60001407

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-182
AUTHOR	C. Walck; T. Kuhl; 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; Bondar-Clegg Inc Chemex Labs, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 785' handwritten notes; directional survey 21p.

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 RL-182
Rosebud

60001407 4010

60001407

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-182 TOTAL DEPTH 785' LOGGED BY RKS

Date started 6/13/91

Date completed 6/14/91

Initial bearing —

Initial inclination -90°

Elevation 5311.7

Collar coordinates:

N 2203720.0

E 482602.4

Contractor: Stevens

Drill Type: RC

Hole Size: 5 1/4

Drilling Conditions: Bueno

Footage: Wet / Dry 0-325 dry

325-785 wet

Comments:

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-182

Page 1 of 8

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
									Brn Brn-red org					O.B. - Qal	<	<		
05																		
10																		
15																		
20															<	.03 / .07 / .07		
25									Yllw org wht					F. Grn. tuff Protolith cannot be	<	.04		
30														determined due to stry clay alt.	.004 / .004	.07 / .07		
35														∴ Possibly Ct	.003	.07		
40															<	.11		
45															<	.10	.002	
50															<	.11		
55															<	.11		
60															.005	.09		
65															.003	.10		
70															<	.06 / .06 / .10		
75									red					(w/ minor Hem)	.003	.11		
80														(w/ mod Hem.)	.004 / .004	.14 / .14		
85														(1st sulfide show)	.003	.12		
90													5	oxides Redox Boundary				
95									lt Grey wht				1	sulfides	.003	.09		
100													2		<	.06	.002	

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DRILL HOLE RL-182

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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
									lt Grey wht				2	SAA - Ct (w/ minor Qtz vn)	.005	.09		
105															.006	.12		
110															.007	.14		
115													4		.003	.11		
120													5		<	.09		
125													3		.003/.003	.07		
130													2		<	.06		
135									lt Green lt Grey				1	(Δ color)	.003/.003	.08/.07		
140													.5	(damp)	<	.03		
145															<	<	.001	
150									lt Grey wht					(Δ color) strg Bleaching	<	<		
155													1			<		
160													1			.05		
165									Pale Green lt Grey				.5	(w/ Phenos of Chlor. after Plag and/or Biot)		.03		
170													.5			<		
175																<		
180																<		
185															<	<		
190															.004	.10		
195									lt Grey wht Peach				1	Δ color	.004	.10	.003	
200																		

Fault?

Fault?

LAC MINERALS (U.S.A.) INC.
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DRILL HOLE RL-182

Page 3 of 8

LOGGED BY RKS

Footwall

	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				1	SAA - Ct	.004	.09		
205															.004	.09		
210															.003	.07		
215															<	.07		
220															<	.07/.07/.11		
225									Flesh Peach wht						.004	.09		
230									Flesh to Grey wht						.003	.06		
235													2	(Incr in Qtz) (Incr in sulf)	.004/.003	.08/.08		
240													2		.007	.10		
245													1	Decr sulf	.006	.10	.005	
250													.5		<	.05		
255													3	(Strg incr. sulf)	.003	.08		
260													2	(Slight decr. sulf)	.005	.11		
265													.5		<	.04		
270													.5		<	.04		
275													1		.019/.005	.08/.08		
280													2		.004	.09/.08		
285													1		.0006/.019/.010	.10/.10/.11		
290													2		.005	.09		
295													2		.003	.08	.003	
300																		

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

DRILL HOLE RL-182

Page 4 of 8

0-325 Dry
330-TD wet

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
									Flesh lt Grey wht				1	SAA Ct (damp)	.004	.07		
305																		
Fault 310													2	(Bx - minor)	<	.06		
									Flesh lt Green wht				.5		.006	.07		
315															<	.04		
320															.003	.07		
325														H_2O	<	.06		
330									Flesh lt Grey wht						<	.06		
335															.003	.07		
340															missing			
345															.004/.006	.09/.09	.005	
350															.010	.08		
355															.005	.08		
360															.006	.06		
365															.004	.08		
370															.004	.06		
375															.005	.08		
380														(very sorg clay alt & slight incr in Qtz vn & salt)	.004	.07		
385															.006	.08		
390															.006/.006	.08/.08		
395															.006	.07		
400																		

