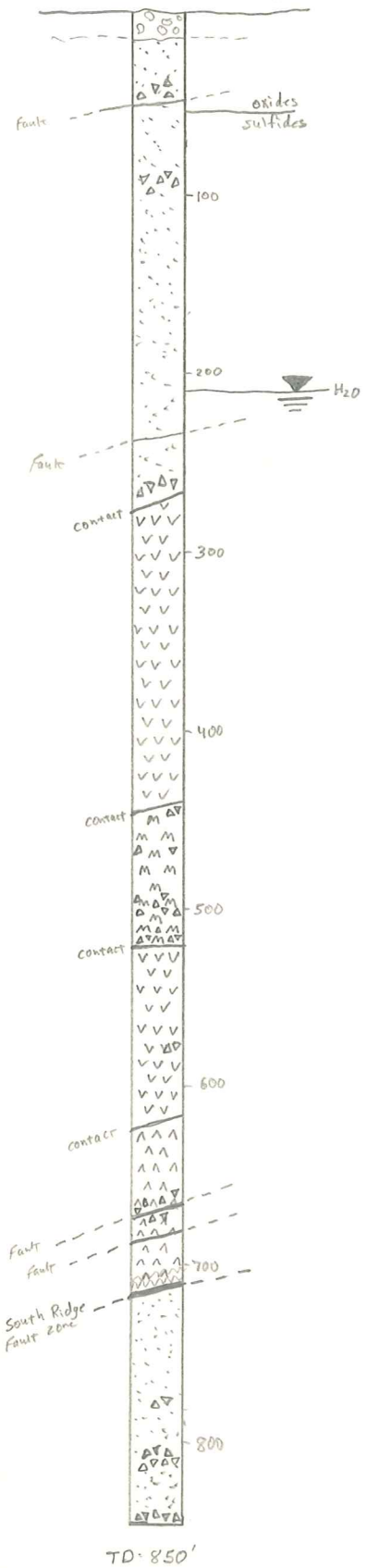
minor Bx

Bx

samples lost -- cat ran over them!

RL-178

Section 1200 NE; 430 SE



0-15'	OB - Qal
15' - 265'	Chocolate tuff
265' - 447'	Bud tuff
447' - 524'	Tuff Marker Bed (T.M.B.)
524' - 627'	Bud tuff
627' - 715'	Lower Bud Tuff (LBT)
715' - 720'	South Ridge Fault Zone
720 - 850	Dozer Tuff & Dozer tuff Breccia

10954

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

BONDAR-CLEGG

Geochemical Lab Report

JUN 7 1991

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-10954.4 (COMPLETE)

REFERENCE INFO: RL178 525-850

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

SUBMITTED BY: STOFBERI
DATE PRINTED: 4-JUN-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	61	0.002 OPT		Fire Assay
2	Ag	Silver	61	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	59	2 -150	59	CRUSH,PULVERIZE -150	59
P PREPARED PULP	2	4 AS REC'D	2	AS RECEIVED, NO SP	2

REMARKS: **CORRECTED REPORT FOR ONE MISSING RESULT**

REPORT COPIES TO: MS. CYNDIE WALCK
~~MR. TIM KUHI~~
MR. TIM KUHI

INVOICE TO: MR. TIM KUHI

Nicole Written

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: 4-JUN-91

REPORT: R91-10954.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT	STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT
ASSAY STD		0.014	0.26				
ASSAY STD		0.014	-				
Number of Analyses		2	1				
Mean Value		0.0140	0.260				
Standard Deviation		0.00000	-				
Accepted Value		0.012	0.24				
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)

Controlled TOK

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

JUN 5 1991

REPORT: R91-10954.4 (COMPLETE)

REFERENCE INFO: RL178 525-850

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

SUBMITTED BY: STOFBERI
DATE PRINTED: 3-JUN-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	60	0.002 OPT		Fire Assay
2	Ag	Silver	60	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	59	2 -150	59	CRUSH,PULVERIZE -150	59
P PREPARED PULP	2	4 AS REC'D	2	AS RECEIVED, NO SP	2

