60001609

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-225
AUTHOR	G. Langstaff; C. Walck; R. Donata; T. Kuhl; K. Kenner; S. Adam; M. Wagner
DATE OF DOC(S)	1991, 1999
MULTI_DIST Y / (N?) Additional Dist_Nos:	
QUAD_NAME	Sulphur 7.5'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; Rosebud Project; Rosebud Peak; Lac Minerals (USA) Inc; Steven Drilling; Newmont Gold Co.; Bondar-Clegg, Inc; Chemex Labs, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 630' handwritten notes ~~21~~ 23

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 6/2/08
Initials Date
DB: mah
Initials Date
SCANNED: NV Blue
Initials Date

Revised: 1/22/08

Drill Log RL-225
Rosebud Rosebud Peak

6000 1609 4010

60001609

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-225 TOTAL DEPTH 630 LOGGED BY MCW

Date started 8-21

Date completed 8-22

Initial bearing N 80 E

Initial inclination -60°

Elevation

Collar coordinates:

N

E

Contractor: Stevens

Drill Type: Track Mounted RCD

Hole Size: 5 1/4"

Drilling Conditions:

Footage: Wet / Dry 630 / 145

Comments:

DOWN HOLE SURVEY INFORMATION

FROM	TO	SURVEY POINT	INCLI-NATION	BEARING	X (Northing)	Y (Easting)	Z (Elevation)

Newmont Gold Rotary Form

Hole# RL-225
Logged by G. Langstaff
Date 2/13/99
Area North Rosebud Peak
Coords
Az/Incl
Total Depth 500
Contractor

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	greenclay	FeOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Dolo	Clay
		cSen	white to red								clast-supported conglomerate, subangular-subrounded, all clasts bleached, sandy rather than clayey matrix; some altered	tr?	1	0	0	0	0	0	tr lim.			0	0	0	
20											no samples														
		Ssp	pale brown, pale red, v. pale brown								silica-cemented or silicified matrix	tr	1	0	0	0	0	0	tr lim. hem.			0	0	0	
40											poorly sorted sandstone, clasts up to 4mm, locally matrix supported; hard, red-brown matrix/veinlets														
			v. pale green								vein quartz	0?	2?						0						
60			v. pale green								fresh biotite	1?	1						1						
			green								diagenetic or hydrothermal?								tr						
			v. pale green								vitreous green and red chips have fresh biotite, clastic textures less obvious			0					0	1 hem					
80			dk red brn								fresh biotite in clayey rock, some euhedral			1					2	0					
											fresh biotite		0											2	
			v. pale yellow-grey								chips of 2mm thick chalcedony veins with white margins, translucent interiors														
100											fresh euhedral biotite up to 1 mm		1?	0					tr			0			
			grey										0	2					2?						
			v. pale yel											1					1?						
			mixed v. pale yel and green-red								milky chalcedony(?) veinlets	diagenetic or hydrothermal?	1?												
120											clasts of vitreous feldspar <1mm			0					1?					1	
			dark green and red								vitreous feldspar 1.5mm; blocky vitreous feldspar <1m and 1mm														
140																									2
			mostly green								rock is green but may not be "green clay"		tr	1?					2						1
			mostly red, some green											0					tr	1					0
160											many chip-size volcanic clasts with rare feldspar and biotite phenos									hem.					1
			pale yel-green								fine but still fresh biotite			1?					2?	0					2
180																									1
			pale yel								many chips without clearly clastic textures		1?						0						0
			mostly red										tr?							lim.					
200											chip-size volcanic clasts									0			tr		

Alteration: Silic, argillic, clay, prop, Sericite, Chlorite, greenclay
Met.: FeOX, CO3, Sulfide
Mineralogy: Pyrite, Marcasite, Calc/Dolo, Clay

BROTHERLOCK Revised 3/1971

Newmont Gold Rotary Form

Hole# RL-225
Logged by G. Langstaff
Date 2/19/99
Area
Coords
Az/Incl
Total Depth 500
Contractor
Page 2 of 3