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DRILL HOLE RL-182

Page 5 of 8

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
									lt Grey lt Green fresh wk				.5	SAA - Ct. (very clay alt)	.007	.07	.005	
405															.005	.11		
410															.006	.15		
415														(minor silic)	.007	.08		
420															.005	.04		
425															.004	.07		
430															.007	1.39 / 1.45		
435															.005	.09		
440															.006	.07		
445														(w/ sugar wht Qtz)	.061 / .068	.21 / .23		
450														(+ Py after marc)	.007	.09	.006	
455															.005	.07		
460															.005	.09		
465															.004	.07		
470															.004 / .004	.09 / .08		
475															.004	.06		
480															.006	.07		
485															.004	.08		
490															.005	.09		
495															.004 / .005	.07 / .07		
500																		

minor frax

minor frax

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

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DRILL HOLE RL-182

Page 6 of 8

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
									Green Flesh lt Grey wht				.5	SAA- Ct	.005 / .006	.16 / .16 / .12	.006	
05															.009	.10		
10														(slight incr in sulf)	.005	.08		
15															.006	.10		
20															.003	.07		
25															.005	.07		
30															.006	.07		
35															.005	.08		
40															.017 / .026	.10		
45															.007 / .003 / .005	.12		
50															.019 / .018	.12 / .12	.016	
55									Green lt Green Peach wht						.050	.10		
60									Green lt Green wht						.017	.05		
65														Looks like Bud ∴ Lithic Lapilli tuff Bud tuff (?) (trace Qtz vn)	.007	.05		
70															.003	.04		
75															.003	.05		
80															.006	.07		
85															.013	.09		
90															.007	.11		
95															.009	.20 / .20		
00																		

LAC MINERALS (U.S.A.) INC.
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DRILL HOLE RL-182

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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
									Green lt Green wht				.5	SAA - Bud tuff (?) 6/13 6/14	.006 / .007	.14 / .14 / .13	.005	
605									Flesh				.5	(i Flesh colored Dacer Tuff?)	.014	.21		
SRF 610									Flesh Peach wht Grey					Very fine Grain Tuff ∴ Dacer tuff(?)	.021	.18		
minor Bx 615														(W/ Drk Grey Qtz vn)	.019	.14		
620															.027	.15		
625														(w/minor Bud Contam)	.035	.08		
630													1	(slight incr. in sulf)	.009	.05		
635													.5		.013	.07		
640															.022	.05		
645															.023	.05		
minor Bx 650															.236 / .253	.24 / .25	.216	
655									Pale Green wht Flesh					(W/ micro - clear Qtz vn)	.003	.03		
660															.019	.06		
665															.012	.04		
670															.016	.04		
675														(Stronger Bleaching)	.007	.04		
680														I had Larry rotate for awhile to clean up Drk Green Contam from above	.020	.05		
685									Sage Green						<	< / < / <		
690									lt Grey wht Flesh					(very stng Bleaching)	<	.03		
695									wht									
minor frax 700															.013	.13		

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DRILL HOLE RL-182

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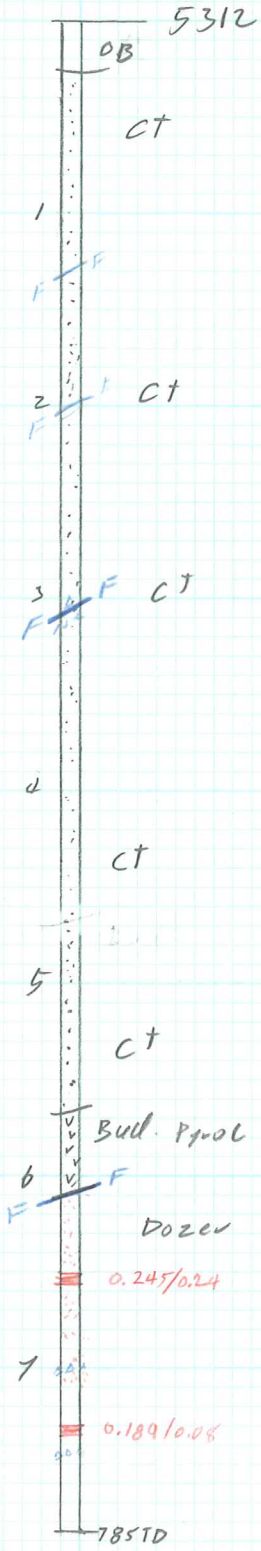
LOGGED BY RKS

