66001428

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-208C
AUTHOR	K Kenner; T. Kuhl; R. Donato; S. Adams
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; Coates Drilling Lac Minerals (USA), Inc; Bondar-Clegg Inc Chemex Labs, Inc
COMMODITY If not obvious	gold silver
NOTES	Drill log; geology; assay; total depth 692' handwritten notes 29p

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 5/10/08
Initials Date
DB: mah
Initials Date
SCANNED:
Initials Date

Revised: 1/22/08

Drill Log RL-208
Rosebud

6000 1428 4010

60001428

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

DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD RC to 335'

HOLE NUMBER RL-208C TOTAL DEPTH 692 LOGGED BY KLK

Date started 8-22-91

Date completed 8-25-91

Initial bearing

Initial inclination vertical

Elevation 5258.3

Collar coordinates:

N 2203643.0

E 481817.5

Contractor: COATES

Drill Type: UNIVERSAL: RC/CORE

Hole Size: HQ

Drilling Conditions:

Footage: Wet / Dry

Comments:

DOWN HOLE SURVEY INFORMATION

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

HOLE # RL-208C LOGGED BY KLK DATE 9-91 PAGE 1 OF 6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.	COLOR	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
335	98	qtz sulf clay vns 20 70 60°-65° bedding	90 ugz 60°	1-2% diss + vn py + vn marcasite		W bl M bl S celad	Lt to deep sea grn	CORE BEGAN @ 335'	NO SAMPLE					
340	100					bl		335-437.2 BEDDED BUD - LITHIC LAPILLI TUFF - w/ graded bedding ranging from 60-65° to CA. Predominantly 0-25mm sized heterolithic clasts which are bleached to buff or flesh & elsewhere green & locally eaten OUT. Locally grades into beds which are ≥ 2mm in size. Predom. clast supported w/ perv. deep sea green clay altered matrix. Veining is predominantly subparelle to core axis & locally ± 60° to CA. which consists of drusy qtz vns locally vuggy w/ kaolinite + py + $CaCO_3$ + marcasite fill, locally contains barite. Veining ranges from <1-20mm wide & average ~ 1-5 vns/ft						
350	99				90 ugz									
360	99													
370	101	10° 40° qtz sulf clay vns						379.6-382 veining increases to ~ 5-8/ft w/ golden mustard 1/4" selvages (oxide)						
380	98			2-3% @ above										
390	100													
400														

HOLE # RL-208C LOGGED BY KLK DATE 9-91 PAGE 2 OF 6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.	COLOR
410, 420, 430, 440, 450, 460, 470	98, 99, 100, 98, 102, 97, 100	qtz clay py mar vns calc; 45°; 60° 65°; gn-deep; 0; 40° qtz clay celad sulf vns; 40°; 50°; 90° qtz clay calc sulf vns	Δ vn 30°	2-3% diss + vn py + vn mar casite; 1-2% @ above; +2% @ above + poss chalcopy; ±3% @ above	40°	w bl m s celad; m-s bl m w celad; v.w bl NO tot. s celad	Lt to deep sea grn; mottled buff wh + lt grn; dense deep sea grn

DESCRIPTION

335-437.2 BEDDED BUD

437.2-609.5 LBT

400-437.2 predom whispy bedded bud @ ~ ± 60° to CA.

39.8-411 veining increases & become more open spaced - vuggy up to 20-30 mm w/ powdery white clay + barite + marcasite fill. Averaging 5-9 vns/ft.

411-437.2 veining decreases to ~ ≤ 1-2 vns/ft.

Contact into LBT is weakly transitional w/ tuff frags plucked into Bud LLT. - no good measurable contact.

437.2-609.5 LBT - (652'?)

437.2-449 speckled to vesicular FGT mottled grn + white coloring due to celad + clay filled vesicles + preferential clay alt of feldspar phenos. Moderatly veined - subparelle to CA 1-2mm wide w/ calcite ± qtz + pyrite + kaolinite + marcasite + poss local chalcopy. Veins average ~ 3-7 vns/ft.

449-471.5 Denser welded less altered LBT-FGT peruasively celadonite green & strongly fractured - tightly w/ chlorite ± py ± $CaCO_3$ fill. Overall veining increases w/ m-s kaolinite + marcasite ± $CaCO_3$ + pyrite ? qtz fill. Averaging ± 10 vns/ft. Fine fracture vns up to ± 50/ft.

448-453 w/ ↑ kaolinite + marcasite vns + @ 450' Δ vn well silic. + 2 phases Δ riddled w/ stkwk qtz

NO SAMPLE

ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
433-437.2				<	.04
437.2-443				.010	1.37
443-448				.011	.41
448-453				.029	.90
453-458				.003	.10
458-463				.006	.17
463-468				.006 / <	.13 / .14
468-471.5				.004	.18

HOLE # RL-2086 LOGGED BY KLK DATE 9-91 PAGE 3 OF 6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.	COLOR
480	100	fract vns 80° 90°; 15; 40° CaCO3 clay qtz sulf vns	FAULT	2-3% diss + vn py + marc site		Mbl w ~ m-s XXX w-m celad	Lt sea grn w/ local flesh frags
490	100	10°; 40° clay CaCO3 sulf qtz vns; fract vns 0-90°		~3% @ above		wbl w ~ m-s celad	med deep sea grn
500	100	0°		~2% vn diss py + marc site + chalcopy		M-S bl w-m ~ w celad local w X	Lt GRN
510	99	45° qtz CaCO3 sulf clay vns					
520	101	90° qtz CaCO3 clay sulf vns	28° vn	3-4% @ above + ruby Ag			
530	100	pseudo 30° 90°	60° vn			m-s bl w-m ~ local MX w celad	
540	80						