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

INVOICE TO: MR. TIM KUHL

Nicole Nutter

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: 3-JUN-91

REPORT: R91-10954.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
Z2 RL-178 525-530		0.004	0.04
Z2 RL-178 530-535		0.004	0.07
Z2 RL-178 535-540		0.004	0.07
Z2 RL-178 540-545		0.009	0.07
Z2 RL-178 545-550		0.003	0.05
Z2 RL-178 550-555		0.003	0.03
Z2 RL-178 555-560		0.005	0.07
Z2 RL-178 560-565		0.009	0.07
Z2 RL-178 565-570		0.003	0.05
Z2 RL-178 570-575		0.006	0.10
Z2 RL-178 575-580		0.006	0.16
Z2 RL-178 580-585		0.039	0.11
Z2 RL-178 585-590		0.003	0.11
Z2 RL-178 590-595		0.010	0.09
Z2 RL-178 595-600		0.003	0.05
Z2 RL-178 600-605		0.004	0.06
Z2 RL-178 605-610		0.009	0.07
Z2 RL-178 610-615		0.015	0.07
Z2 RL-178 615-620		0.006	0.09
Z2 RL-178 620-625		0.012	0.09
P4 BA-61		0.036	0.18
Z2 RL-178 625-630		0.007	0.08
Z2 RL-178 630-635		0.013	0.16
Z2 RL-178 635-640		0.008	0.13
Z2 RL-178 640-645		0.009	0.12
Z2 RL-178 645-650		0.005	0.08
Z2 RL-178 650-655		0.005	0.08
Z2 RL-178 655-660		0.007	0.11
Z2 RL-178 660-665		0.017	0.11
Z2 RL-178 665-670		0.012	0.10
Z2 RL-178 670-675		0.011	0.12
Z2 RL-178 675-680		0.004	0.08
Z2 RL-178 680-685		0.017	0.10
Z2 RL-178 685-690		0.013	0.09
Z2 RL-178 690-695		0.011	0.07
Z2 RL-178 695-700		0.005	0.07
Z2 RL-178 700-705		0.007	0.05
Z2 RL-178 705-710		0.006	0.05
Z2 RL-178 710-715		0.003	0.06
Z2 RL-178 715-720		0.005	0.07
Z2 RL-178 720-725		0.019	0.19
P4 BA-62			
Z2 RL-178 725-730		0.010	0.06
Z2 RL-178 730-735		0.012	0.05
Z2 RL-178 735-740		0.009	0.12
Z2 RL-178 740-745		0.004	<0.02
Z2 RL-178 745-750		0.023	0.05
Z2 RL-178 750-755		0.005	0.04
Z2 RL-178 755-760		0.017	0.04
Z2 RL-178 760-765		0.022	0.05
Z2 RL-178 765-770		0.019	0.03
Z2 RL-178 770-775		<0.002	<0.02
Z2 RL-178 775-780		0.005	0.03
Z2 RL-178 780-785		0.027	0.05
Z2 RL-178 785-790		0.038	0.09
Z2 RL-178 790-795		0.013	0.06
Z2 RL-178 795-800		0.009	0.04
Z2 RL-178 800-805		0.006	0.04
Z2 RL-178 805-810		0.011	0.04
Z2 RL-178 810-815		0.003	0.03
Z2 RL-178 815-820		0.004	0.03

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 3-JUN-91

REPORT: R91-10954.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT	STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT
ASSAY STD		0.014	0.26				
ASSAY STD		0.014	-				
Number of Analyses		2	1				
Mean Value		0.0140	0.260				
Standard Deviation		0.00000	-				
Accepted Value		0.012	0.24				
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				

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Geochemical Lab Report

DATE PRINTED: 3-JUN-91

REPORT: R91-10954.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
RL-178 545-550		0.003	0.05				
Duplicate		0.003	0.07				
RL-178 595-600		0.003	0.05				
Duplicate		0.003	0.07				
RL-178 615-620		0.006	0.09				
Prep Duplicate		0.005	0.11				
RL-178 650-655		0.005	0.08				
Duplicate		0.005	0.08				
RL-178 700-705		0.007	0.05				
Duplicate		0.010	0.06				
RL-178 745-750		0.023	0.05				
Prep Duplicate		0.020	0.06				
RL-178 750-755		0.005	0.04				
Duplicate		0.005	0.04				
RL-178 800-805		0.006	0.04				
Duplicate		0.005	0.03				

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 22-MAY-91

REPORT: R91-10844.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT
AU ASSAY STD		0.144	-
Number of Analyses		1	-
Mean Value		0.1440	-
Standard Deviation		-	-
Accepted Value		0.150	-
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	-
GEOCHEM STD 1 (1989)		-	1.24
GEOCHEM STD 1 (1989)		-	1.23
GEOCHEM STD 1 (1989)		-	1.31
GEOCHEM STD 1 (1989)		-	1.30
Number of Analyses		-	4
Mean Value		-	1.272
Standard Deviation		-	0.0424
Accepted Value		-	1.05
AG ASSAY		-	2.98
AG ASSAY		-	3.00
AG ASSAY		-	2.89
AG ASSAY		-	3.15
Number of Analyses		-	4
Mean Value		-	3.006
Standard Deviation		-	0.1071
Accepted Value		-	3.03
AU ASSAY STD		0.015	-
Number of Analyses		1	-
Mean Value		0.0150	-
Standard Deviation		-	-
Accepted Value		0.015	-

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 21-MAY-91

REPORT: R91-10844.4 (PARTIAL)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT
AU ASSAY STD		0.144
Number of Analyses		1
Mean Value		0.1440
Standard Deviation		-
Accepted Value		0.150
ANALYTICAL BLANK		<0.002
ANALYTICAL BLANK		<0.002
ANALYTICAL BLANK		<0.002
Number of Analyses		3
Mean Value		0.0010
Standard Deviation		0.00000
Accepted Value		0.002
Number of Analyses		-
Mean Value		-
Standard Deviation		-
Accepted Value		-
Number of Analyses		-
Mean Value		-
Standard Deviation		-
Accepted Value		-
AU ASSAY STD		0.015
Number of Analyses		1
Mean Value		0.0150
Standard Deviation		-
Accepted Value		0.015

