60001618

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-236
AUTHOR	M. Wagner; T. Kuhl; K. Kenner
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; Degerstrom Bonder-Clegg Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 365 handwritten notes ~~10~~ p. 12

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 LOGS RL-236
Rosebud

60001618 4010

Min 300' Max 450 1 Fault

66061618

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

DRILL LOG SUMMARY SHEET

PROJECT Rosebud (Deggerstrom)

HOLE NUMBER RL-236 TOTAL DEPTH 365 LOGGED BY MCW

Date started 10-4-91

Date completed 10/4/91

Initial bearing Vert.

Initial inclination

Elevation

Collar coordinates:

N

E

Contractor: Stevens

Drill Type: Track Mounted (RCD)

Hole Size: 4.5

Drilling Conditions:

Footage: Wet / Dry 365/245

Comments: (PDH 4)

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

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-236
Page 1 of 4
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
	Qal														<	<	
05	CT								PPL W/ Red					Fine Grained Relatively unalt CT W/ Hem and TR Lim TR Wh Clay	<	<	
10									PPL W/ Tan					WK Bleaching	<1/<	<1/<	
15		N							Tan to Yel-Orng					" W/Stng Lim Mod Bleaching	<	.03	
20		NN													<	.03	
25		N													<1/<	.04/.04	
30		N													<	.03	
35		N													<	.03	
40		N													#.004/.017	.05	
45		N							Red Tan Yell Orng					Stng Lim TR Hem	<	.03	
50		N							Tan Red Orng					Decreasing Hem-Lim mod to WK Bleaching	<	<	
55		x							LtGrY Tan					—Redox Zone— Mod Bleaching TR Wh Clay	<1/<	<1/<	
60		xx							DkGrY Red					Abt Secondary Hem Secondary Silica	<	<	
65		x							Blue Gr Red								
70		xxx							Red Brn								
75		xx							Red Brn Mt Blue Gr					TR Structurally Contr. Lim			
80		xxx															
85		xx															
90									Lt-MGrY Tan				TR	TR Diss Py Mod Bleaching TRWH Clay			
95	CT	xx							Tan Gr					TR Diss Py			
100																	

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DRILL HOLE RC-236
Page 2 of 4
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								LtGy Tan				1	Fine Grained CT Stng Bleaching TR Wh Clay	<	.02		
105		N							LtGy Tan				.5	Coarse Py		.04		
10													1.0			.03		
15															< <	.03 / .03		
20		XX														.06		
25		XX											.5	Stng-Mod Bleaching		.04		
30		XX														.02		
35		X														<		
40		X											TR					
45		X																
50		X							LtGy LtGy									
55		X												Mod Wk Bleaching				
60		N X												Mod-Stng Bleaching				
65		XXX												Mod Bleaching				
70		N XXX												Mod Wk Bleaching				
75		N XXX																
80		N XX																
85		N XX											.5					
90		N XX											TR					
95		N XX																
100	CT	N											1			.03		

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LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
	CT	X							LtGy Tan Gy				TR	Fine Grained CT; mod Bleached; Tr Biss Py; TR WH Arg	<	1.68		
05		~ XX							Red Brn Sage Grn				0	mod to wk Bleach; Grn Clay; TR Cel	<	.03		
10		~							Gy Grn Lt Olive					Bud like Unit?; wk Cel	<	<		
15		~				?								Very Hard Unit	<<	<<		
20		XXXX							Dk Grn					Dacite? stng Cel	<	<		
25		XXXX							V Dk Grn						<<	<<		
30									Dk Grn							.02		
35																<		
40														Coalet.				
45		~							Sage Grn M Grn				.5	mod Cel				
50									V Dk Grn				0	Very Hard Unit; Dacite? stng Cel				
55		~							Sage Grn Dk Grn					mixed Dacite? + Green Clay; mod-stng Cel				
60		~ ~													<<	<<		
65		~ ~																
70		~							Dk Gy to Gy Grn									
75		~							Dk Gy Red Brn Gy Grn				.5	TR WH Qtz; TR Secondary Hematite				
80		~				?			Red Brn Gy Grn				0	Pred Dacite?; Secondary Hematite; mod Cel				
85														wk Cel				
90		~							V Dk Gy Grn					TR Secondary Hematite; mod Cel				
95		~												mod-stng Cel				
100																		