DESCRIPTION

437.2 - 609.5 LBT

471.5 - 486.5 moderate to str. silicified; brecciated LBT, clasts are celadonite altered; clay replaced with most SiO_2 @ flooding interstices of Δ lattice w/ clasts remaining clay alt. clasts are rounded to subangular. Riddled thruout w/ qtz ± clay mix matrix w/ local pods of $CaCO_3$. Clasts shot thru w/ fine celadon. ± orange hairline stkwk ~2 stages of Δ. local str. white clay + marcasite vns, fract fill + pods. VNing is uncountable

486.5 - 500 LBT - less altered w/ denser welded appearance peru. m-s celadon alt. w/ fine chlorite? filled tight fractures moderate veining consisting of kaolinite + pyrite + marcasite + fine druzy qtz + local $CaCO_3$ averaging ~ 4-7 vns/ft predom sub ∥ to CA
489-491 broken rubble w/ assoc ≈

500 - 564 Bleached Buff LBT w/ w-m peru chlorite vs celad alt intermittently fractured w/ chlorite? ± pyrite filling tight fract surfaces w/ depth ↓ peru. green alt - which is primarily concentrated on fract surfaces

500-516 w-m alteration, wk local tectonic bxa Finely riddled w/ hairline qtz ± lt green clay? stkwk ± local celad weakly veined w/ secondary qtz + up to 1" wide w/ marcasite + chalcopy + local kaolin. pods. stkwk >50/ft vns related to stkwk is 3-5/ft.

531-535.4 speckled vesicular tuff w/ celadonite ± clay fill.

516-539. Intermittent brecciation to vein brecciation w/ predom argillic alt clasts w/ in SiO_2 rich matrix - locally w/ micro Δ w/ subrounded to ∡ clasts ~2 stgs Δ. peru. riddled w/ 2-3 stages of stkwork vning filled w/ qtz $CaCO_3$ kaolinite assoc. sericite + marcasite + py + chalcopy + local wk celadonite + ruby Ag VNS >50/ft

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
471.5-477				.004	.12
477-482				.010	.07
482-487				.002	.06
487-492				.010	.15
492-497				.030	.20
497-502				.009	.13
502-507				.005	.11
507-512.5				.011	.19
512.5-517.5				.035 / .037 / .039	.35
517.5-523				.021	.75
523-528				.216	21.78
528-533				.429	8.49
533-538				.188	.89

HOLE # RL-2086 LOGGED BY KLK DATE 9-91 PAGE 4 OF 6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERALIZATION	GRAPHIC LOG	ALTER.	COLOR
550	86, 89	70-90 9% Sulf clay vns 30° 60° 30° pseudo flo band		2-3% diss tvn py + marcasite + chal copy + wk local ruby Ag		M bl W-M W celad	LT GRN
560	97	0° 45° qtz clay py marc. vns		~2% diss tvn marcasite		M-S bl M tr celad	buff peach flesh W-M X X
570	99						
580	63			4-5% diss tvn py + marcasite + chalcopy		M-S bl M-S	
590	85, 61	90° 9% CaCO3 sulf clay vns		3-4% diss tvn py + marcasite + chalcopy			
600	38, 98				GOUGE		
610	78		FPI cont. cont. 40°		40°	S celad	LT grn

DESCRIPTION

437.2 - 609.5 LBT

535.4 - 560 pseudo flo banded to ~ 30° to CA.
539 - 560 pseudo flo LBT ↓ overall hydro thermal brecciation. Flo feature related to prevalent fracture veining m+ pervasive bl ↳ consisting of kaolinite + sericite + celad + marcasite + py + chalcopyrite + wk ruby Ag + local fine druzy qtz. veining is ∥ or ⊥ to fract vns. 30° - 60° ↳ + local white to cream brittle clays ~ 7 - 30 vns/ft.

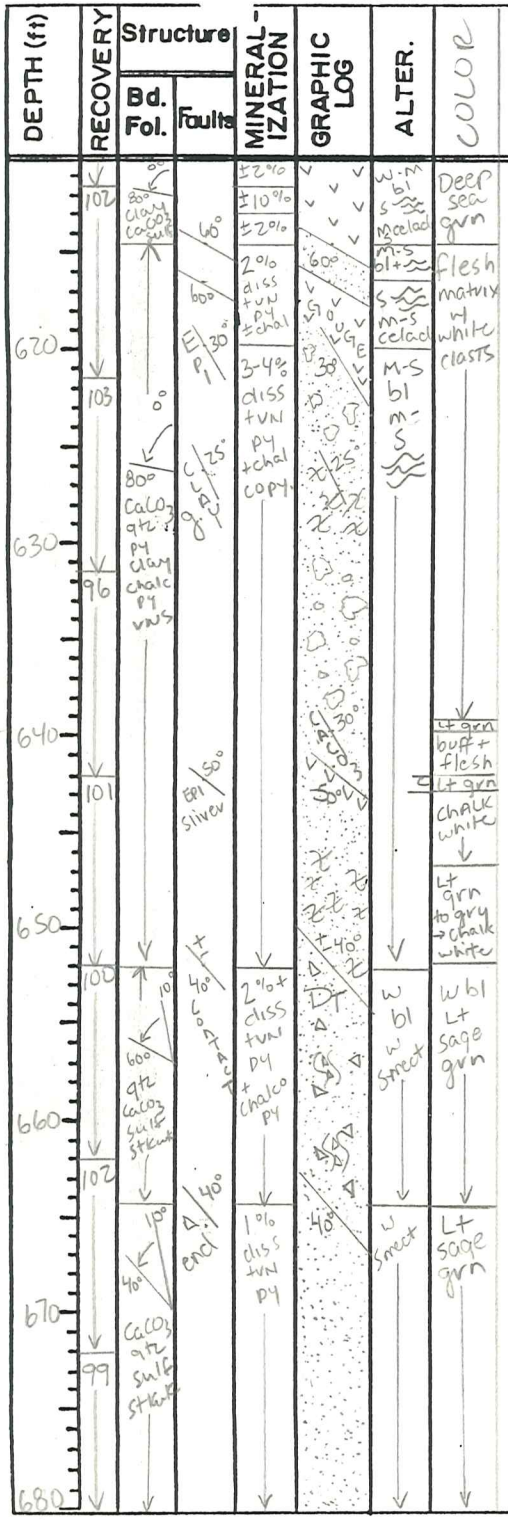
560 - 571 pervasive bl w/ wk flesh to buff color. Intermittent druzy tectonic ∧ weakly veined w/ predom pyrite + wk white kaolin. + tr. celadonite wk only locally fine druzy qtz + sericite assoc w/ kaolin. few local clay stringers filling interstices of rock fabric & fracture surfaces ~ 2-8 vns/ft
566 - 571 w/ wk flesh colored pervasive chalcedonic silicification.

