60001422

Mining District File Summary Sheet

| | |
|---|---|
| DISTRICT | Rosebud |
| DIST_NO | 4010 |
| COUNTY<br>If different from written on document | Pershing |
| TITLE<br>If not obvious | Rosebud Drill Hole File - Hole No. RL-202C |
| AUTHOR | K. Kenner; T Kuhl; R. Donata; C Howard |
| DATE OF DOC(S) | 1991 |
| MULTI_DIST Y / (N?)<br>Additional Dist_Nos: | |
| QUAD_NAME | Sulphur 7.5' |
| P_M_C_NAME<br>(mine, claim & company names) | Rosebud Mine; Rosebud Project; Coates Drilling; Lac Minerals (USA), Inc; Bondar-Clegg, Inc Chemex Labs, Inc |
| COMMODITY<br>If not obvious | gold silver |
| NOTES | Drill log; geology; assay; total depth 803'; handwritten notes<br><br>33p. |

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)

Revised: 1/22/08

| | Initials | Date |
|---|---|---|
| SS: | DD | 5/20/08 |
| DB: | mah | |
| SCANNED: | | |

DRILL LOGS RL-202
Rosebud

6000 1422 4010 ✓

60001422

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

## DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD

HOLE NUMBER RL-202C TOTAL DEPTH 803 LOGGED BY KLK

Date started 7-26-91

Date completed 7-28-91

Initial bearing vertical

Initial inclination

Elevation 5241.0

Collar coordinates:

N 2203764.0

E 481964.5

Contractor: COATES

Drill Type: UDR

Hole Size: HQ → N

Drilling Conditions:

Footage: Wet / Dry

Comments:

DOWN HOLE SURVEY INFORMATION

| FROM | TO | SURVEY POINT | INCLI-NATION | BEARING | X (Northing) | Y (Easting) | Z (Elevation) |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
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LAC MINERALS (U.S.A.) INC.
ROSEBUD PROJECT

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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

DRILL HOLE RL-2024

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 | % WASH RECOV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Qal | | | | | | | | | | | | | | | | | |
| 05 | UB | N XXX | | | | | | | Pale Grn w Tan | | | | | UB Mod Cel | | | | |
| 10 | | N XXX | | | | | | | | | | | | | | | | |
| 15 | | N XXX | | | | | | | Pale Green | | | | | | | | | |
| 20 | | N XXX | | | | | | | | | | | | | < | .03 | | |
| 25 | | N XXX | | | | | | | Tan, Pale Green | | | | | | | | | |
| 30 | | N XXX | | | | | | | Pale Green Tan | | | | | | | | | |
| 35 | | N XX | | | | | | | | | | | | Stng Cel | </< | </.03 | | |
| 40 | | N XX | | | | | | | | | | | | | | | | |
| 45 | | N XX | | | | | | | | | | | | Mod Cel | | | | |
| 50 | | N XX | | | | | | | | | | | | | < | .04 | | |
| 55 | | N XX | | | | | | | | | | | | | | | | |
| 60 | | N XXX | | | | | | | | | | | | Stng Cel Wk Cel | | | | |
| 65 | | N XXX | | | | | | | | | | | | | < | .04 | | |
| 70 | | N XXX | | | | | | | | | | | | | | | | |
| 75 | | N XXX | | | | | | | | | | | | | | | | |
| 80 | | N XX | | | | | | | | | | | | | < | .11 | | |
| 85 | | N XX | | | | | | | | | | | | Stng Cel | | | | |
| 90 | | N XX | | | | | | | | | | | | | | | | |
| 95 | UB | N XX | | | | | | | | | | | | | .004 | .06 | | |
| 100 | | | | | | | | | | | | | | | | | | |