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 21-MAY-91

REPORT: R91-10844.4 (PARTIAL)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT
Z2 RL-178 385		0.003
Z2 RL-178 390		0.007
Z2 RL-178 395		<0.002
.033 P4 BA-59		0.035
Z2 RL-178 400		0.010
Z2 RL-178 405		0.003
Z2 RL-178 410		0.015
Z2 RL-178 415		0.006
Z2 RL-178 420		0.003
Z2 RL-178 425		0.015
Z2 RL-178 430		0.014
Z2 RL-178 435		0.016
Z2 RL-178 440		0.031
Z2 RL-178 445		0.004
Z2 RL-178 450		0.003
Z2 RL-178 455		0.004
Z2 RL-178 460		0.003
Z2 RL-178 465		0.014
Z2 RL-178 470		0.008
Z2 RL-178 475		<0.002
Z2 RL-178 480-485		0.003
Z2 RL-178 485-490		<0.002
Z2 RL-178 490-495		0.005
Z2 RL-178 495-500		0.005
.039 P4 BA-60		0.033
Z2 RL-178 500-505		0.005
Z2 RL-178 505-510		0.003
Z2 RL-178 510-515		0.003
Z2 RL-178 515-520		0.003
Z2 RL-178 520-525		0.003

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Geochemical Lab Report

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REPORT: R91-10844.4 (PARTIAL)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT
Z2 RL-178 0-5		<0.002	Z2 RL-178 195-200		<0.002
Z2 RL-178 5-10		<0.002	.032 P4 BA-57		0.031
Z2 RL-178 10-15		<0.002	Z2 RL-178 200-205		0.004
Z2 RL-178 15-20		0.003	Z2 RL-178 205-210		0.005
Z2 RL-178 20-25		0.002	Z2 RL-178 210-215		0.013
Z2 RL-178 25-30		0.011	Z2 RL-178 215-220		0.006
Z2 RL-178 30-35		0.003	Z2 RL-178 220-225		0.004
Z2 RL-178 35-40		0.003	Z2 RL-178 225-230		0.006
Z2 RL-178 40-45		0.004	Z2 RL-178 230-235		0.011
Z2 RL-178 45-50		0.003	Z2 RL-178 235-240		0.006
Z2 RL-178 50-55		<0.002	Z2 RL-178 240-245		0.004
Z2 RL-178 55-60		0.004	Z2 RL-178 245-250		0.004
Z2 RL-178 60-65		0.003	Z2 RL-178 250-255		0.003
Z2 RL-178 65-70		0.004	Z2 RL-178 255-260		0.004
Z2 RL-178 70-75		0.003	Z2 RL-178 260-265		0.005
Z2 RL-178 75-80		0.003	Z2 RL-178 265-270		0.003
Z2 RL-178 80-85		<0.002	Z2 RL-178 270-275		0.013
Z2 RL-178 85-90		0.003	Z2 RL-178 275-280		0.026# .020
Z2 RL-178 90-95		0.003	Z2 RL-178 280-285		0.006
Z2 RL-178 95-100		0.003	Z2 RL-178 285-290		0.005
.019 P4 BA-56		0.021	Z2 RL-178 290-295		0.037#
Z2 RL-178 100-105		0.003	Z2 RL-178 295-300		0.008
Z2 RL-178 105-110		<0.002	.046 P4 BA-58		0.051 .060
Z2 RL-178 110-115		0.009	Z2 RL-178 300-305		0.013
Z2 RL-178 115-120		0.005	Z2 RL-178 305-310		0.009
Z2 RL-178 120-125		0.005	Z2 RL-178 310-315		0.004
Z2 RL-178 125-130		<0.002	Z2 RL-178 315-320		0.003
Z2 RL-178 130-135		0.004	Z2 RL-178 320-325		<0.002
Z2 RL-178 135-140		0.005	Z2 RL-178 325-330		0.010
Z2 RL-178 140-145		0.006	Z2 RL-178 330-335		0.004
Z2 RL-178 145-150		0.005	Z2 RL-178 335-340		0.005
Z2 RL-178 150-155		0.003	Z2 RL-178 340-345		0.015#
Z2 RL-178 155-160		0.003	Z2 RL-178 345-350		0.006
Z2 RL-178 160-165		0.003	Z2 RL-178 350-355		0.030
Z2 RL-178 165-170		<0.002	Z2 RL-178 355-360		0.067# .081
Z2 RL-178 170-175		0.004	Z2 RL-178 360-365		0.007
Z2 RL-178 175-180		0.003	Z2 RL-178 365-370		0.016
Z2 RL-178 180-185		0.003	Z2 RL-178 370-375		0.010
Z2 RL-178 185-190		0.003	Z2 RL-178 375-380		0.004
Z2 RL-178 190-195		<0.002	Z2 RL-178 380-385		0.003