571 - 609.5 Peach/buff LBT - FGT
Intermittent pervasive clay cemented rubble, clay gouge & broken rubble SRF FAULT influence. In zones of broken rubble is clay cemented w/ kaolin ± sericite filling interstices of rock fabric 573 - 578 clay cemented rubble w/ str diss sulf (py) + local black earthy oxide white kaolin + sericite filling fracts. + chalcopy + marca.
578 - 584 fairly competent w/ 2 vn phases, 1) fine hairline kaolin + py ± marcas. ± Ag sulf. + chalcopy 2) coarse 1-3 mm vns of similar compos. rock w/ LLT text. - 2-20 mm ± 30 vns/ft 584 - 594.5 strongly argillized broken rubble - locally clay cemented. vn stringers w/ clay + sulfides @ noted above uncountable
594.5 - 601 fairly competent w/ mod str veins of $CaCO_3$ + celad + kaolin + sericite + chalcopy + py + marcasite + local yellow clay 7-10 vns/ft.
601 - 602.5 fine broken rubble 602.5 - 605 pure lt gray clay gouge w/ few white argillically clay alt clasts. 605 - 609.5 clay cemented rubble & clay gouge. overall % of veining difficult to determine due to intensity of alteration.

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
538-543				.045	.39
543-548				.109	6.42
548-553				.157	4.79 / 4.59
553-558				.173	.95
558-563				.021	.26
563-568				.006	.06
568-571				<	<
571-573				.005 / .008	.11 / .09
573-578				.253	1.11
578-583				.104	1.00
583-588				.086	.26
588-594				.016	.14
594-602.5				.019	.10
602.5-607				.065 / .048	.24 / .28
607-611.5				.002	.04

HOLE # RL-208C LOGGED BY KLK DATE 9-91 PAGE 5 OF 6



DESCRIPTION

609.5 - 614.5 EPICLASTIC - similar to bedded bud - heterolithic. bleached ; clay alt clasts w/in green celadonite alt clay matrix
611.5 - 613 gray clay gouge + tuffaceous sands w/ str. dissem. py.
Thru-out entire zone weak stringers of $CaCO_3$ + clay

616.6 - 618.6 lt green clay gouge cemented rubble + expression of heterolithic bedded epiclastic

614.5 - 616.6
618.6 - 641.6 > Tectonically brecciated vs. secondary Δ LBT - fragmental w/ intermittent prominent flesh matrix w/ micro clasts ≤ 2mm clastic texture is sub-rounded to subangular bl - buff tuff frags pervasive argillic alt. mod. veins throughout which increases w/ depth composed of $CaCO_3$ + py + chalcopy + local Kaolin. - coarse vns 1-4 mm fine stkwk of same compo. - hairline prominent veins average ~ 9 - 22 / ft. up to > 50/ft
626-630 broken rubble w/ assoc. clay alt.
638.8-639 calcite vein

* 639 - 639.5 green clay cemented heterolith epiclast
639.5 - 640.1 clay cemented broken rubble
640.1 - 641.6 competent

* 641.6 - 643.8 heterolithic green clay cemented rubble - w/ EPICLASTIC appearance - clasts all in rounded category

643.8 - 652 Predom clay cemented rubble w/ local competent bl tuff interbeds LBT w/ increased calcite + py ± chalcop + Kaolin vns clay is locally gray - poss sulfide rich.

652 - 692 DOZER TUFF

652 - 664.7 Lt sage green densely welded FGT - intermittently tectonically brecciated - rifelled w/ fine qtz ± py stkwk. weak veining vein Δ w/ qtz + $CaCO_3$ + chalcopy + py averaging ~ 4-12 vns/ft w/ fine stkwk up to > 50/ft

ASSAYS

Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
611.5-616				.030	.22
616-621				<	<
621-626				< / <	.03
626-630				.012	.04
630-635				.002	.04
635-639				<	.03
639-644				<	<
644-646				<	<
646-649				.002	<
649-652				.014	<
652-657				<	<
657-662				↓	↓
662-667				↓	↓
667-672				< / <	<
672-677				<	<
677-682				<	<

HOLE # RL-208C LOGGED BY KLK DATE 9-91 PAGE 6 OF 6

DEPTH (ft)	RECOVERY	Structure: Bd. Fol.	Structure: Faults	MINERAL-IZATION	GRAPHIC LOG	ALTER.	COLOR	DESCRIPTION	ASSAYS: Sample No.	% Cu	% Pb	% Zn	oz/t Au	oz/t Ag
	100	10° 40° CaCO3 py ±qtz vns		±1% diss +vn py		w smect	Lt sage grn	652-692 DT 664.7-692 Relatively unaltered DT - lt sage green - v. dense w few green (smectite?) $CaCO_3$ + py fracture veins + v. fine <1mm fine qtz ± py hairline stkwk. prominent uns ~ ±3/ft 1-3mm	682-687				<	<
									687-692				<	<
692								TD @ 692' Fne stkwk ±12/ft						