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

DRILL HOLE RL-2020

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 | % WASH RECOV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | UB | N XX | | | | | | | orange mod GY LTGY | | | | | UB 5fng Cel WK Bleach Redox Zone | .003 | .08 | | |
| 105 | | N XX | | | | | | | | | | | .5 | Wk struck Controlled ox | | | | |
| 110 | | N XX | | | | | | | | | | | 1 | | | | | |
| 115 | | N XX | | | | | | | | | | | | | | | | |
| 120 | | N XX | | | | | | | med GY GY/Grn | | | | 1 | mod Cel mod Bleach | < | .65 | | |
| 125 | | N XX | | | | | | | | | | | TR | | | | | |
| 130 | | N XX | | | | | | | | | | | .5 | | | | | |
| 135 | | N XX | | | | | | | | | | | 1 | | <.003 | .06/.05 | | |
| 140 | | N XX | | | | | | | | | | | 1.0 | WK Bleach | | | | |
| 145 | | N XX | | | | | | | | | | | 1 | mod Bleach | < | .06 | | |
| 150 | | N XXX | | | | | | | LTGY/Grn | | | | .5 | 5fng Bleach | | | | |
| 155 | UB | N XXXX | | | | | | | | | | | 1.5 | UB WK Cel Micro Bxt Qtz A/Veins | < | .03 | | |
| 160 | TMB | N XXXX | | | | | | | LTGY | | | | 1 | TMB | .005 | .04 | | |
| 165 | | N XXXX | | | | | | | | | | | | | .024 | .04 | | |
| 170 | | N XXXX | | | | | | | | | | | | | .002 | .04 | | |
| 175 | | N XXXX | | | | | | | | | | | | | .002/< | .03/.03 | | |
| 180 | | N XXXX | | | | | | | | | | | | | < | .03 | | |
| 185 | | N XXXX | | | | | | | | | | | | | < | .03 | | |
| 190 | | N XXXX | | | | | | | | | | | | | < | .05 | | |
| 195 | | N XXXX | | | | | | | | | | | | | .002 | .05 | | |
| 200 | TMB | N XXXX | | | | | | | | | | | | TMB | < | .01 | | |

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FINE-GRAINED TUFF
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ARGILLIC
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OX OXIDIZED
XXX DRUZY QUARTZ
XC CHALCEDONIC QUARTZ
XK STOCKWORK QUARTZ
P P P PROPYLITIZATION
Ca CALCITE

DRILL HOLE RL-202



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 | % WASH RECOV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TMB | N | | | | | | | LTGY | | | | 1.5 | TMB STNG Bleach QTZ PY Veins | < | .04 | | |
| 205 | | N | | | | | | | | | | | 2 | | .002 | .04 | | |
| 210 | | | | | | | | | | | | | 1 | | < | .04 | | |
| 215 | | | | | | | | | | | | | 1.5 | | < | .04 | | |
| 220 | | | | | | | | | | | | | 1 | | .002 / < | .03 | | |
| 225 | | | | | | | | | | | | | 1 | | .002 | .04 | | |
| 230 | | | | | | | | | | | | | 1.5 | DKGY Qtz PY Veins | .002 | .07 | | |
| 235 | | | | | | | | | | | | | 1 | | .014 | .07 | | |
| 240 | | | | | | | | | | | | | 1 | | .003 | .05 | | |
| 245 | | | | | | | | | | | | | 1 | | .003 | .04 | | |
| 250 | | | | | | | | | | | | | 1.5 | | .036 | .13 | | |
| 255 | | | | | | | | | | | | | 1 | Qtz PY Veins | .002 | .06 / .07 | | |
| 260 | | | | | | | | | | | | | 1 | | .003 / .003 | .09 / .08 | | |
| 265 | | | | | | | | | | | | | 2.0 | | < | .07 | | |
| 270 | | | | | | | | | | | | | 1.5 | | .010 | .10 | | |
| 275 | | | | | | | | | | | | | 1 | | .003 / .006 | .06 | | |
| 280 | | | | | | | | | | | | | 1 | | .005 | .07 | | |
| 285 | | | | | | | | | | | | | 1.5 | DKGY Qtz PY Veins | < | .07 | | |
| 290 | | | | | | | | | | | | | 1 | | < | .06 | | |
| 295 | TMB | | | | | | | | | | | | 1 | TMB | < | .06 | | |
| 300 | | | | | | | | | | | | | | | | | | |

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ROSEBUD PROJECT

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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