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LOGGED BY MCW

	LITH.	ALT.	% ARG. ALT. W	M	S	% SIL'N W	M	S	COLOR	% FeOx W	M	S	% SULF.	COMMENTS	Au	Ag	CHECK	
	CT	N N							Mdy Gy/Gra					Fine Grained CT Tuff / Stng Clay Alt / Bud like Unit / Wk Cel	<	<		
05	A A	n							Mu-Dk Grn Red Brn					Large 2" Rock frags / TR Calcite / Mod Cel				
10		xxx							Dk Red Brn					Dark Very ? Hard / Secondary HemOx / TR Cel				
15		xx							Red Brn PPL Brn					TR Calcite				
20		x													<1/2	<1/2		
25									PPL Red Brn						<	<		
30														Cel Possible Contamination				
35																		
40																		
45		x																
50		x							Red Brn PPL					TR Wh Calcite				
55									PPL Red Brn					Wh Calcite Veins				
60														TR Wh Calcite				
65														TD 365' 4:00 PM 10-4-91				
70																		
75																		
80																		
85																		
90																		
95																		
00																		

Fault

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

RL236

Geochemical Lab Report

OCT 17 1991

REPORT: R91-12172.4 (COMPLETE)

REFERENCE INFO: RL 236 D-365

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

SUBMITTED BY: KENNER
DATE PRINTED: 15-OCT-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	76	0.002 OPT		Fire Assay
2	Ag	Silver	76	0.02 OPT		Fire Assay
3	Au DUP	Gold Duplicate	10	0.002 OPT		Fire Assay
4	AG DUP	AG DUPLICATE	12	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
Z OTHER DRILL TYPES	71	2 -150	71	CRUSH,PULVERIZE -150	73
P PREPARED PULP	3	4 AS REC'D	3	AS RECEIVED, NO SP	3
R ROCK OR BED ROCK	2	1 -60	2	OVERWEIGHT/LBS	32
				DRYING/SAMPLE	47
				EXCESS WETNESS/SAMP	26

NOTES: # indicates ERRATIC RESULTS

REMARKS: #ERRATIC RESULTS
K GAMMON

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

INVOICE TO: MR. TIM KUHL

Bondar-Clegg, Inc.
625 Spice Island Dr.
Building 1, Unit A
Sparks, Nevada 89431
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BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 15-OCT-91

REPORT: R91-12172.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Au DUP OPT	AG DUP OPT
Z2 RL 236 0 5		<0.002	<0.02		
Z2 RL 236 5 10		<0.002	<0.02		
Z2 RL 236 10 15		<0.002	<0.02	<0.002	<0.02
Z2 RL 236 15 20		<0.002	0.03		
Z2 RL 236 20 25		<0.002	0.03		
Z2 RL 236 25 30		<0.002	0.04	<0.002	0.04
Z2 RL 236 30 35		<0.002	0.03		
Z2 RL 236 35 40		<0.002	0.03		
Z2 RL 236 40 45		0.004#	0.05	0.017	
Z2 RL 236 45 50		<0.002	0.03		
Z2 RL 236 50 55		<0.002	<0.02		
Z2 RL 236 55 60		<0.002	<0.02	<0.002	<0.02
Z2 RL 236 60 65		<0.002	<0.02		
Z2 RL 236 65 70		<0.002	<0.02		
Z2 RL 236 70 75		<0.002	<0.02		
RL 236 75 80		<0.002	<0.02		
Z2 RL 236 80 85		<0.002	<0.02		
Z2 RL 236 85 90		<0.002	<0.02		
Z2 RL 236 90 95		<0.002	<0.02		
Z2 RL 236 95 100		<0.002	<0.02		
P4 BA 214		0.033	0.32		
Z2 RL 236 100 105		<0.002	0.02		
Z2 RL 236 105 110		<0.002	0.04		
Z2 RL 236 110 115		<0.002	0.03		
Z2 RL 236 115 120		<0.002	0.03	<0.002	0.03
Z2 RL 236 120 125		<0.002	0.03		0.04
Z2 RL 236 125 130		<0.002	0.06		0.06
Z2 RL 236 130 135		<0.002	0.04		0.04
Z2 RL 236 135 140		<0.002	0.02		
Z2 RL 236 140 145		<0.002	<0.02		
Z2 RL 236 145 150		<0.002	<0.02		
Z2 RL 236 150 155		<0.002	<0.02		
Z2 RL 236 155 160		<0.002	<0.02		
Z2 RL 236 160 165		<0.002	<0.02		
Z2 RL 236 165 170		<0.002	<0.02	<0.002	<0.02
Z2 RL 236 170 175		<0.002	<0.02		
RL 236 175 180		<0.002	<0.02		
Z2 RL 236 180 185		<0.002	<0.02		
Z2 RL 236 185 190		<0.002	<0.02		
Z2 RL 236 190 195		<0.002	<0.02		
Z2 RL 236 195 200		<0.002	0.03		
P4 BA 215		0.028	0.33		
Z2 RL 236 200 205		<0.002	1.68		
Z2 RL 236 205 210		<0.002	0.03		
Z2 RL 236 210 215		<0.002	<0.02		
Z2 RL 236 215 220		<0.002	<0.02	<0.002	<0.02
Z2 RL 236 220 225		<0.002	<0.02		
Z2 RL 236 225 230		<0.002	<0.02	<0.002	<0.02
Z2 RL 236 230 235		<0.002	0.02		
Z2 RL 236 235 240		<0.002	<0.02		
Z2 RL 236 240 245		<0.002	<0.02		
Z2 RL 236 245 250		<0.002	<0.02		
Z2 RL 236 250 255		<0.002	<0.02		
Z2 RL 236 255 260		<0.002	<0.02		
Z2 RL 236 260 265		<0.002	<0.02		
Z2 RL 236 265 270		<0.002	<0.02	<0.002	<0.02
Z2 RL 236 270 275		<0.002	<0.02		
Z2 RL 236 275 280		<0.002	<0.02		
Z2 RL 236 280 285		<0.002	<0.02		
Z2 RL 236 285 290		<0.002	<0.02		
RL RL 236 290 295		<0.002	<0.02		
RL RL 236 295 300		<0.002	<0.02		
P4 BA 216		0.021	0.09		
Z2 RL 236 300 305		<0.002	<0.02		
Z2 RL 236 305 310		<0.002	<0.02		
Z2 RL 236 310 315		<0.002	<0.02		
Z2 RL 236 315 320		<0.002	<0.02		
Z2 RL 236 320 325		<0.002	<0.02	<0.002	<0.02
Z2 RL 236 325 330		<0.002	<0.02		
Z2 RL 236 330 335		<0.002	<0.02		
Z2 RL 236 335 340		<0.002	<0.02		
Z2 RL 236 340 345		<0.002	<0.02		
Z2 RL 236 345 350		<0.002	<0.02		
Z2 RL 236 350 355		<0.002	<0.02		
Z2 RL 236 355 360		<0.002	<0.02		
Z2 RL 236 360 365		<0.002	<0.02		