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	% WASH RECOV
		X							Sage Green Flesh wlt				.5	SAA- Dozer tuff (trace Bx)	.014	.04	.009	
105		X													.028	.04		
110															.005 .005 .011	.06		
115									Sage Green Flesh					(wk alt)	.006 .005	.03 .03		
120															<	.03		
125									Sage Green					Stop to rotate and clean hole to eliminate contamination or at least cut it down to a minimum	<	<		
130									Pale Sage Green Flesh					(Grad incr in alt & Bleaching)	.096 .189 .029	.08		
135															.006	.03		
140		X X X												(mas agua)	<	.04		
Frag Bt 145															.008	.03		
150															< <	< <		.002
155															.003	<		
160															<	<		
165															<	<		
170																		
175																		
180																		
185																		
190														T.D. at 1:20 pm				
195																		
200																		

2,203,720.0 N
482,602.4 E



Rosebud
RL-182
1"=100'

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

Controlled TOK

RL182
0-785

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

JUL 8 1991

REPORT: R91-11146.4 (COMPLETE)

REFERENCE INFO: RL182 0-785

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

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

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	163	0.002 OPT		Fire Assay
2	Au DUP Gold Duplicate	20	0.002 OPT		Fire Assay
3	AU Dup Gold Duplicate	3	0.002 OPT		Fire Assay
4	Ag Silver	163	0.02 OPT		Fire Assay
5	AG DUP AG DUPLICATE	26	0.02 OPT		Fire Assay
6	AG DUP AG DUPLICATE	7	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	156	2 -150	156	CRUSH,PULVERIZE -150	156
P PREPARED PULP	7	4 AS REC'D	7	OVERWEIGHT/LBS	63
				EXCESS WFINESS/SAMP	92
				AS RECEIVED, NO SP	7

NOTES: # indicates ERRATIC RESULTS

REMARKS: SAMPLE RL182 340-345 WAS LISTED AS INCLUDED BUT IS MISSING.

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

INVOICE TO: MR. TIM KUHL

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: R91-11146.4 (COMPLETE)

DATE PRINTED: 3-JUL-91
PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT	AG DUP OPT
PD SYN STD AU/AG		0.041	-	-	0.30	-	-
PD SYN STD AU/AG		0.041	-	-	0.32	-	-
PD SYN STD AU/AG		0.040	-	-	0.33	-	-
PD SYN STD AU/AG		0.042	-	-	0.34	-	-
Number of Analyses		4	-	-	4	-	-
Mean Value		0.0410	-	-	0.323	-	-
Standard Deviation		0.00082	-	-	0.0171	-	-
Accepted Value		0.040	-	-	0.40	-	-
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		0.00000	-	-	0.0000	-	-
Accepted Value		0.002	-	-	0.02	-	-

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

BONDAR-CLEGG

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 3-JUL-91

REPORT: R91-11146.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT	AG DUP OPT
Z2 RL182 0 5		<0.002			<0.02		
Z2 RL182 5 10		<0.002			<0.02		
Z2 RL182 10 15		<0.002			<0.02		
Z2 RL182 15 20		<0.002			<0.02		
Z2 RL182 20 25		<0.002			0.03	0.07	0.07
Z2 RL182 25 30		<0.002			0.04		
Z2 RL182 30 35		0.004	0.004		0.07	0.07	
Z2 RL182 35 40		0.003			0.07		
Z2 RL182 40 45		<0.002			0.11		
Z2 RL182 45 50		<0.002			0.10		
Z2 RL182 50 55		<0.002			0.11		
Z2 RL182 55 60		<0.002			0.11		
Z2 RL182 60 65		0.005			0.09		
Z2 RL182 65 70		0.003			0.10		
Z2 RL182 70 75		<0.002			0.06	0.06	0.10
Z2 RL182 75 80		0.003			0.11		
Z2 RL182 80 85		0.004	0.004		0.14	0.14	
Z2 RL182 85 90		0.003			0.12		
Z2 RL182 90 95		0.003			0.09		
Z2 RL182 95 100		<0.002			0.06		
P4 BA 13		0.037			0.21		
Z2 RL182 100 105		0.005			0.09		
Z2 RL182 105 110		0.006			0.12		
Z2 RL182 110 115		0.007			0.14		
Z2 RL182 115 120		0.003			0.11		
Z2 RL182 120 125		<0.002			0.09		
Z2 RL182 125 130		0.003	0.003		0.07		
Z2 RL182 130 135		<0.002			0.06		
Z2 RL182 135 140		0.003	0.003		0.08	0.07	
Z2 RL182 140 145		<0.002			0.03		
Z2 RL182 145 150		<0.002			<0.02		
Z2 RL182 150 155		<0.002			<0.02		
Z2 RL182 155 160		<0.002			<0.02		
Z2 RL182 160 165		<0.002			0.05		
Z2 RL182 165 170		<0.002			0.03		
Z2 RL182 170 175		<0.002			<0.02		
Z2 RL182 175 180		<0.002			<0.02		
Z2 RL182 180 185		<0.002			<0.02		
Z2 RL182 185 190		<0.002	<0.002		<0.02	<0.02	
Z2 RL182 190 195		0.004			0.10		