Footage	Formation	Rock type	Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	breccia	vein	gouge	Comments	Silic	argillic	clay	prop	Sericite	Chlorite	greenday	FEOX	CO3	Sulfide	Pyrite	Marcasite	Calc/Calp	Clay
		Ssp	med. and pale grey								white clay veinlets	tr?	tr	0	0	0	0	0	0			0	0	0	
											unmistable clastic textures														
											grey qtz vein											tr			
											white clay vein	0	0									0			
220		Fa	med. grey								aphyric volcanic with rough texture														
			tan								hard, tan rock with smooth texture could be different unit but also apparently aphyric	tr?													
												0													
240																									
											white clay veins (w/qtz?)														
260																									
			medium-dark reddish grey																					1	
																								2	
280																									
											white clay vein														
300											variably brecciated aphyric volcanic													1	
											rare breccia textures														
																								2	
320			medium grey																						
340											some irregularly brecciated chips														
360		Fa	medium grayish brown																						
											streaky textures														
380											no sample														
											v rare biotite microphenos <.5mm													2	
400																									

Newmont Gold Rotary Form

Hole# RL-225
Logged by G. Langstaff
Date 2/19/99
Area North Rosebud Peak
Coords
Az/Incl
Total Depth 500'
Contractor

Footage	Litho: Formation	Litho: Rock type	Litho: Color	Au oz/st	Ag oz/st	Graphic	Structure: fault	Structure: breccia	Structure: vein	Structure: gouge	Comments	Alteration: Silic	Alteration: argillic	Alteration: clay	Alteration: prop	Alteration: Sericite	Alteration: Chlorite		Met.: FEOX	Met.: CO3	Met.: Sulfide	Mineralogy: Pyrite	Mineralogy: Marcasite	Mineralogy: Calc/Dolo	Mineralogy: Clay
420		Fa	medium red and grey								some breccia textures streaky textures	0	0	0	0	0	0	0	0			0	0	2 1 2	
440 460											Samples lost in fire														
480 500			reddish grey								chips with breccia or streaky textures some "clay" in sample but not bleached chips for rest of hole missing T.D. 630'													2	

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

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

DRILL HOLE RL-225

Page 1 of 7

LOGGED BY McW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
		XX							Red Yel Tan					fine Grained Welded Tuff Porph Qal?	<	.03	
05		XX													<1/<	<1/<	
10														Void	<	<	
15																	
20																	
25		XX							Red Orng Tan					F Gr Welded Tuff Porph fault Zone Rx Lrg Chunks			
30		XX												Micro Bxt			
35		XX															
40		N															
45		X															
50		X							Olive Grn Red Orng					Bad Tuff			
55		NN XX							Orange, LT Olive					Possible Ash Flow			
60		NN N X							LT Olive, DK Grn								
65		N X												Tr Qtz			
70		N X							Red, DK Grn					fine Grained Welded Tuff	<1/<	<1/.03	
75		X													<	<	
80		N							LT Olive DK Grn					Ash Flow?	<	<	
85		NN N							Tan Grn						<	<	
90		NN N													<1/<	<1/<	
95		NN N												TR Clr Qtz	<	<	
00																	

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

DRILL HOLE RL-225

Page 2 of 7

LOGGED BY MCW

CHOCOLATE TUFF	ARGILLIC
BUD BRECCIA	XX SILICIFICATION
BUD TUFF	OX OXIDIZED
BUD EPICLASTIC	DRUZY QUARTZ
BUD TUFF BRECCIA	XC CHALCEDONIC QUARTZ
DT DOZER WELDED TUFF	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
									Dk Grn					F Gr Welded Tuff Porp Chl? w/ Ash Flow; Wh Cly Bud Tuff	<	<	
105									Tan GY to Dk Grn					Ash flow; LT Tan GY Clay			
110									Dk Grn to LT Tan GY					Mxt Welded Tuff w/ Ash flow			
115									Dk Red to LT Tan GY								
120														Chl ?			
125									Grn-Red w/ Grn Tan					Fgr Welded Tuff Porph; TR Wh Qtz Veins	<<<	<<<	
130															<	<	
135																	
140									Dk Grn Tan GY								
145														Wet Drillings Bud Tuff			
150																	
155														Mixed Tuff Porph w/ Ash flow; Micro Bxt			
160									Dk Grn					Fgr Tuff Porph			
165									Red GY to Dk Grn								
170									Maroon Dk Grn LT olive								
175									LT olive					Fgr Tuff Porph w/ Ash flow	<<<	<<<	
180															<	<	
185														End of Bud			
190	C.T.								PPL-M-Dk Grn					FR Tuff Porph; TR Wh Cly Phenos			
195									PPL-Red Orange								
200									Orange Dk Grn					Orange Clay Mtx; Micro Bxt			