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RL178
0-525

Geochemical Lab Report

MAY 23 1991

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-10844.4 (PARTIAL)

REFERENCE INFO: RL178 0-200

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

SUBMITTED BY: KUHL
DATE PRINTED: 21-MAY-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	110	0.002 OPT		Fire Assay

RESULTS TO FOLLOW FOR: Ag

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	105	2 -150	105	CRUSH,PULVERIZE -150	40
P PREPARED PULP	5	4 AS REC'D	5	OVERWEIGHT/LBS	394
				EXCESS WEINESS/SAMP	64
				AS RECEIVED, NO SP	5

NOTES: # indicates ERRATIC RESULTS

REMARKS: #ERRATIC RESULTS OBSERVED ON THE FOLLOWING:
RL-178 275-280--.012 OPT.
RL-178 290-295--.124 OPT.
RL-178 340-345--.010 OPT.
RL-178 355-360--.015,.010 OPT.
RL-178 430--.011,.024,.002 OPT.

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

INVOICE TO: MR. TIM KUHL

Kenneth D. Gammon

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 21-MAY-91

REPORT: R91-10844.4 (PARTIAL)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT
RL-178 20-25		0.002
Duplicate		0.003
RL-178 70-75		0.003
Duplicate		0.003
RL-178 125-130		<0.002
Duplicate		<0.002
RL-178 155-160		0.003
Prep Duplicate		0.003
RL-178 175-180		0.003
Duplicate		0.003
RL-178 225-230		0.006
Duplicate		0.007
RL-178 275-280		0.026#
Duplicate		0.027
RL-178 290-295		0.037#
Prep Duplicate		0.016
RL-178 330-335		0.004
Duplicate		0.003
RL-178 375-380		0.004
Duplicate		0.004
RL-178 390		0.007
Prep Duplicate		0.004
RL-178 430		0.014#
Duplicate		0.024
RL-178 480-485		0.003
Duplicate		0.003

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

RL178
525-820

Geochemical Lab Report

JUN 7 1991

REPORT: R91-10954.4 (COMPLETE)

REFERENCE INFO: RL178 525-850

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

SUBMITTED BY: STOHBERI
DATE PRINTED: 4-JUN-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	61	0.002 OPT		Fire Assay
2	Ag	Silver	61	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	59	2 -150	59	CRUSH,PULVERIZE -150	59
P PREPARED PULP	2	4 AS REC'D	2	AS RECEIVED, NO SP	2

REMARKS: **CORRECTED REPORT FOR ONE MISSING RESULT**

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

INVOICE TO: MR. TIM KUHL

Nicole Whitten

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 4-JUN-91

REPORT: R91-10954.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
Z2 RL-178 525-530		0.004	0.04
Z2 RL-178 530-535		0.004	0.07
Z2 RL-178 535-540		0.004	0.07
Z2 RL-178 540-545		0.009	0.07
Z2 RL-178 545-550		0.003	0.05
Z2 RL-178 550-555		0.003	0.03
Z2 RL-178 555-560		0.005	0.07
Z2 RL-178 560-565		0.009	0.07
Z2 RL-178 565-570		0.003	0.05
Z2 RL-178 570-575		0.006	0.10
Z2 RL-178 575-580		0.006	0.16
Z2 RL-178 580-585		0.039	0.11
Z2 RL-178 585-590		0.003	0.11
Z2 RL-178 590-595		0.010	0.09
Z2 RL-178 595-600		0.003	0.05
Z2 RL-178 600-605		0.004	0.06
Z2 RL-178 605-610		0.009	0.07
Z2 RL-178 610-615		0.015	0.07
Z2 RL-178 615-620		0.006	0.09
Z2 RL-178 620-625		0.012	0.09
P4 BA-61		0.036	0.18
Z2 RL-178 625-630		0.007	0.08
Z2 RL-178 630-635		0.013	0.16
Z2 RL-178 635-640		0.008	0.13
Z2 RL-178 640-645		0.009	0.12
Z2 RL-178 645-650		0.005	0.08
Z2 RL-178 650-655		0.005	0.08
Z2 RL-178 655-660		0.007	0.11
Z2 RL-178 660-665		0.017	0.11
Z2 RL-178 665-670		0.012	0.10
Z2 RL-178 670-675		0.011	0.12
Z2 RL-178 675-680		0.004	0.08
Z2 RL-178 680-685		0.017	0.10
Z2 RL-178 685-690		0.013	0.09
Z2 RL-178 690-695		0.011	0.07
Z2 RL-178 695-700		0.005	0.07
Z2 RL-178 700-705		0.007	0.05
Z2 RL-178 705-710		0.006	0.05
Z2 RL-178 710-715		0.003	0.06
Z2 RL-178 715-720		0.005	0.07
Z2 RL-178 720-725		0.019	0.19
P4 BA-62		0.020	0.08
Z2 RL-178 725-730		0.010	0.06
Z2 RL-178 730-735		0.012	0.05
Z2 RL-178 735-740		0.009	0.12
Z2 RL-178 740-745		0.004	<0.02
Z2 RL-178 745-750		0.023	0.05
Z2 RL-178 750-755		0.005	0.04
Z2 RL-178 755-760		0.017	0.04
Z2 RL-178 760-765		0.022	0.05
Z2 RL-178 765-770		0.019	0.03
Z2 RL-178 770-775		<0.002	<0.02
Z2 RL-178 775-780		0.005	0.03
Z2 RL-178 780-785		0.027	0.05
Z2 RL-178 785-790		0.038	0.09
Z2 RL-178 790-795		0.013	0.06
Z2 RL-178 795-800		0.009	0.04
Z2 RL-178 800-805		0.006	0.04
Z2 RL-178 805-810		0.011	0.04
Z2 RL-178 810-815		0.003	0.03
Z2 RL-178 815-820		0.004	0.03