GEOTECHNICAL LOG

PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS

HOLE NO.: RL-208C DIP: Vertical CORE SIZE: HQ DATE: 8-26-91

1	2	3	4	5	6	7	8	9	10	11
FROM	TO	CORE RUN	RECOVERED CORE	TOTAL LENGTH OF CORE>4"	NO. OF FRACTURES	CORE RECOVERY (%) (4/3 X 100)	R.Q.D. (%) (5/3 X 100)	FRACTURES PER FT. (6/4)	RANGE OR AVERAGE ANGLE OF FRACTURE W.R.T. CORE AXIS	REMARKS
335	340	5'	4.75	3.9	5	95	78	1.1	35-45°	VN/TH, FD/QTZ, CLY/W-R
340	345	5'	4.95	4.65	3	99	93	0.6	20-40°	J, VN/TH, FD/CLY/R
345	350	5'	5.0	5.0	2	100	100	0.4	65-85°	J, VN/TH, FD/CLY/W-R
350	355	5'	5.0	5.0	4	100	100	0.8	40-55°	J, VN/TH, FD/CLY/W-R
355	360	5'	4.8	4.8	3	96	96	0.8	15-40°	VN/TH-OP, FD/CLY, QTZ/R
					1				70°	J, VN/TH, FD/CLY/PL, W
360	365	5'	4.95	4.95	2	99	99	0.4	0-30°	VN, ±VG/TH, FD/CLY, QTZ/R
365	370	5'	4.85	4.85	1	97	97	0.2	45°	J, VN/TH, FD/CLY/W
370	375	5'	4.95	4.95	2	99	99	0.6	65-75°	J, VN/TH, FD/CLY/W
					1				30°	VN/TH, FD/CLY, QTZ/R
375	380	5'	4.9	4.9	4	98	98	0.8	35-60°	J, VN/TH, FD/CLY/R
380	385	5'	5.05	4.35	9	101	87	1.8	0-60°	J, VN/TH, FD/CLY/W-R
385	390	5'	4.6	3.6	2	92	72	1.7	10-20°	VN/TH, FD/CLY, ±CAL/PL, R
					6				40-80°	J, VN/TH, FD/CLY/W
390	395	5'	5.0	3.4	5	100	68	2.0	15-45°	VN/TH, FD/CLY, ±CAL/W-R
					5				50-70°	J, VN/TH, FD/CLY/W-R
395	400	5'	4.7	4.3	4	94	86	1.3	40-75°	J, VN/TH, FD/CLY/W-R
					2				45°	VN, ±VG/TH-OP, FD/QTZ, CLY/PL-R
400	405	5'	5.1	3.9	7	102	78	1.4	0-60°	VN, ±VG/TH-OP, FD/QTZ, CLY, ±BAR/R
405	410	5'	4.55	4.25	5	91	85	1.1	60-75°	J, VN/TH, FD/CLY/W-R
410	415	5'	4.95	4.85	1	99	97	0.2	50°	J, VN/TH, FD/CLY/R
415	420	5'	5.0	4.15	7	100	83	1.4	60-80°	J, VN/TH, FD/CLY W-R
420	425	5'	4.9	3.6	8	98	72	2.7	65-80°	J, VN/TH, FD/CLY/W-R
					5				25-35°	J, VN/TH, FD/CLY/PL
425	430	5'	4.75	4.5	6	95	90	1.3	55-80°	J, VN/TH, FD/CLY/W
430	437.2	7.2'	7.05	6.55	11	98	91	1.6	30-90°	J, VN/TH, FD/CLY/W-R
										Note: 437.2' Contact W/LBT
437.2	445	7.8'	7.6	7.6	5	97	100	0.7	30-80°	VN/TH, FD/CLY, ±MAR/W-R
445	450	5'	5.35	5.2	4	107	104	1.1	15-30°	VN/TH, FD/CLY, ±CAL/PL-W
					2				30°	VN, VG/TH-OP, FD/CLY, ±QTZ, ±CAL/R
450	455	5'	5.0	4.75	5	100	95	1.0	5-70°	VN/TH, FD/CLY/PL-W

GEOTECHNICAL LOG

PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS

HOLE NO.: RL-208C DIP: Vertical CORE SIZE: HQ DATE: 8-28-91

1	2	3	4	5	6	7	8	9	10	11
FROM	TO	CORE RUN	RECOVERED CORE	TOTAL LENGTH OF CORE>4"	NO. OF FRACTURES	CORE RECOVERY (%) (4/3 X 100)	R.Q.D. (%) (5/3 X 100)	FRACTURES PER FT. (6/4)	RANGE OR AVERAGE ANGLE OF FRACTURE W.R.T. CORE AXIS	REMARKS
455	460	5'	4.5	4.15	7	90	83	1.6	25-75°	VN/TH, FD/CLY, CAL/PL-R
460	465	5'	5.0	3.3	14	100	66	2.8	0-70°	VN/TH, FD/CLY/PL-R
465	470	5'	4.7	3.0	10	94	60	2.1	15-75°	VN/TH, FD/CLY, ± CAL/PL-R
										Note: 469'-470', Broken rubble.
470	475	5'	4.75	3.6	10	95	72	2.1	25-45°	VN/TH, FD/CLY/R
475	480	5'	4.55	4.3	4	91	86	0.9	10-60°	VN/TH, FD/CLY, ± CAL/R
480	485	5'	5.05	5.05	1	101	101	0.2	15°	VN, VG/TH-OP, FD/QTZ, CLY/R
485	490	5'	4.9	3.4	7	98	68	1.4	0-90°	VN/TH, FD/CLY, ± CAL/PL-R
										Note: 489'-490.8' Broken rubble
490	495	5'	4.85	3.65	10	97	73	2.1	0-55°	VN/TH, FD/CLY/W-R
495	500	5'	5.2	3.55	16	104	71	3.1	0-75°	J, VN/TH, FD/CLY, PL-R
500	505	5'	5.0	4.4	6	100	88	1.2	55-75°	VN/TH, FD/CLY/R
505	510	5'	4.7	4.7	4	94	94	0.9	30-60°	VN/TH, FD/CLY, ± CAL/W-R
510	515	5'	4.9	4.15	5	98	83	1.0	15-45°	VN/TH, FD/CLY, ± CAL/W-R
515	520	5'	4.8	4.8	4	96	96	0.8	40-55°	VN/TH, FD/CLY/W-R
520	525	5'	4.8	3.55	15	96	71	3.1	0-70°	VN/TH, FD/CLY/PL-R
525	530	5'	4.9	4.35	7	98	87	1.4	30-75°	VN/TH, FD/CLY/W-R
530	535	5'	5.05	2.65	14	101	53	2.8	30-80°	VN/TH, FD/CLY, CAL/W-R
535	540	5'	5.0	4.2	9	100	84	1.8	25-60°	VN/TH, FD/CLY/PL-R
540	545	5'	4.4	3.8	11	88	76	2.5	40-80°	VN/TH, FD/CLY, ± CAL/W-R
545	550	5'	5.0	3.3	13	100	66	2.6	30-85°	VN/TH, FD/CLY/W-R
550	555	5'	4.7	3.6	13	94	72	2.8	20-80°	VN/TH, FD/CLY, ± CAL/PL-R
555	560	5'	4.2	2.05	9	84	41	2.1	5-60°	VN/TH, FD/CLY/PL-R
										Note: Zones of broken rubble; 558.5'-559', clay gouge
560	565	5'	4.8	3.2	5	96	64	1.0	10-65°	VN/TH-OP, FD/CLY/R
										Note: Zones of clayey rubble @ 563.5' and 564.5'
565	573	8'	6.8	3.8	15	85	46	2.4	15-70°	VN/TH, FD/CLY/R
					1				40°	VN, VG/OP, FD/QTZ/R
										Note: 571'-573', Broken rubble
573	580	7'	3.2	2.8	SEE NOTE	46	40			Note: 573'-581' clay-gouged core
580	585	5'	4.6	0.85	" "	92	17			Note: Mostly clay-gouge and short core chunks