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

DRILL HOLE RL-225

Page 3 of 7

LOGGED BY MCW

- CHOCOLATE TUFF
- BUD BRECCIA
- BUD TUFF
- BUD EPICLASTIC
- BUD TUFF BRECCIA
- DT DOZER WELDED TUFF
- ARGILLIC
- XX SILICIFICATION
- OX OXIDIZED
- DRUZY QUARTZ
- 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
	CT	N xX							LtGy DkGy Orng					Fn Grn Tuff Porph; TR Wh Clay Phenos; Dk Gy vns in MicroBrf	L	L	
205																	
10		xX							DkGy TanGy Orngs						L	L	
15		xX													L/L	L/L	
		xX							Dk PPL Gy						L	L	
20		xX												Fn Grned Tuff	L/L	L/L	
25		xX													L	L	
30		xX							Orng, Tan Dk PPL						L	L	
35		xX							Dk PPL Red Brn						L	L	
40									Dk PPL					Unalt Ry			
45														TR Wh Cly Phenos			
50																	
55																	
60																	
65																	
70																	
75																	
80																	
85																	
90																	
295																	
300																	

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

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

DRILL HOLE RL 225

Page 4 of 7

LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
	CT								PPL					FGr Tuff TR WH CLY Phenos UN Alt Rx			
305																	
10																	
15																	
20																	
25																	
30																	
35									Violet								
40														TR Micro Bx +			
45									Red GY								
50																	
55																	
60																	
65																	
70																	
75																	
80														missed Sample			
85																	
90																	
395																	
400																	

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

DRILL HOLE RL-225

Page 5 of 7

LOGGED BY MCW

- CHOCOLATE TUFF
- BUD BRECCIA
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- BUD EPICLASTIC
- BUD TUFF BRECCIA
- DT DOZER WELDED TUFF
- ARGILLIC
- XX SILICIFICATION
- OX OXIDIZED
- DRUZY QUARTZ
- 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
	CT								Red Gy Ok Gy					Fine Grained Tuff			
105																	
10		X							Ok Gy PPL								
15		XX												TR W/Phenos			
20		XX															
25		XX															
30		XX												TR Calcite			
35		XX															
40		XX															
45		XX															
50		XX															
55		XX															
60		XX												TR Micro Bxt			
65		XX															
70		XX												TR Crm Phenos			
75		XX															
80		XX												Lt Gy Phenos			
85		XX							Ok PPL								
90		XX							Red PPL								
95		XX															
500																	

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

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

DRILL HOLE RL-225

Page 6 of 7

LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
	CT	xx							OLG YPPL					fine Grained Tuff; TRLF Phenos			
505		xx															
10		xx															
15		xx															
		xx							VOLG Y W Red								
20		xx												TR WH Phenos			
25		xx							VOLG Y								
30		xx															
35		xx															
40		xx															
45		xx															
50		xx															
55		xx															
60		xx															
65		xx															
70		xx															
75		xx															
80		xx															
85		xx												TR Grn Phenos			
90		x															
														Unaltered Rock			
95														TR Micro Bx + w/Hem			
600																	
									TD					TD 600'			