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DATE PRINTED: 4-JUN-91

REPORT: R91-10954.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT
ASSAY STD		0.014	0.26
ASSAY STD		0.014	-
Number of Analyses		2	1
Mean Value		0.0140	0.260
Standard Deviation		0.00000	-
Accepted Value		0.012	0.24
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

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PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
RL-178 545-550		0.003	0.05				
Duplicate		0.003	0.07				
RL-178 595-600		0.003	0.05				
Duplicate		0.003	0.07				
RL-178 615-620		0.006	0.09				
Prep Duplicate		0.005	0.11				
RL-178 650-655		0.005	0.08				
Duplicate		0.005	0.08				
RL-178 700-705		0.007	0.05				
Duplicate		0.010	0.06				
RL-178 745-750		0.023	0.05				
Prep Duplicate		0.020	0.06				
RL-178 750-755		0.005	0.04				
Duplicate		0.005	0.04				
RL-178 800-805		0.006	0.04				
Duplicate		0.005	0.03				

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Geochemical Lab Report

DATE PRINTED: 22-MAY-91

REPORT: R91-10844.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
Z2 RL-178 0-5		<0.002	<0.02
Z2 RL-178 5-10		<0.002	<0.02
Z2 RL-178 10-15		<0.002	<0.02
Z2 RL-178 15-20		0.003	<0.02
Z2 RL-178 20-25		0.002	0.03
Z2 RL-178 25-30		0.011	<0.02
Z2 RL-178 30-35		0.003	<0.02
Z2 RL-178 35-40		0.003	0.03
Z2 RL-178 40-45		0.004	<0.02
Z2 RL-178 45-50		0.003	<0.02
Z2 RL-178 50-55		<0.002	0.13
Z2 RL-178 55-60		0.004	0.04
Z2 RL-178 60-65		0.003	0.04
Z2 RL-178 65-70		0.004	0.04
Z2 RL-178 70-75		0.003	0.03
Z2 RL-178 75-80		0.003	0.04
Z2 RL-178 80-85		<0.002	0.04
Z2 RL-178 85-90		0.003	0.04
Z2 RL-178 90-95		0.003	0.04
Z2 RL-178 95-100		0.003	0.04
P4 BA-56		0.021	0.06
Z2 RL-178 100-105		0.003	0.03
Z2 RL-178 105-110		<0.002	<0.02
Z2 RL-178 110-115		0.009	0.06
Z2 RL-178 115-120		0.005	0.05
Z2 RL-178 120-125		0.005	0.06
Z2 RL-178 125-130		<0.002	0.03
Z2 RL-178 130-135		0.004	0.05
Z2 RL-178 135-140		0.005	0.07
Z2 RL-178 140-145		0.006	0.03
Z2 RL-178 145-150		0.005	0.07
Z2 RL-178 150-155		0.003	0.04
Z2 RL-178 155-160		0.003	0.05
Z2 RL-178 160-165		0.003	0.03
Z2 RL-178 165-170		<0.002	<0.02
Z2 RL-178 170-175		0.004	0.05
Z2 RL-178 175-180		0.003	0.04
Z2 RL-178 180-185		0.003	0.08
Z2 RL-178 185-190		0.003	0.06
Z2 RL-178 190-195		<0.002	0.04
Z2 RL-178 195-200		<0.002	0.03
P4 BA-57		0.031	0.17
Z2 RL-178 200-205		0.004	0.04
Z2 RL-178 205-210		0.005	0.08
Z2 RL-178 210-215		0.013	0.10
Z2 RL-178 215-220		0.006	0.06
Z2 RL-178 220-225		0.004	0.06
Z2 RL-178 225-230		0.006	0.05
Z2 RL-178 230-235		0.011	0.07
Z2 RL-178 235-240		0.006	0.17
Z2 RL-178 240-245		0.004	0.04
Z2 RL-178 245-250		0.004	0.07
Z2 RL-178 250-255		0.003	0.04
Z2 RL-178 255-260		0.004	0.04
Z2 RL-178 260-265		0.005	0.03
Z2 RL-178 265-270		0.003	0.04
Z2 RL-178 270-275		0.013	0.07
Z2 RL-178 275-280		0.026#	0.22
Z2 RL-178 280-285		0.006	0.07
Z2 RL-178 285-290		0.005	0.08
Z2 RL-178 290-295		0.037#	0.10
Z2 RL-178 295-300		0.008	0.07
P4 BA-58		0.051	0.03
Z2 RL-178 300-305		0.013	0.07
Z2 RL-178 305-310		0.009	0.07
Z2 RL-178 310-315		0.004	0.05
Z2 RL-178 315-320		0.003	0.03
Z2 RL-178 320-325		<0.002	<0.02
Z2 RL-178 325-330		0.010	0.06
Z2 RL-178 330-335		0.004	0.03
Z2 RL-178 335-340		0.005	0.06
Z2 RL-178 340-345		0.015#	0.07
Z2 RL-178 345-350		0.006	<0.02
Z2 RL-178 350-355		0.030	<0.02
Z2 RL-178 355-360		0.067#	<0.02
Z2 RL-178 360-365		0.007	<0.02
Z2 RL-178 365-370		0.016	0.04
Z2 RL-178 370-375		0.010	0.03
Z2 RL-178 375-380		0.004	<0.02
Z2 RL-178 380-385		0.003	0.19