DRILL HOLE RL-2020

Page 4 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 | % WASH RECOV |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | TMB | | | | | | | | LTGY | | | | 1 | TMB | < | .04 | | |
| 305 | | | | | | | | | | | | | 1.5 | Qtz Py Veins | .004 | .06 | | |
| 310 | | | | | | | | | | | | | | | .003 | .06 | | |
| 315 | | | | | | | | | | | | | | WH Arg Phenos | < | .06 | | |
| 320 | TMB | | | | | | | | LTGY Pale Grn | | | | | TMB TR Cel | < | .08 | | |
| 325 | LB | | | | | | | | | | | | | LB ↓ | </< | .10 | | |
| 330 | | | | | | | | | Pale Grn LTGY | | | | | WK Cel | < | .09 | | |
| 335 | | | | | | | | | | | | | 2 | Qtz Pyvns Mod Cel | .007 | .11 | | |
| 340 | | | | | | | | | | | | | 1 | | < | .06 | | |
| 345 | | | | | | | | | | | | | 1.5 | | .003 | .13/.12 | | |
| 350 | | | | | | | | | | | | | | | | | | |
| 355 | | | | | | | | | | | | | | OKGY Qtz | | | | |
| 360 | | | | | | | | | Pale Grn | | | | TR | | | | | |
| 365 | | | | | | | | | MGrn | | | | 1 | | | | | |
| 370 | LBT | | | | | | | | | | | | .5 | LB Strng Cel | | | | |
| 375 | | | | | | | | | | | | | | T.D | | | | |
| 80 | | | | | | | | | | | | | | | | | | |
| 85 | | | | | | | | | | | | | | | | | | |
| 90 | | | | | | | | | | | | | | | | | | |
| 95 | | | | | | | | | | | | | | | | | | |
| 00 | | | | | | | | | | | | | | | | | | |

No, still TMB (CMW)

315-350 Str Silic & Δ Qtpy (CMW)

~350 - contact w/ BUD

HOLE # RL202C LOGGED BY KLK DATE 8-91 PAGE 1 OF 7

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERAL-IZATION | GRAPHIC LOG | ALTER. | DESCRIPTION | ASSAYS: Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 375 | 90 92 | | | ± 1% diss + vn py | | wbl w-m ≈ m celad | 375-527.3 BEDDED BUD - LLT<br>CORE BEGAN @ 375'<br>375-527.3 BEDDED BUD - LITHIC LAPILLI TUFF<br>Predominantly clast supported 1-25 mm size range w/ local clasts in various beds >25 mm. Heterolithic which are pervasively altered to clay; local celadonite to locally bl white, few local flesh colored frags matrix is celadonite green; clay altered. Bedding is ± 60° throughout. There is graded bedding w/ local wispy units which have intensely clay altered matrix. Few volc bxa clast sized beds. Weak veining throughout composed of 1-5 mm wide predom. w/ few up to 10 mm. Veins are locally lined w/ SiO2; local druzy qtz; filled w/ kaolinite ± py + marcasite + local barite. Averages ~ 2-5 vns/ft<br>375-394 slight ↑ bl, very little veining < 1 vn/ft<br>417-430 prevalent veining w/ clay + marcasite fill all predom subparelle to CA.<br>438-439.5 w/ peru. split pea yellow green hue to matrix<br>439.5-451 strong pervasive celadonite alt clay matrix coarser average size of lithics 10-30 mm which are all clay alt; eaten out. | NO SAMPLE | | | | | |
| 380 | 99 | | | | | | | | | | | | |
| 390 | 102 | 15° 50° | | py + kaolin + qtz vns | | | | | | | | | |
| 400 | 96 | | | 1-2% diss py vn py + vn marcasite | | | | | | | | | |
| 410 | 112 | 60° Bedding | | | | | | | | | | | |
| 420 | 99 | | | | | | | | | | | | |
| 430 | 101 | | | | | | | | | | | | |
| 440 | 98 | | | | | | | | | | | | |

HOLE # RL202C LOGGED BY KLK DATE 8-91 PAGE 2 OF 7

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. | DESCRIPTION | ASSAYS: Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 99 | | | ±2% diss tvn py+ vn marcasite | | v wk bl M-S ~ S celad | 375-527.3 BUD-LLT (LOWER) BUD-LLT same description @ above | NO SAMPLE | | | | | |
| 450 | 100 | | | | | M bl W-M ~ M celad | 451-468 ↑ perv. matrix support w/ split pea yellowgreen coloration of matrix, matrix w/ str. clay matrix | | | | | | |
| | 97 | 50° 10° qtz py clay vns | | | | | | | | | | | |
| 460 | | | | | | | | | | | | | |
| | 107 | | | | | W bl M-S ~ M-S celad | 468-511 Intermittently wispy-dictating bedding @ 60° to C.A. Increased vuggy druzy qtz vns w/ vugs up to 30 mm wide - filled w/ marcasite, Kaolinite, clay is locally oxibized (?) to golden yellow. ~ 2-6 vns/ft. | | | | | | |
| 470 | 99 | | | | | | | | | | | | |
| 480 | 100 | 60° Bedding | | | | | | | | | | | |
| 490 | 100 | | | | | | | | | | | | |
| 500 | 99 | | | | | | | | | | | | |
| 510 | | | | | | | | | | | | | |