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

CHOCOLATE TUFF
BUD BRECCIA
BUD TUFF
BUD EPICLASTIC
BUD TUFF BRECCIA
DT DOZER WELDED TUFF

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

DRILL HOLE RL-225

Page 7 of 7

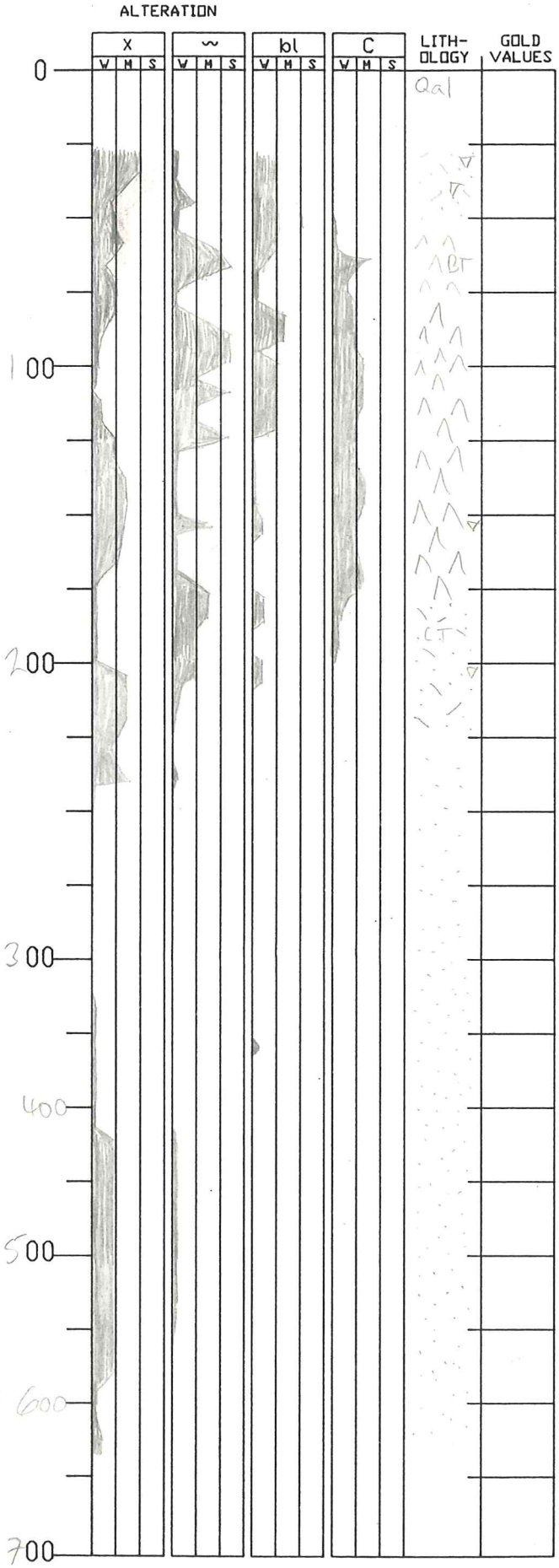
LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK
	CT								DKGY W/TR Red					fgr Tuff TR wlt Phenos			
605																	
10																	
15		x															
20		x															
25		x															
630		x															
35														TD Hole 8-22-91 12:30			
40																	
45																	
50																	
55																	
60																	
65																	
70																	
75																	
80																	
85																	
90																	
695																	
700																	

GRAPHIC LOG SUMMERY

DATE 8-21 to 22-91

PROJECT ROSEBUD HOLE NO. RL-225 T.D. 630 PAGE 1 OF 1



DESCRIPTION

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

COLOR	
	No Recovery
Red Orng Tan	Fine Grained Welded Tuff Porph; Possible Fault Zone Micro Bx t
Olive Green LT Orng LT Olive Dk Grn Red Dk Grn	Strongly Arg Tuff; Tr Qtz
LT Olive Dk Grn Tan Grn	Tr Clr Qtz
DK Green Tan Gy - Dk Grn Dk Red, LT Gy	Chl.; Chl
Grn Red Grn Tan Dk Grn Tan Gy	TR WH Qtz Veins; Wet Drilling Begins
Dk Grn Maroon Dk Grn LT Olive	Micro Bx t
PPL Vn - Dk Grn PPL - Red Orng Orng Dk Grn	Fn Grained Tuff Porph; TR WH Cly Phenos; Orng. Cly Mtx; Micro Bx t
LT - Dk Gy, Orng Dk - Tan Gy, Orng Dk PPL Gy	TR WH Cly Phenos; Fine Grained Tuff
Orng Tan Dk Gy Dk PPL Red Brn Dk PPL	Wkly Alt Rock; TR WH Cly Phenos
PPL Violet Red Gy	TR Micro Bx t
Dk Gy PPL	TR WH Phenos; TR Calcite
Dk PPL	TR Micro Bx t; TR Crm Phenos LT Gy Phenos
VDK Gy W Red VDK Gy	TR WH Phenos
	Unalt Rock; Tr Brn Cly Phenos; TR Micro Bx t
	TD 630

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

RL225

Geochemical Lab Report

SEP 18 1991

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11791.4 (COMPLETE)