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

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 22-MAY-91

REPORT: R91-10844.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
Z2 RL-178 385		0.003	<0.02
Z2 RL-178 390		0.007	0.03
Z2 RL-178 395		<0.002	<0.02
P4 BA-59		0.035	0.22
Z2 RL-178 400		0.010	0.07
Z2 RL-178 405		0.003	<0.02
Z2 RL-178 410		0.015	<0.02
Z2 RL-178 415		0.006	0.06
Z2 RL-178 420		0.003	0.03
Z2 RL-178 425		0.015	0.03
Z2 RL-178 430		0.0144	<0.02
Z2 RL-178 435		0.016	0.07
Z2 RL-178 440		0.031	0.04
Z2 RL-178 445		0.004	0.07
Z2 RL-178 450		0.003	<0.02
Z2 RL-178 455		0.004	<0.02
Z2 RL-178 460		0.003	0.25
Z2 RL-178 465		0.014	0.27
Z2 RL-178 470		0.008	<0.02
Z2 RL-178 475		<0.002	<0.02
Z2 RL-178 480-485		0.003	0.05
Z2 RL-178 485-490		<0.002	<0.02
Z2 RL-178 490-495		0.005	0.45
Z2 RL-178 495-500		0.005	0.93
P4 BA-60		0.033	0.17
Z2 RL-178 500-505		0.005	0.74
Z2 RL-178 505-510		0.003	0.08
Z2 RL-178 510-515		0.003	0.25
Z2 RL-178 515-520		0.003	0.11
Z2 RL-178 520-525		0.003	0.05

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

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 4-JUN-91

REPORT: R91-10954.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
Z2 RL-178 525-530		0.004	0.04
Z2 RL-178 530-535		0.004	0.07
Z2 RL-178 535-540		0.004	0.07
Z2 RL-178 540-545		0.009	0.07
Z2 RL-178 545-550		0.003	0.05
Z2 RL-178 550-555		0.003	0.03
Z2 RL-178 555-560		0.005	0.07
Z2 RL-178 560-565		0.009	0.07
Z2 RL-178 565-570		0.003	0.05
Z2 RL-178 570-575		0.006	0.10
Z2 RL-178 575-580		0.006	0.16
Z2 RL-178 580-585		0.039	0.11
Z2 RL-178 585-590		0.003	0.11
Z2 RL-178 590-595		0.010	0.09
Z2 RL-178 595-600		0.003	0.05
Z2 RL-178 600-605		0.004	0.06
Z2 RL-178 605-610		0.009	0.07
Z2 RL-178 610-615		0.015	0.07
Z2 RL-178 615-620		0.006	0.09
Z2 RL-178 620-625		0.012	0.09
P4 BA-61		0.036	0.18
Z2 RL-178 625-630		0.007	0.08
Z2 RL-178 630-635		0.013	0.16
Z2 RL-178 635-640		0.008	0.13
Z2 RL-178 640-645		0.009	0.12
Z2 RL-178 645-650		0.005	0.08
Z2 RL-178 650-655		0.005	0.08
Z2 RL-178 655-660		0.007	0.11
Z2 RL-178 660-665		0.017	0.11
Z2 RL-178 665-670		0.012	0.10
Z2 RL-178 670-675		0.011	0.12
Z2 RL-178 675-680		0.004	0.08
Z2 RL-178 680-685		0.017	0.10
Z2 RL-178 685-690		0.013	0.09
Z2 RL-178 690-695		0.011	0.07
Z2 RL-178 695-700		0.005	0.07
Z2 RL-178 700-705		0.007	0.05
Z2 RL-178 705-710		0.006	0.05
Z2 RL-178 710-715		0.003	0.06
Z2 RL-178 715-720		0.005	0.07
Z2 RL-178 720-725		0.019	0.19
P4 BA-62		0.020	0.08
Z2 RL-178 725-730		0.010	0.06
Z2 RL-178 730-735		0.012	0.05
Z2 RL-178 735-740		0.009	0.12
Z2 RL-178 740-745		0.004	<0.02
Z2 RL-178 745-750		0.023	0.05
Z2 RL-178 750-755		0.005	0.04
Z2 RL-178 755-760		0.017	0.04
Z2 RL-178 760-765		0.022	0.05
Z2 RL-178 765-770		0.019	0.03
Z2 RL-178 770-775		<0.002	<0.02
~~Z2 RL-178 775-780~~		~~0.005~~	~~0.03~~
Z2 RL-178 780-785		0.027	0.05
Z2 RL-178 785-790		0.038	0.09
Z2 RL-178 790-795		0.013	0.06
Z2 RL-178 795-800		0.009	0.04
Z2 RL-178 800-805		0.006	0.04
Z2 RL-178 805-810		0.011	0.04
Z2 RL-178 810-815		0.003	0.03
Z2 RL-178 815-820		0.004	0.03