GEOTECHNICAL LOG

PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS

HOLE NO.: RL-298C DIP: Vertical CORE SIZE: HQ DATE: 8-28-91

1	2	3	4	5	6	7	8	9	10	11
FROM	TO	CORE RUN	RECOVERED CORE	TOTAL LENGTH OF CORE>4"	NO. OF FRACTURES	CORE RECOVERY (%) (4/3 X 100)	R.Q.D. (%) (5/3 X 100)	FRACTURES PER FT. (6/4)	RANGE OR AVERAGE ANGLE OF FRACTURE W.R.T. CORE AXIS	REMARKS
585	595	10'	6.2	0.0		62	0			Note: Clay gouge zone
595	605	10'	5.0	1.95		50	20			Note: Clay gouge, sand, and broken rubble.
605	610	5'	3.5	1.1		70	22			Note: " " "
610	615	5'	4.4	1.3		88	26			Note: " " "
615	620	5'	5.05	3.1	11	101	62	2.18	40-65°	VN/TH-OP, FD/CLY/W-R
620	625	5'	5.0	4.25	7	100	85	1.4	0-60°	VN/TH-OP, FD/CLY, ± CAL/R
625	630	5'	5.2	1.5	4	104	30	.77	45-65°	VN/TH, FD/CLY, ± CAL/R
										Note: 626'-629.5' Broken rubble
630	635	5'	4.8	3.0	12	96	60	2.5	0-65°	VN/TH-OP, FD/CLY, CAL/R
										Note: Small clay gouges at 631' and 632'
635	640	5'	4.6	3.45	6	92	69	1.3	5-60°	VN/TH-OP, FD/CLY, CAL/R
640	645	5'	4.75	3.65		95	73			Note: Clay-gouge zones @ 639'-640.5' and 641.5'-643.5'
					8			1.68	0-80°	VN/TH-OP, FD/CLY, ± CAL/R
645	652	7'	6.5	5.45		93	78			Note: 647.5'-652' Clay-gouged zone
652	660	8'	8.0	8.0	4	100	100	.5	40-60°	VN/TH, FD/CAL, CLY/PL
660	665	5'	4.85	4.85	3	97	97	.62	25-50°	VN/TH, FD/CAL, CLY/PL
665	670	5'	5.15	4.95	5	103	99	.97	35-80°	VN/TH, FD/CLY, CAL/PL-W
670	675	5'	5.0	5.0	4	100	100	.80	35-55°	VN/TH, FD/CAL, CLY/PL, W
675	680	5'	5.05	5.05	4	101	101	.79	40-70°	VN/TH, FD/CAL, CLY/PL
680	685	5'	5.0	5.0	1	100	100	.2	55°	VN/TH, FD/CAL, CLY/PL
685	692	7'	7.1	7.1	2	101	101	.28	45-50°	VN/TH, FD/CAL, CLY/PL
	T.D. 692'									

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SEP 30 1991

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11922.4 (COMPLETE)

REFERENCE INFO: RL208C 563 TO 692

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

SUBMITTED BY: KENNER
DATE PRINTED: 24-SEP-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	29	0.002 OPT		Fire Assay
2	Au DUP	Gold Duplicate	4	0.002 OPT		Fire Assay
3	AG DUP	AG DUPLICATE	3	0.02 OPT		Fire Assay
4	Ag	Silver	29	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption

SAMPLE TYPES		NUMBER	SIZE FRACTIONS		NUMBER	SAMPLE PREPARATIONS	NUMBER
D	DRILL CORE	28	2	-150	28	SAMPLE PREP <100LBS	28
P	PREPARED PULP	1	4	AS REC'D	1	AS RECEIVED, NO SP	1

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 24-SEP-91

REPORT: R91-11922.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
AU ASSAY STD		0.011	-	-	-
Number of Analyses		1	-	-	-
Mean Value		0.0110	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		0.015	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-
Number of Analyses		1	-	-	-
Mean Value		0.0010	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		0.002	-	-	-
GEO TRACE STD1(1989)		-	-	-	0.94
Number of Analyses		-	-	-	1
Mean Value		-	-	-	0.943
Standard Deviation		-	-	-	-
Accepted Value		-	-	-	1.05
AG ASSAY		-	-	-	3.04
Number of Analyses		-	-	-	1
Mean Value		-	-	-	3.044
Standard Deviation		-	-	-	-
Accepted Value		-	-	-	3.03