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-JUL-91

REPORT: R91-11146.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT	AG DUP OPT
Z2 RL182 195 200		0.004			0.10		
P4 BA 14		<0.002			<0.02		
Z2 RL182 200 205		0.004			0.09		
Z2 RL182 205 210		0.004			0.09		
Z2 RL182 210 215		0.003			0.07		
Z2 RL182 215 220		<0.002			0.07		
Z2 RL182 220 225		<0.002			0.07	0.07	0.11
Z2 RL182 225 230		0.004			0.09		
Z2 RL182 230 235		0.003			0.06		
Z2 RL182 235 240		0.004	0.003		0.08	0.08	
Z2 RL182 240 245		0.007			0.10		
Z2 RL182 245 250		0.006			0.10		
Z2 RL182 250 255		<0.002			0.05		
Z2 RL182 255 260		0.003			0.08		
Z2 RL182 260 265		0.005			0.11		
Z2 RL182 265 270		<0.002			0.04		
Z2 RL182 270 275		<0.002			0.04		
Z2 RL182 275 280		0.019#	0.005		0.08	0.08	
Z2 RL182 280 285		0.004			0.09	0.08	
Z2 RL182 285 290		0.006#	0.015	0.010	0.10	0.10	0.11
Z2 RL182 290 295		0.005			0.09		
Z2 RL182 295 300		0.003			0.08		
P4 BA 15		0.052			0.06		
Z2 RL182 300 305		0.004			0.07		
Z2 RL182 305 310		<0.002			0.06		
Z2 RL182 310 315		0.006			0.07		
Z2 RL182 315 320		<0.002			0.04		
Z2 RL182 320 325		0.003			0.07		
Z2 RL182 325 330		<0.002			0.06		
Z2 RL182 330 335		<0.002			0.06		
Z2 RL182 335 340		0.003			0.07		
Z2 RL182 345 350		0.004	0.006		0.09	0.09	
Z2 RL182 350 355		0.010			0.08		
Z2 RL182 355 360		0.005			0.08		
Z2 RL182 360 365		0.006			0.06		
Z2 RL182 365 370		0.004			0.08		
Z2 RL182 370 375		0.004			0.06		
Z2 RL182 375 380		0.005			0.08		
Z2 RL182 380 385		0.004			0.07		
Z2 RL182 385 390		0.006			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

DATE PRINTED: 3-JUL-91

REPORT: R91-11146.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT	AG DUP OPT
Z2 RL182 390 395		0.006	0.006		0.08	0.08	
Z2 RL182 395 400		0.006			0.07		
Z2 RL182 400 405		0.007			0.07		
P4 BA 16		0.032			0.14		
Z2 RL182 405 410		0.005			0.11		
Z2 RL182 410 415		0.006			0.15		
Z2 RL182 415 420		0.007			0.08		
Z2 RL182 420 425		0.005			0.06		
Z2 RL182 425 430		0.004			0.07		
Z2 RL182 430 435		0.007			1.39	1.45	
Z2 RL182 435 440		0.005			0.09		
Z2 RL182 440 445		0.006			0.07		
Z2 RL182 445 450		0.061	0.068		0.21	0.23	
Z2 RL182 450 455		0.007			0.09		
Z2 RL182 455 460		0.005			0.07		
Z2 RL182 460 465		0.005			0.09		
Z2 RL182 465 470		0.004			0.07		
Z2 RL182 470 475		0.004	0.004		0.09	0.08	
Z2 RL182 475 480		0.004			0.06		
Z2 RL182 480 485		0.006			0.07		
Z2 RL182 485 490		0.004			0.08		
Z2 RL182 490 495		0.005			0.09		
Z2 RL182 495 500		0.004	0.005		0.07	0.07	
Z2 RL182 500 505		0.005	0.006		0.16	0.16	0.12
P4 BA 17		0.022			0.08		
Z2 RL182 505 510		0.008			0.10		
Z2 RL182 510 515		0.005			0.08		
Z2 RL182 515 520		0.006			0.10		
Z2 RL182 520 525		0.003			0.07		
Z2 RL182 525 530		0.005			0.07		
Z2 RL182 530 535		0.006			0.07		
Z2 RL182 535 540		0.005			0.08		
Z2 RL182 540 545		0.017	0.026		0.10		
Z2 RL182 545 550		0.007	0.003	0.005	0.12		
Z2 RL182 550 555		0.019	0.018		0.12	0.12	
Z2 RL182 555 560		0.050			0.10		
Z2 RL182 560 565		0.017			0.05		
Z2 RL182 565 570		0.007			0.05		
Z2 RL182 570 575		0.003			0.04		
Z2 RL182 575 580		0.003			0.05		