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: 22-MAY-91

REPORT: R91-10844.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
RL-178 20-25		0.002	0.03
Duplicate		0.003	<0.02
RL-178 70-75		0.003	0.03
Duplicate		0.003	
RL-178 105-110		<0.002	<0.02
Duplicate			<0.02
RL-178 125-130		<0.002	0.03
Duplicate		<0.002	
RL-178 155-160		0.003	0.05
Prep Duplicate		0.003	0.05
RL-178 175-180		0.003	0.04
Duplicate		0.003	
RL-178 195-200		<0.002	0.03
Duplicate			0.02
RL-178 225-230		0.006	0.05
Duplicate		0.007	
RL-178 275-280		0.026#	0.22
Duplicate		0.027	
RL-178 280-285		0.006	0.07
Duplicate			0.08
RL-178 290-295		0.037#	0.10
Prep Duplicate		0.016	0.10
RL-178 330-335		0.004	0.03
Duplicate		0.003	
RL-178 370-375		0.010	0.03
Duplicate			0.05
RL-178 375-380		0.004	<0.02
Duplicate		0.004	
RL-178 390		0.007	0.03
Prep Duplicate		0.004	0.05
RL-178 430		0.014#	<0.02
Duplicate		0.024	
RL-178 450		0.003	<0.02
Duplicate			0.03
RL-178 480-485		0.003	0.05
Duplicate		0.003	

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

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 4-JUN-91

REPORT: R91-10954.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT
RL-178 545-550		0.003	0.05
Duplicate		0.003	0.07
RL-178 595-600		0.003	0.05
Duplicate		0.003	0.07
RL-178 615-620		0.006	0.09
Prep Duplicate		0.005	0.11
RL-178 650-655		0.005	0.08
Duplicate		0.005	0.08
RL-178 700-705		0.007	0.05
Duplicate		0.010	0.06
RL-178 745-750		0.023	0.05
Prep Duplicate		0.020	0.06
RL-178 750-755		0.005	0.04
Duplicate		0.005	0.04
RL-178 800-805		0.006	0.04
Duplicate		0.005	0.03

10844

RL178
0-525'

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

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BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

~~FILE COPY~~

REPORT: R91-10844.4 (COMPLETE)

REFERENCE INFO: RL178 0-200

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

SUBMITTED BY: KUHL
DATE PRINTED: 22-MAY-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	110	0.002 OPT		Fire Assay
2	Ag	Silver	110	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	105	2 -150	105	CRUSH,PULVERIZE -150	40
P PREPARED PULP	5	4 AS REC'D	5	OVERWEIGHT/LBS	394
				~~EXCESS WEINESS/SAMP~~	~~64~~
				AS RECEIVED, NO SP	5

NOTES: # indicates ERRATIC RESULTS

REMARKS: #ERRATIC RESULTS OBSERVED ON THE FOLLOWING:
RL-178 275-280--.012 OPT.
RL-178 290-295--.124 OPT.
RL-178 340-345--.010 OPT.
RL-178 355-360--.015,.010 OPT.
~~RL-178 430--.011,.024,.002 OPT.~~

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

INVOICE TO: MR. TIM KUHL

Cindy Howard

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: TIM KUHL

Certificate Date: 07-JUN-91
Invoice No. : I9115628
P.O. Number :

CERTIFICATE OF ANALYSIS A9115628

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
RL-178 570-575	205	294	0.004
RL-178 620-625	205	294	0.009
RL-178 670-675	205	294	0.009
RL-178 720-725	205	294	0.032
RL-178 770-775	205	294	0.001
RL-191 045-050	205	294	0.001
RL-191 095-100	205	294	< 0.001
RL-191 145-150	205	294	< 0.001
RL-191 195-200	205	294	0.001
RL-191 245-250	205	294	0.002
RL-191 295-300	205	294	0.006
RL-191 350-355	205	294	0.003
RL-191 400-405	205	294	0.002
RL-191 445-450	205	294	< 0.001
RL-191 494-499	205	294	< 0.001
RL-191 580-585	205	294	< 0.001
RL-192 045-050	205	294	0.001
RL-192 095-100	205	294	< 0.001
RL-192 145-150	205	294	< 0.001
RL-192 195-200	205	294	0.006
RL-192 245-250	205	294	< 0.001
RL-192 438-443	205	294	0.003
RL-192 488-493	205	294	0.582