REFERENCE INFO: RL 225C 11-170

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

SUBMITTED BY: WAICK
DATE PRINTED: 16-SEP-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	32	0.002 OPT		Fire Assay
2	Ag	Silver	32	0.02 OPT		Fire Assay
3	Au DUP	Gold Duplicate	4	0.002 OPT		Fire Assay
4	AG DUP	AG DUPLICATE	4	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	31	2 -150	31	CRUSH,PULVERIZE -150	31
P PREPARED PULP	1	4 AS REC'D	1	AS RECEIVED, NO SP	1
				DRYING/SAMPLE	31

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

INVOICE TO: MR. TIM KUHL

Rickey L Carter

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: 16-SEP-91

REPORT: R91-11791.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT	Au DUP OPT	AG DUP OPT
ANALYTICAL BLANK		<0.002	<0.02	-	-
Number of Analyses		1	1	-	-
Mean Value		0.0010	0.010	-	-
Standard Deviation		-	-	-	-
Accepted Value		0.002	0.02	-	-
PD SYN STD AU/AG		0.044	0.42	-	-
Number of Analyses		1	1	-	-
Mean Value		0.040	0.420	-	-
Standard Deviation		-	-	-	-
Accepted Value		0.040	0.40	-	-

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

RL225

SEP 30 1991

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11850.4 (COMPLETE)

REFERENCE INFO: RL 225 0-240

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

SUBMITTED BY: WAGER
DATE PRINTED: 25-SEP-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au DUP	Gold Duplicate	3	0.002 OPT		Fire Assay
2	Au	Gold	15	0.002 OPT		Fire Assay
3	AG DUP	AG DUPLICATE	3	0.02 OPT		Fire Assay
4	Ag	Silver	15	0.02 OPT		Fire Assay

SAMPLE TYPES		NUMBER	SIZE FRACTIONS		NUMBER	SAMPLE PREPARATIONS	NUMBER
Z	OTHER DRILL TYPES	14	2	-150	14	CRUSH,PULVERIZE -150	14
P	PREPARED PULP	1	4	AS REC'D	1	DRYING/SAMPLE	14
						AS RECEIVED, NO SP	1

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

INVOICE TO: MR. TIM KUHL

Rinkey L Ortiz

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: 25-SEP-91

REPORT: R91-11850.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au DUP OPT	Au OPT	AG DUP OPT	Ag OPT
PD SYN STD AU/AG		-	0.042	-	0.39
Number of Analyses		-	1	-	1
Mean Value		-	0.0420	-	0.390
Standard Deviation		-	-	-	-
Accepted Value		-	0.040	-	0.40

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: 16-SEP-91

REPORT: R91-11791.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Au DUP OPT	AG DUP OPT
Z2 RL225 0 5		<0.002	0.03		
Z2 RL225 5 10		<0.002	<0.02	<0.002	<0.02
Z2 RL225 25 30		<0.002	<0.02		
Z2 RL225 30 35		<0.002	<0.02		
Z2 RL225 35 40		<0.002	<0.02		
Z2 RL225 40 45		<0.002	<0.02		
Z2 RL225 45 50		<0.002	<0.02		
Z2 RL225 50 55		<0.002	<0.02		
Z2 RL225 55 60		<0.002	<0.02		
Z2 RL225 60 65		<0.002	<0.02		
Z2 RL225 65 70		<0.002	<0.02		
Z2 RL225 70 75		<0.002	<0.02	<0.002	0.03
Z2 RL225 75 80		<0.002	<0.02		
Z2 RL225 80 85		<0.002	<0.02		
Z2 RL225 85 90		<0.002	<0.02		
RL225 90 95		<0.002	<0.02	<0.002	<0.02
Z2 RL225 95 100		<0.002	<0.02		
Z2 RL225 100 105		<0.002	<0.02		
Z2 RL225 105 110		<0.002	<0.02		
Z2 RL225 110 115		<0.002	<0.02		
P4 BA 159		<0.002	<0.02		
Z2 RL225 115 120		<0.002	<0.02		
Z2 RL225 120 125		<0.002	<0.02		
Z2 RL225 125 130		<0.002	<0.02	<0.002	<0.02
Z2 RL225 130 135		<0.002	<0.02		
Z2 RL225 135 140		<0.002	<0.02		
Z2 RL225 140 145		<0.002	<0.02		
Z2 RL225 145 150		<0.002	<0.02		
Z2 RL225 150 155		<0.002	<0.02		
Z2 RL225 155 160		<0.002	<0.02		
Z2 RL225 160 165		<0.002	<0.02		
Z2 RL225 165 170		<0.002	<0.02		