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

DATE PRINTED: 15-OCT-91

REPORT: R91-12172.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT	Au DUP OPT	AG DUP OPT	STANDARD NAME	ELEMENT UNITS	Au OPT	Ag OPT	Au DUP OPT	AG DUP OPT
PD SYN STD AU/AG		0.038	0.46	-	-						
PD SYN STD AU/AG		0.037	0.43	-	-						
Number of Analyses		2	2	-	-						
Mean Value		0.0378	0.445	-	-						
Standard Deviation		0.00085	0.0212	-	-						
Accepted Value		0.040	0.40	-	-						
ANALYTICAL BLANK		<0.002	0.02	-	-						
ANALYTICAL BLANK		<0.002	<0.02	-	-						
Number of Analyses		2	2	-	-						
Mean Value		0.0010	0.015	-	-						
Standard Deviation		0.00000	0.0071	-	-						
Accepted Value		0.002	0.02	-	-						

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Au DUP OPT	AG DUP OPT	SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Au DUP OPT	AG DUP OPT
RL 236 10 15		<0.002	<0.02	<0.002	<0.02						
Duplicate		<0.002	<0.02								
RL 236 25 30		<0.002	0.04	<0.002	0.04						
Prep Duplicate		<0.002	0.04								
RL 236 60 65		<0.002	<0.02								
Duplicate		<0.002	<0.02								
RL 236 115 120		<0.002	0.03	<0.002	0.03						
Duplicate		<0.002	0.03								
RL 236 165 170		<0.002	<0.02	<0.002	<0.02						
Duplicate		<0.002	<0.02								
RL 236 215 220		<0.002	<0.02	<0.002	<0.02						
Duplicate		<0.002	<0.02								
RL 236 225 230		<0.002	<0.02	<0.002	<0.02						
Prep Duplicate		<0.002	<0.02								
RL 236 265 270		<0.002	<0.02	<0.002	<0.02						
Duplicate		<0.002	<0.02								
RL 236 320 325		<0.002	<0.02	<0.002	<0.02						
Duplicate		<0.002	<0.02								

Degerstrom Target

2 holes into IP Anom, encountered good alteration; bleaching and brecciation & silic along structures

234 0-150 & 300-400 – Check chips

Prob high ✗

Negligible gold

RL234 TD 700' 10-2-91

weakly anom: .00x 405-440'

also 0-5, 320-325, 665-670

RL 235 TD 525' 10-3-91

all below detection

2 holes drilled into Degerstrom low ✗ structure!

RL 236 T.D. 365 10-4-91

HW to ~60?', struct encountered shallow (~65'?) below was wk-fr Chloc & green epiclastic in Chloc Tce (~210'↓

40-45 0.01 Au, all others < .002

RL 237 T.D. 445 10-5-91

HW ~~to ~175'~~ ~~~245'~~ 255' – Fault ??

Anom Au 0-255' also 385-395

including 5'-15'/10' 0.020 230-245/15' .014

80-95'/15' 0.015

135-140/5' 0.026