CERTIFICATION: Kandis 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 :
Comments: ATTN: BOB THOMAS CC: GARFIELD MACVEIGH

Certificate Date: 21-MAY-91
Invoice No. : I9114940
P.O. Number :
Account : IZR

CERTIFICATE OF ANALYSIS A9114940

SAMPLE	PREP CODE		Au oz/T	Ag oz/T
RL-176 045-050	205	294	0.002	0.09
RL-176 095-100	205	294	0.004	0.13
RL-176 145-150	205	294	0.016	0.10
RL-176 195-200	205	294	0.003	0.06
RL-176 245-250	205	272	0.004	0.12
RL-176 295-300	205	272	0.007	0.07
RL-177 045-050	205	272	0.001	0.07
RL-177 095-100	205	272	0.002	0.04
RL-177 145-150	205	272	0.003	0.05
RL-177 195-200	205	272	0.009	0.06
RL-177 245-250	205	272	0.012	0.08
RL-177 295-300	205	272	0.004	0.03
RL-177 345-350	205	272	0.003	0.03
RL-177 395-400	205	272	0.011	0.08
RL-178 045-050	205	294	0.003	0.06
RL-178 095-100	205	272	0.003	0.07
RL-178 145-150	205	294	0.003	0.11
RL-178 195-200	205	272	0.002	0.07
RL-178 245-250	205	272	0.004	0.10
RL-178 295-300	205	272	0.025	0.12
RL-178 345-350	205	272	0.009	0.07
RL-178 395-400	205	272	0.002	0.06
RL-178 445-450	205	272	0.004	0.11
RL-178 495-500	205	272	0.005	1.10

CERTIFICATION: Hart Bichler

RL178

BOYLES-WELNAV
ELKO, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

****
* LAC MINERALS CO. *
****

JOB NUMBER: 029-0313-12CCGY

HOLE NUMBER: RL-178

LOCATION: ROSEBUD PROPERTY

SURVEY DATE: 07-11-1991

SURVEY ENGINEER: PHIL GRAFFT

GYRO REFERENCE BEARING: 038-00

********** **********
****** DEPTH MEASURED IN FEET ******* **********
********** *** THIS DIRECTIONAL SURVEY REPORT IS ****
** CORRECT TO THE BEST OF MY KNOWLEDGE ***
COMMENTS: * AND IS SUPPORTED BY ACTUAL FIELD DATA! *
** **
** Phil Graff **
** ********** **
** COMPANY REPRESENTATIVE **
****
****

BOYLES-WELNAV
ELKO, NEVADA

JOB NUMBER: 029-0313-12CCGY HOLE NUMBER: RL-178

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	0.09	-88.97	042.23	0.33 N	0.30 E	2.06	1.03	0.45	AT 042.23
100.0	99.99	0.32	-89.58	004.82	0.85 N	0.62 E	1.48	0.74	1.05	AT 036.15
150.0	149.99	0.59	-89.66	350.20	1.18 N	0.61 E	0.25	0.13	1.33	AT 027.39
200.0	199.99	0.96	-89.32	285.08	1.40 N	0.30 E	1.24	0.62	1.43	AT 012.01
250.0	249.97	2.12	-87.87	320.27	2.19 N	0.58 W	3.24	1.62	2.27	AT 345.12
350.0	349.91	5.83	-87.87	321.17	5.07 N	2.94 W	0.03	0.03	5.86	AT 329.92
400.0	399.87	7.66	-87.92	320.48	6.49 N	4.10 W	0.11	0.06	7.68	AT 327.76
450.0	449.84	9.48	-87.91	320.12	7.89 N	5.26 W	0.03	0.02	9.48	AT 326.33
500.0	499.80	11.32	-87.85	319.23	9.30 N	6.45 W	0.14	0.07	11.32	AT 325.24
550.0	549.77	13.20	-87.83	318.20	10.72 N	7.70 W	0.09	0.04	13.20	AT 324.31
600.0	599.73	15.07	-87.86	321.68	12.16 N	8.91 W	0.27	0.13	15.07	AT 323.77
650.0	649.70	16.92	-87.89	324.80	13.64 N	10.02 W	0.24	0.12	16.92	AT 323.71
700.0	699.66	18.79	-87.83	327.37	15.19 N	11.06 W	0.23	0.11	18.79	AT 323.95

```
*********************************************************
*                    ********                           *
*     THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF       *
*                    ********                           *
*  700.0 FEET EQUALS    18.79   FEET AT  323.95         *
*                    ********                           *
*********************************************************
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