Bondar-Clegg, Inc.
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BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11850.4 (COMPLETE)

DATE PRINTED: 25-SEP-91
PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au DUP OPT	Au OPT	AG DUP OPT	Ag OPT
Z2 RL225 170 175		<0.002	<0.002	<0.02	<0.02
Z2 RL225 175 180			<0.002		<0.02
Z2 RL225 180 185			<0.002		<0.02
Z2 RL225 185 190			<0.002		<0.02
Z2 RL225 190 195			<0.002		<0.02
Z2 RL225 195 200			<0.002		<0.02
Z2 RL225 200 205			<0.002		<0.02
Z2 RL225 205 210			<0.002		<0.02
Z2 RL225 210 215		<0.002	<0.002	<0.02	<0.02
Z2 RL225 215 220			<0.002		<0.02
Z2 RL225 220 225		<0.002	<0.002	<0.02	<0.02
Z2 RL225 225 230			<0.002		<0.02
Z2 RL225 230 235			<0.002		<0.02
Z2 RL225 235 240			<0.002		<0.02
P4 BA 172			0.101		0.11

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 16-SEP-91

REPORT: R91-11791.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Au DUP OPT	AG DUP OPT
RL225 5 10		<0.002	<0.02	<0.002	<0.02
Duplicate		<0.002	<0.02		
RL225 70 75		<0.002	<0.02	<0.002	0.03
Duplicate		<0.002	0.03		
RL225 90 95		<0.002	<0.02	<0.002	<0.02
Prep Duplicate		<0.002	<0.02		
RL225 125 130		<0.002	<0.02	<0.002	<0.02
Duplicate		<0.002	<0.02		

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Geochemical Lab Report

DATE PRINTED: 25-SEP-91

REPORT: R91-11850.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au DUP OPT	Au OPT	AG DUP OPT	Ag OPT
RL225 170 175		<0.002	<0.002	<0.02	<0.02
Duplicate			<0.002		<0.02
RL225 210 215		<0.002	<0.002	<0.02	<0.02
Prep Duplicate			<0.002		<0.02
RL225 220 225		<0.002	<0.002	<0.02	<0.02
Duplicate			<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

Certificate Date: 12-SEP-91
Invoice No. : I9121257
P.O. Number :

CERTIFICATE OF ANALYSIS A9121257

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
RL215 195-200	205	294	0.002
RL215 245-250	205	294	0.003
RL215 295-300	205	294	0.007
RL215 345-350	205	294	0.087
RL215 395-400	205	294	0.006
RL215 445-450	205	294	0.001
RL215 495-500	205	294	0.010
RL215 545-550	205	294	0.001
RL215 595-600	205	294	0.003
RL215 645-650	205	294	0.002
RL215 695-700	205	294	< 0.001
RL215 745-750	205	294	0.002
RL215 795-800	205	294	0.001
RL222 945-950	205	294	0.005
RL222 995-1000	205	294	0.004
RL225 060-065	205	294	< 0.001
RL225 110-115	205	294	< 0.001
RL225 160-165	205	294	< 0.001
RL225 215-220	205	294	< 0.001
RL226 050-055	205	294	< 0.001
RL226 100-105	205	294	< 0.001
RL226 200-205	205	294	< 0.001
RL227 050-055	205	294	0.001
RL227 100-105	205	294	0.001
RL227 150-155	205	294	0.002
RL227 200-205	205	294	0.005
RL227 250-255	205	294	< 0.001
RL227 300-305	205	294	< 0.001
RL227 350-355	205	294	< 0.001
RL227 400-405	205	294	0.004
RL227 450-455	205	294	0.001
RL227 500-505	205	294	0.004
RL228 045-050	205	294	< 0.001
RL228 095-100	205	294	0.001
RL228 145-150	205	294	< 0.001
RL228 200-205	205	294	0.003
RL228 245-250	205	294	0.007
RL228 295-300	205	294	0.003
RL228 345-350	205	294	< 0.001
RL228 395-400	205	294	< 0.001

CERTIFICATION: Sandra M. Adams