HOLE # RL-202C LOGGED BY KLK DATE 8-91 PAGE 3 OF 7

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. |
|---|---|---|---|---|---|---|
| 520 | 101 | 10° 50° qtz py clay vns | | ±2% diss+ vn py + vn marca site | | W-M bl S~ W celad |
| | 100 | | 25-35° CONTACT NOT A FAULT ? | | 25-35° | |
| 530 | | | | ~2% diss + vn py + vn marca site | | M bl S X W~ W celad |
| | 95 | | | | | W-M bl W-M ~ M celad |
| 540 | 101 | | | | | |
| 550 | 96 | 5° 60° qtz clay celad py marca site vns | | | | M-S bl W-M ~ W celad |
| 560 | 94 | | | | | W bl M W-M ~ W-M celad |
| 570 | 100 | | 50° mini shear | | | |
| 580 | | | | | | |

## DESCRIPTION

375-527.3 LOWER BEDDED BUD
527.3-642.2 LOWER BUD TUFF

511-527.3 Increased bleaching & more matrix supported coarser clasted LLT w/ ↓ druzy vuggy qtz vns w/ clay-marcas. fill. - max ~ 1/ft.

527.3 - 642.2 LOWER BUD TUFF

527.3-597 FINE GRAINED TUFF
w-m perv. bleaching & predom weak argillic clay alt. weak to mod intermittent celadonite alt. & locally concentrated in veins & fine fracture veinlets. Locally veins w/up to 30 mm green selvage rims. Celadonite rich fracture veining w/ bl or celadonite rich selvages gives pseudo flo banded texture @ ~ ±40°-50° to C.A. moderate pervasive veining composed of $SiO_2$ lined pyrite + celadonite + Kaolinite + marcasite. Average size 1-2 mm wide & ~ 3-10 vns/ft (looking) + intermittent fine qtz stkwk locally w/ burnt selvages

528-529.5 pervasively STR. silicific w/ intermittent micro Δ. w/ w-m fine qtz stkwk

536-551 weak local amber brown chalcedony veins w/ v.v. fine dissem pyrite.

553-563 ↑ bl to -S

569-578 slight ↑ veining w/ assoc weak shear Δ veins subparallel or 50° to C.A. w/ Kaolinite + sericite + marcasite fill w/ qtz lining

## ASSAYS

| Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|
| NO SAMPLE | | | | | |
| 527.3-533 | | | | .005 | .03 |
| 533-538 | | | | .006 | .04 |
| 538-543 | | | | .005 | .08 |
| 543-548 | | | | </< | .10/.12 |
| 548-553 | | | | < | .03 |
| 553-558 | | | | </< | .02/.03 |
| 558-563 | | | | .004 | .08 |
| 563-568 | | | | .011 | .03 |
| 568-573 | | | | .012 | .14 |
| 573-578 | | | | .006 | .08 |

HOLE # RL-202C LOGGED BY KLK DATE 8-91 PAGE 4 OF 7

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| | 92 | | | ~2% diss + VN py + VN marcasite | | same @ above | 527.3 – 642.2 LBT (continued)<br>634.7 – 678 SOUTH RIDGE FAULT |
| 590 | 100 | 0° 90° tan qtz marcasite clay VNS | | | | wbl w~ w-m celad | 587-597 decrease in overall alteration & veining perv. green w/ pyrite kaolin + celadonite rich fract. veins ~25-30/ft |
| 600 | 102 | | | ~3% diss + VN py + VN marcasite | | M-S bl M-S local SiO2 stkwk flooding w-m celad | 597 – 618.5 moderately well bl + m-s perv. argillic clay alt intermittently riddled w/ v. fine celadon rich fine fracture veinlets (±qtz) locally tectonically Δ (599-604) locally crackle brecciated. 604 – 618.5 speckled white + green due to preferrential clay alt. moderate vuggy druzy qtz lined veins w/ kaolinite + sericite + marcasite fill + local pyrite local SiO2 rims w/ azure blue coloration this veining appears @ stockwork riddling lattice thru-out locally. ~4-6 vns/ft. 612.4 w/ some Cu oxide |
| 610 | 102 | | | | | | |
| 620 | 100 | | | | | | 618.5 – 634.7 mottled to speckled FGT due to preferrential clay alt. w-m bl, m-s pervasively riddled @ a lattice uncountable w/ stockwork veing – open spaced lined w/ druzy qtz & intermittently filled w/ SiO2 + clay mix, pure kaolinite + marcasite + pyrite + local butter yellow clay no preferred orientat. 627 – 630.2 v. strong vein Δ w/ fill @ noted above. |
| 630 | 98 | 90° tan qtz marc. clay VNS | 60° Silicif FAULT Δ 60° | ±2% diss + VN py + marcasite poss chalcop | 60° | M-S bl tr~ SXXX w celad | 634.7 – 677 SOUTH RIDGE FAULT<br>634.7 – 642.2 FAULT Δ @ 60° to C.A. Δ clasts are peach or green FGT or etched out speckled FGT predom. clast supported ± 3 stages Δ, SiO2 rich micro Δ matrix ± local clay mix, s. perv. silicification, clasts are subangular to subrounded, intermittent zones of argillic alt. w-m overprint of milky qtz + blebs of marcasite or py. – locally vuggy |
| 640 | 101 | | | ±3% diss + VN py + marcasite | 60° | M bl tr~ SXXX Mod. celad | |
| 650 | | | | | | | |