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11922.4 (COMPLETE)

REFERENCE INFO: RL2108C 563 TO 692

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

SUBMITTED BY: KENNER
DATE PRINTED: 24-SEP-91

ORDER	ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au Gold	29	0.002 OPT		Fire Assay
2	Au DUP Gold Duplicate	4	0.002 OPT		Fire Assay
3	AG DUP AG DUPLICATE	3	0.02 OPT		Fire Assay
4	Ag Silver	29	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	28	2 -150	28	SAMPLE PREP <100 GS	28
P PREPARED PULP	1	4 AS REC'D	1	AS RECEIVED, NO SP	1

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Geochemical Lab Report

DATE PRINTED: 24-SEP-91

REPORT: R91-11922.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
D2 RL208C 563 568		0.0016			0.06
D2 RL208C 568 571		<0.0002			<0.02
D2 RL208C 571 573		0.0018	0.0018	0.11	0.09
D2 RL208C 573 578		0.253			1.11
D2 RL208C 578 583		0.104			1.00
D2 RL208C 583 588		0.086			0.26
D2 RL208C 588 594		0.016			0.14
D2 RL208C 594 602.5		0.019			0.10
D2 RL208C 602.5 607		0.048	0.065	0.28	0.24
D2 RL208C 607 611.5		0.002			0.04
D2 RL208C 611.5 616		0.030			0.22
D2 RL208C 616 621		<0.0002			<0.02
D2 RL208C 621 626		<0.0002	<0.0002		0.03
D2 RL208C 626 630		0.012			0.04
D2 RL208C 630 635		0.002			0.04
D2 RL208C 635 639		<0.0002			0.03
D2 RL208C 639 644		<0.0002			<0.02
D2 RL208C 644 646		<0.0002			<0.02
D2 RL208C 646 649		0.002			<0.02
D2 RL208C 649 652		0.014			<0.02
P4 BA 98		~~0.030~~		~~0.26~~	~~0.26~~
D2 RL208C 652 657		<0.0002			<0.02
D2 RL208C 657 662		<0.0002			<0.02
D2 RL208C 662 667		<0.0002			<0.02
D2 RL208C 667 672		<0.0002	<0.0002		<0.02
D2 RL208C 672 677		<0.0002			<0.02
D2 RL208C 677 682		<0.0002			<0.02
D2 RL208C 682 687		<0.0002			<0.02
D2 RL208C 687 692		<0.0002			<0.02

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 24-SEP-91

REPORT: R91-11922.4 (COMPLETE)

PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
AU ASSAY STD		0.011	-	-	-
Number of Analyses		1	-	-	-
Mean Value		0.0110	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		0.015	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-
Number of Analyses		1	-	-	-
Mean Value		0.0010	-	-	-
Standard Deviation		-	-	-	-
Accepted Value		0.002	-	-	-
GEO TRACE STD1(1989)		-	-	-	0.94
Number of Analyses		-	-	-	1
Mean Value		-	-	-	0.943
Standard Deviation		-	-	-	-
Accepted Value		-	-	-	1.05
AG ASSAY		-	-	-	3.04
Number of Analyses		-	-	-	1
Mean Value		-	-	-	3.044
Standard Deviation		-	-	-	-
Accepted Value		-	-	-	3.03

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11920.4 (COMPLETE)

REFERENCE INFO: RL208C 50 TO 335

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

SUBMITTED BY: KENNER
DATE PRINTED: 19-SEP-91

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

SAMPLE TYPES		NUMBER	SIZE FRACTIONS		NUMBER	SAMPLE PREPARATIONS	NUMBER
Z	OTHER DRILL TYPES	31	2	-150	31	SAMPLE PREP <100LBS	31
P	PREPARED PULP	1	4	AS REC'D	1	AS RECEIVED, NO SP	1

NOTES: # Indicates ERRATIC RESULTS

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11920.4 (COMPLETE)

DATE PRINTED: 19-SEP-91
PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	AG DUP OPT	Ag OPT	AU Dup OPT	AU Dup OPT
ASSAY STD		0.014	-	0.06	-	-
Number of Analyses		1	-	1	-	-
Mean Value		0.0140	-	0.060	-	-
Standard Deviation		-	-	-	-	-
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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RL208

SEP 30 1991

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11846.4 (COMPLETE)

REFERENCE INFO: RL 208C 433-563

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

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

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold	27	0.002 OPT		Fire Assay
2	Au DUP	Gold Duplicate	3	0.002 OPT		Fire Assay
3	AG DUP	AG DUPLICATE	2	0.02 OPT		Fire Assay
4	Ag	Silver	27	0.02 OPT	MULT ACID TOT DIG	Atomic Absorption
5	AU Dup	Gold Duplicate	1	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	26	2 -150	26	CRUSH,PULVERIZE -150	26
P PREPARED PULP	1	4 AS REC'D	1	AS RECEIVED, NO SP	1
				DRYING/SAMPLE	26

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: R91-11846.4 (COMPLETE)

DATE PRINTED: 25-SEP-91
PROJECT: ROSEBUD

STANDARD NAME	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
AU PULP STD		0.196	-	-	-	-
Number of Analyses		1	-	-	-	-
Mean Value		0.1960	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		0.184	-	-	-	-
ANALYTICAL BLANK		<0.002	-	-	-	-
Number of Analyses		1	-	-	-	-
Mean Value		0.0010	-	-	-	-
Standard Deviation		-	-	-	-	-
Accepted Value		0.002	-	-	-	-
GEO TRACE STD1(1989)		-	-	-	0.94	-
Number of Analyses		-	-	-	1	-
Mean Value		-	-	-	0.940	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	1.05	-
AG ASSAY		-	-	-	2.87	-
Number of Analyses		-	-	-	1	-
Mean Value		-	-	-	2.870	-
Standard Deviation		-	-	-	-	-
Accepted Value		-	-	-	3.03	-