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Z2 RL182 580 585		0.006			0.07		
Z2 RL182 585 590		0.013			0.09		
Z2 RL182 590 595		0.007			0.11		
Z2 RL182 595 600		0.009			0.20	0.20	
Z2 RL182 600 605		0.006	0.007		0.14	0.14	0.13
P4 BA 18		0.032			0.18		
Z2 RL182 605 610		0.014			0.21		
Z2 RL182 610 615		0.021			0.18		
Z2 RL182 615 620		0.019			0.14		
Z2 RL182 620 625		0.027			0.15		
Z2 RL182 625 630		0.035			0.08		
Z2 RL182 630 635		0.009			0.05		
Z2 RL182 635 640		0.013			0.07		
Z2 RL182 640 645		0.022			0.05		
Z2 RL182 645 650		0.023			0.05		
Z2 RL182 650 655		0.236	0.253		0.24	0.25	
Z2 RL182 655 660		0.003			0.03		
Z2 RL182 660 665		0.019			0.06		
Z2 RL182 665 670		0.012			0.04		
Z2 RL182 670 675		0.016			0.04		
Z2 RL182 675 680		0.007			0.04		
Z2 RL182 680 685		0.020			0.05		
Z2 RL182 685 690		<0.002			<0.02	<0.02	<0.02
Z2 RL182 690 695		<0.002			0.03		
Z2 RL182 695 700		0.013			0.13		
Z2 RL182 700 705		0.014			0.04		
P4 BA 23		0.034	0.036		0.16	0.14	
Z2 RL182 705 710		0.028			0.04		
Z2 RL182 710 715		0.005	0.005	0.011	0.06		
Z2 RL182 715 720		0.006	0.005		0.03	0.03	
Z2 RL182 720 725		<0.002			0.03		
Z2 RL182 725 730		<0.002			<0.02		
Z2 RL182 730 735		0.096	0.189	0.029	0.08		
Z2 RL182 735 740		0.006			0.03		
Z2 RL182 740 745		<0.002			0.04		
Z2 RL182 745 750		0.008			0.03		
Z2 RL182 750 755		<0.002	<0.002		<0.02	<0.02	
Z2 RL182 755 760		0.003			<0.02		
Z2 RL182 760 765		<0.002			<0.02		
Z2 RL182 765 770		<0.002			<0.02		

Bondar-Clegg, Inc.
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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AU Dup OPT	Ag OPT	AG DUP OPT	AG DUP OPT
Z2 RL182 770 775		<0.002			<0.02		
Z2 RL182 775 780		<0.002			<0.02		
Z2 RL182 780 785		<0.002			<0.02		

Chemex Labs Inc.

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

To: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

Project : ROSEBUD
Comments: ATTN: TIM KUHL

Page Number :1
Total Pages :1
Certificate Date: 28-JUN-91
Invoice No. :I9116753
P.O. Number :