SRF

ASSAYS

| Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|
| 578-583 | | | | < | .10 |
| 583-588 | | | | .006 | .06 |
| 588-593 | | | | .003/.011 | .04 |
| 593-597 | | | | .017/.012 | .02 |
| 597-602 | | | | </< | .03 |
| 602-607 | | | | #.103/< | </.012 |
| 607-612 | | | | .005/< | < |
| 612-617 | | | | </< | .07 |
| 617-622 | | | | .003/< | .07 |
| 622-627 | | | | </.003 | .02 |
| 627-630 | | | | .004 | .05/.06 |
| 630-634.7 | | | | < | .06 |
| 634.7-638 | | | | .008/.012 | .04 |
| 638-642.2 | | | | .006/.008 | .07 |
| 642.2-647 | | | | .002/< | .05 |
| 647-650 | | | | < | .03 |

634.7 – 638.5 m celadonite alt w/in matrix

HOLE # RL202C LOGGED BY KLK DATE 8-91 PAGE 5 OF 7

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERAL-IZATION | GRAPHIC LOG | ALTER. | DESCRIPTION | ASSAYS: Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 660 | 100 | predom 55-35° to 'sporadic 80-90° to VNs; NO PROM VNs | 65° XA contact; 73°; 0°; 90° fine stringers; 50° | ±3% disst fVN py + marcasite + chalco py; 2-3% disst fVN py + marcasite + chalco py | | M-S bl S-SX fr celad; M-S bl SXXX local W; M-S bl S-SX te yellow green; M bl W-M te celad | 634.7 - 678 SRF 654.1 - 803 DT<br>642.2 - 655 EPI<br>642.2 - 655 EPI - silicified brecciated (finely) lithic lapilli tuff ~ 2-3 stages of Δ strong $SiO_2$ cement locally intermittent zones of str. argillically clay alt clasts giving more of a $SiO_2$ fingered flooding weak interm vuggy druzy qtz veins locally filled w/ Kaolinite ± sericite + marcasite fill most clasts are 1-8mm wide, subangular to rounded ~ 1-3 tr VNs/ft, predom sub ll to C.A. Intermittently fingered w/ fine qtz stkwk to milky white translucent 2-3 mm qtz VN stkwk local $SiO_2$ + mixed clay VNs are pea yellow green<br>646.6 - 655 strong XXΔXXΔXX<br>654.1 - 655 blonde XΔ<br>655 - 658.7<br>white clay cemented broken rubble ? clay gouge - clasts present are rounded to subangular ? prev bx, entire zone white<br>654.1 - 803 DT<br>658.7 - 669.5<br>Bleached white to buff, well silicified fault breccia clasts are rounded to subangular w/ local white clay filling interstices of rock fabric (matrix) intermittently vuggy w/ white clay fill. ~3 stages of Δ, $SiO_2$ cemented matrix locally clasts less silicified to mod arg. clay alt weak fine <1 mm stringers of clay + py ± chalcopy not true veins 660.4 - 664.6 perv. Δ w/ green clay + buttli + $SiO_2$ matrix - vuggy w/ clay + marcasite fill<br>669.5 - 678 clay cemented broken rubble clay shear zone rock clasts appear rounded clasts are white to pervasively mustard green to greenish yellow strongly argillically alt. wk local powdery pods of py + irridescent sulfide<br>678 - 718.5 Dozer Tuff - pervasively bleached and mod. argillically altered, moderately cracked, fracturing w/ erratic dolomite + Kaolinite + pyrite fill. weakly to moderately vuggy 1-4 mm w/ Kaolinite + pyrite + poss. chalcopy. ? + marcasite fill predom subparelle to 45° to C.A. w/ few @ 80-90°. Averaging ~ 4-6 VNs/ft<br>Intermittent v. fine qtz stkwk - uncountable | 650-655 | | | | < | .02 |
| | | | | | | | | 655-658.7 | | | | < | .03 |
| | 95 | | | | | | | 658.7-664 | | | | < | .04 |
| 670 | | | | | | | | 664-669 | | | | < | .04 |
| | 95 | | | +2% disst fVN py + poss Ag sulfide | | | | 669-673 | | | | < | .02 |
| | | | | | | | | 673-678 | | | | < | .02 |
| 680 | 96 | | | 2-3% disst fVN py + ? marcasite | | | | 678-683 | | | | .002 | .04 |
| | | | | | | | | 683-688 | | | | < | .03 |
| 690 | 96 | 45° to 30° predom w/ few 80-90° VNs clay + sulfide | | | | | | 688-693 | | | | .006/.006 | .04 |
| | | | | | | | | 693-698 | | | | < | .02 |
| 700 | 100 | | | | | | | 698-703 | | | | .004 | .02 |
| | | | | | | | | 703-708 | | | | < | < |
| 710 | 97 | | | 3-4% disst fVN py + irridescent sulfide | | | | 708-713 | | | | < | .03/.02 |
| | | | | | | | | 713-718 | | | | .006 | .02 |
| 720 | | | | | | | | | | | | | |