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RL208
Ag assay
OCT 2 1991

Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11846.6 (COMPLETE)

REFERENCE INFO: RL 208C 433-563

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

SUBMITTED BY: KENNER
DATE PRINTED: 26-SEP-91

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	1	0.02 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	1	2 -150	1	REMOVE FROM STORAGE	1

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11920.4 (COMPLETE)

DATE PRINTED: 19 SEP 91
PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	AG DUP OPT	Ag OPT	AU Dup OPT	AU Dup OPT
RL208C 50 55		<0.002	0.03	<0.02	<0.002	
Duplicate		<0.002		0.03		
RL208C 175 180		0.002	<0.02	<0.02	<0.002	<0.002
Duplicate		<0.002		<0.02		
RL208C 205 210		<0.002		<0.02		
Prep Duplicate		<0.002	<0.02	0.02	<0.002	
RL208C 230 235		0.002	0.03	0.02	0.003	
Duplicate		0.003		0.03		
Prep Duplicate		<0.002	<0.02	0.02	<0.002	
Duplicate		<0.002		<0.02		

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Geochemical Lab Report

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REPORT: R91-11846.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
RL208C 463 468		0.006	<0.002	0.14	0.13	
Duplicate		<0.002			0.14	
RL208C 512.5 517.5		0.037	0.035		0.35	0.039
Duplicate		0.039				
RL208C 523 528		0.216	0.239		>10.00	
Prep Duplicate		0.239			>10.00	
RL208C 548 553		0.157		4.79	4.59	
Duplicate					4.79	

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Geochemical Lab Report

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DATE PRINTED: 24-SEP-91

REPORT: R91-11922.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
RL208C 571 573		0.008	0.008	0.11	0.09
Duplicate		0.008			0.11
RL208C 602.5 607		0.048	0.065	0.28	0.24
Prep Duplicate		0.065			0.28
RL208C 621 626		<0.002	<0.002		0.03
Duplicate		<0.002			
BA 98		0.030		0.26	0.26
Duplicate					0.26
RL208C 667 672		<0.002	<0.002		<0.02
Duplicate		<0.002			

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PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
RL208C 571 573		0.008	0.008	0.11	0.09
Duplicate		0.008			0.11
RL208C 602.5 607		0.048	0.065	0.28	0.24
Prep Duplicate		0.065			0.28
RL208C 621 626		<0.002	<0.002		0.03
Duplicate		<0.002			
BA 98		0.030		0.26	0.26
Duplicate					0.26
RL208C 667 672		<0.002	<0.002		<0.02
Duplicate		<0.002			

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Geochemical Lab Report

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REPORT: R91-11922.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT
D2 RL208C 563 568		0.0016			0.06
D2 RL208C 568 571		<0.002			<0.02
D2 RL208C 571 573		0.0018	0.0018	0.11	0.09
D2 RL208C 573 578		0.253			1.11
D2 RL208C 578 583		0.104			1.00
D2 RL208C 583 588		0.086			0.26
D2 RL208C 588 594		0.016			0.14
D2 RL208C 594 602.5		0.019			0.10
D2 RL208C 602.5 607		0.048	0.065	0.28	0.24
D2 RL208C 607 611.5		0.002			0.04
D2 RL208C 611.5 616		0.030			0.22
D2 RL208C 616 621		<0.002			<0.02
D2 RL208C 621 626		<0.002	<0.002		0.03
D2 RL208C 626 630		0.012			0.04
D2 RL208C 630 635		0.002			0.04
D2 RL208C 635 639		<0.002			0.03
D2 RL208C 639 644		<0.002			<0.02
D2 RL208C 644 646		<0.002			<0.02
D2 RL208C 646 649		0.002			<0.02
D2 RL208C 649 652		0.014			<0.02
P4 BA 98		0.030		0.26	0.26
D2 RL208C 652 657		<0.002			<0.02
D2 RL208C 657 662		<0.002			<0.02
D2 RL208C 662 667		<0.002			<0.02
D2 RL208C 667 672		<0.002	<0.002		<0.02
D2 RL208C 672 677		<0.002			<0.02
D2 RL208C 677 682		<0.002			<0.02
D2 RL208C 682 687		<0.002			<0.02
D2 RL208C 687 692		<0.002			<0.02

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Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11920.4 (COMPLETE)

~~DATE PRINTED: 19 SEP 91~~
PROJECT: ROSEBUD PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	AG DUP OPT	Ag OPT	AU Dup OPT	AU Dup OPT
Z2 RL208C 50 55		<0.002	0.03	<0.02	<0.002	
Z2 RL208C 70 75		0.002		<0.02		
Z2 RL208C 80 85		0.002		<0.02		
Z2 RL208C 85 90		0.003		<0.02		
Z2 RL208C 95 100		<0.002		<0.02		
Z2 RL208C 110 115		<0.002		<0.02		
Z2 RL208C 120 125		<0.002		<0.02		
Z2 RL208C 135 140		<0.002		<0.02		
Z2 RL208C 155 160		<0.002		<0.02		
Z2 RL208C 165 170		<0.002		<0.02		
Z2 RL208C 175 180		0.002	<0.02	<0.02	<0.002	<0.002
Z2 RL208C 180 185		<0.002		<0.02		
Z2 RL208C 185 190		0.003		<0.02		
Z2 RL208C 190 195		0.003		<0.02		
Z2 RL208C 195 200		0.002		<0.02		
Z2 RL208C 200 205		<0.002		<0.02		
Z2 RL208C 205 210		<0.002		<0.02		
Z2 RL208C 210 215		0.003		<0.02		
Z2 RL208C 215 220		0.002		<0.02		
Z2 RL208C 220 225		<0.002		<0.02		
~~P4 BA 101~~		~~0.038~~		~~0.17~~		
Z2 RL208C 225 230		<0.002		<0.02		
Z2 RL208C 230 235		0.002	0.03	0.02	0.003	
Z2 RL208C 235 240		0.002		0.03		
Z2 RL208C 240 245		0.002		0.02		
Z2 RL208C 250 255		0.006		0.06		
Z2 RL208C 265 270		0.004		0.06		
Z2 RL208C 280 285		0.002		0.02		
Z2 RL208C 295 300		0.003		0.04		
Z2 RL208C 300 305		0.002		0.05		
Z2 RL208C 315 320		0.003	0.42	0.33#		
Z2 RL208C 330 335		0.007		0.04		