CERTIFICATE OF ANALYSIS A9116753

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
RL-181 765-770	208	294	0.005
RL-181 815-820	208	294	0.015
RL-181 865-870	208	294	0.010
RL-181 915-920	208	294	0.010
RL-182 045-050	208	294	0.002
RL-182 095-100	208	294	0.002
RL-182 145-150	208	294	0.001
RL-182 195-200	208	294	0.003
RL-182 245-250	208	294	0.005
RL-182 295-300	208	294	0.003
RL-182 350-355	208	294	0.005
RL-182 400-405	208	294	0.005
RL-182 450-455	208	294	0.006
RL-182 500-505	208	294	0.006
RL-182 550-555	208	294	0.016
RL-182 600-605	208	294	0.005
RL-182 650-655	208	294	0.216
RL-182 700-705	208	294	0.009
RL-182 750-755	208	294	0.002
RL-195 748-753	208	294	0.012
RL-195 798-803	208	294	0.115
RL-195 848-853	208	294	0.493
RL-195 892-897	208	294	0.001
RL-196 045-050	208	294	0.002
RL-196 095-100	208	294	0.002
RL-196 145-150	208	294	0.002
RL-196 195-200	208	294	0.001
RL-196 245-250	208	294	0.001

LAC

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

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RL-181 915-920	208	294	0.010
RL-182 045-050	208	294	0.002
RL-182 095-100	208	294	0.002
RL-182 145-150	208	294	0.001
RL-182 195-200	208	294	0.003
RL-182 245-250	208	294	0.005
RL-182 295-300	208	294	0.003
RL-182 350-355	208	294	0.005
RL-182 400-405	208	294	0.005
RL-182 450-455	208	294	0.006
RL-182 500-505	208	294	0.006
RL-182 550-555	208	294	0.016
RL-182 600-605	208	294	0.005
RL-182 650-655	208	294	0.216
RL-182 700-705	208	294	0.009
RL-182 750-755	208	294	0.002
RL-195 748-753	208	294	0.012
RL-195 798-803	208	294	0.115
RL-195 848-853	208	294	0.493
RL-195 892-897	208	294	0.001
RL-196 045-050	208	294	0.002
RL-196 095-100	208	294	0.002
RL-196 145-150	208	294	0.002
RL-196 195-200	208	294	0.001
RL-196 245-250	208	294	0.001

LAC

CERTIFICATION: Sandra M Adam

RL182

BOYLES-WELNAV
ELKO, NEVADA

GYROSCOPIC DIRECTIONAL SURVEY
BY MINIMUM CURVATURE

FOR

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

JOB NUMBER: 029-0313-12CCGY

HOLE NUMBER: RL-182

LOCATION: ROSEBUD PROPERTY

SURVEY DATE: 07-11-1991

SURVEY ENGINEER: PHIL GRAFFT

GYRO REFERENCE BEARING: 084-00

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

BOYLES-WELNAV
ELKO, NEVADA

JOB NUMBER: 029-0313-12CCGY HOLE NUMBER: RL-182

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 DISPLACEMENT DISP.		DIRECTION
50.0	49.99	0.82	-88.08	096.25	0.09 S	0.83 E	3.84	1.92	0.84	AT	096.25
100.0	99.96	2.57	-87.88	103.47	0.40 S	2.56 E	0.65	0.32	2.60	AT	098.82
150.0	149.93	4.38	-87.97	107.03	0.87 S	4.31 E	0.31	0.16	4.40	AT	101.44
200.0	199.90	6.10	-88.07	095.87	1.22 S	6.00 E	0.80	0.40	6.12	AT	101.48
250.0	249.87	7.73	-88.16	102.60	1.48 S	7.62 E	0.48	0.24	7.76	AT	100.99
300.0	299.84	9.32	-88.15	094.88	1.72 S	9.20 E	0.50	0.25	9.36	AT	100.60
350.0	349.82	10.92	-88.11	095.50	1.87 S	10.83 E	0.09	0.04	10.99	AT	099.80
400.0	399.78	12.71	-87.63	124.70	2.54 S	12.50 E	2.34	1.17	12.75	AT	101.48
450.0	449.74	14.68	-87.61	124.28	3.71 S	14.21 E	0.05	0.03	14.69	AT	104.65
500.0	499.71	16.52	-88.03	115.25	4.67 S	15.85 E	1.08	0.54	16.52	AT	106.41
550.0	549.68	18.06	-88.39	095.75	5.10 S	17.33 E	1.40	0.70	18.06	AT	106.42
600.0	599.66	19.49	-88.29	111.77	5.45 S	18.72 E	0.95	0.47	19.49	AT	106.24

```
*********************************************************
*                    ********                           *
*     THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF       *
*                    ********                           *
*   600.0 FEET EQUALS    19.49   FEET AT  106.24        *
*                    ********                           *
*********************************************************
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