Bondar-Clegg, Inc.
625 Spice Island Dr.
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BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 25-SEP-91

REPORT: R91-11846.4 (COMPLETE)

PROJECT: ROSEBUD

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Au DUP OPT	AG DUP OPT	Ag OPT	AU Dup OPT
D2 RL208C 433 437.2		<0.002			0.04	
D2 RL208C 437.2 443		0.010			1.37	
D2 RL208C 443 448		0.011			0.41	
D2 RL208C 448 453		0.029			0.90	
D2 RL208C 453 458		0.003			0.10	
D2 RL208C 458 463		0.006			0.17	
D2 RL208C 463 468		0.006	<0.002	0.14	0.13	
D2 RL208C 468 471.5		0.004			0.18	
D2 RL208C 471.5 477		0.004			0.12	
D2 RL208C 477 482		0.010			0.07	
D2 RL208C 482 487		0.002			0.06	
D2 RL208C 487 492		0.010			0.15	
D2 RL208C 492 497		0.030			0.20	
D2 RL208C 497 502		0.009			0.13	
D2 RL208C 502 507		0.005			0.11	
D2 RL208C 507 512.5		0.011			0.19	
D2 RL208C 512.5 517.5		0.037	0.035		0.35	0.039
D2 RL208C 517.5 523		0.021			0.75	
D2 RL208C 523 528		0.216	0.239		>10.00	
D2 RL208C 528 533		0.429			8.49	
P4 BA 171		0.033			0.25	
D2 RL208C 533 538		0.188			0.89	
D2 RL208C 538 543		0.045			0.39	
D2 RL208C 543 548		0.109			6.42	
D2 RL208C 548 553		0.157		4.79	4.59	
D2 RL208C 553 558		0.173			0.95	
D2 RL208C 558 563		0.021			0.26	

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BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

DATE PRINTED: 26-SEP-91

PROJECT: ROSEBUD

REPORT: R91-11846.6 (COMPLETE)

SAMPLE NUMBER	ELEMENT UNITS	Au OPT
D2 RL2108C 523 528		21.78

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: 14-SEP-91
Invoice No. : I9121509
P.O. Number :

CERTIFICATE OF ANALYSIS A9121509

SAMPLE DESCRIPTION	PREP CODE		Au oz/T
RL207C 175-180	208	294	0.004
RL207C 390-395	208	294	0.002
RL208C 165-170	208	294	0.001
RL208C 220-225	208	294	< 0.001
RL208C 315-320	208	294	0.002
RL208C 607-611.5	208	294	0.005
RL208C 649-652	208	294	0.014
RL209C 145-150	208	294	< 0.001
RL210C 100-105	208	294	0.001
RL210C 215-220	208	294	0.001
RL210C 302.5-306	208	294	0.002
RL210C 353-358	208	294	0.001
RL210C 400-405	208	294	0.003
RL210C 448-453	208	294	0.006
RL210C 492-497	208	294	0.008
RL210C 542-547	208	294	0.017
RL216 045-050	208	294	0.003
RL216 095-100	208	294	0.002
RL216 145-150	208	294	0.002
RL216 195-200	208	294	0.003
RL216 245-250	208	294	0.002
RL216 295-300	208	294	0.007
RL216 345-350	208	294	0.005
RL241C 059-064	208	294	0.001
RL241C 117-122	208	294	0.002
RL241C 164-167	208	294	0.003

CERTIFICATION: Sandra M Adam

Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 West Glendale Ave., Suite 7, Sparks,
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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
C-00820	205	294	0.001
C-00821	205	294	0.001
C-00822	205	294	0.001
C-00823	205	294	0.001
C-00824	205	294	0.003
C-00825	205	294	0.002
C-00826	205	294	< 0.001
C-00827	205	294	< 0.001
C-00828	205	294	< 0.001
C-00829	205	294	< 0.001
C-00830	205	294	< 0.001
RL104 787-792	205	294	0.074
RL104 837-842	205	294	0.141
RL104 887-892	205	294	0.026
RL104 937-942	205	294	0.029
RL104 982-987	205	294	0.010
RL206C 828-833	205	294	0.006
RL206C 833-838	205	294	0.004
RL206C 838-843	205	294	0.005
RL206C 843-848	205	294	0.003
RL206C 848-853	205	294	0.009
RL206C 853-858	205	294	0.017
RL206C 858-863	205	294	0.006
RL206C 863-868	205	294	0.001
RL206C 868-873	205	294	0.001
RL206C 873-878	205	294	0.001
RL207C 523-528	205	294	0.002
RL207C 573-578	205	294	0.001
RL207C 623-628	205	294	0.002
RL207C 673-678	205	294	0.012
RL207C 720-724	205	294	0.004
RL207C 764-769	205	294	0.002
RL207C 813-818	205	294	0.008
RL207C 918-923	205	294	0.003
RL207C 968-973	205	294	< 0.001
RL207C 1018-1023	205	294	0.001
RL208C 477-482	205	294	0.011
RL208C 528-533	205	294	0.484
RL215 095-100	205	294	0.002
RL215 145-150	205	294	0.002

LAC

CERTIFICATION: Sandra M Adam