HOLE # RL202C LOGGED BY KLK DATE 8-91 PAGE 6 OF 7

DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERAL-IZATION | GRAPHIC LOG | ALTER.

654.1 - 803 DT

718.5 - 739.5 Dozer Tuff - buff white w/ trace of green - well bleached w-m pervasive argillic clay alteration. Intermittent broken rubble assoc w/ ↑ argillic alt white clay cemented. mod to mod-strong veining ~ 1-2mm wide w/ white Kaolinite +py ± irredesent chalcopy? + local xtaline barite) on average ~ 9-25 VNS/ft poss w/ +VNS may be locally tectonically bxated - so bleached - texture is hard to tell (poss w/ pyrrhotite?)

739.5 - 767 Dozer Tuff - pervasive mod to str bleaching w/ hint of green alt which increases w/ depth. Intermittent broken rubble zones which are clay cemented. Local vein brecciation. Overall veining decreases. Intermittently tectonically brecciated locally argillic alt hides this texture. Intermittently riddled w/ fine hairline qtz stkwk - locally w/ hint green > 50 VNS/ft predom mineralized veining composed of white Kaolinite + py + poss. chalcopyrite + local lt orange poss siderite - $FeCO_3$ - locally it is v. fine boxwork texture @ 752' - appears to be carbonaceous - there is $CaCO_3$ present locally ~ 10-7 VNS/ft on average w/ local ↑ mod fractured w/ lt orange fracture coating siderite? w/ wk local assoc. white kaolin. especially between 739.5 - 751'

(OR AN OXIDE?)

767 - 803

Densely welded FGT - buff w/ hint green - lt sage green tuff w-mod bleached w/ argillic clay alt. weak to mod pervasive fracture veining w/ lt orange siderite(?) + Kaolinite ± local dk gray blebby sulfide? (≠ marcasite ≠ stibnite)? weak perv. Kaolinite + pyrite ± irredescent chalcopy? VNS are 1-2 mm wide ~ ± 4-6 VNS/ft. weak local fine hairline qtz stkwk

| Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|
| 718-723 | | | | .003 | .11 |
| 723-728 | | | | .008 | .07 |
| 728-733 | | | | .004 | .06 |
| 733-738 | | | | .003 | .03 |
| 738-743 | | | | < | < |
| 743-748 | | | | < / .007 | .06 / .08 |
| 748-753 | | | | .016 | .05 |
| 753-758 | | | | < | < |
| 758-763 | | | | .006 | .04 |
| 763-768 | | | | .005 | .04 |
| 768-773 | | | | < | < |
| 773-778 | | | | < | < |
| 778-783 | | | | < | < |
| 783-788 | | | | < | < |

HOLE # RL-202C LOGGED BY KLK DATE 8-91 PAGE 7 OF 7

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. | DESCRIPTION | ASSAYS: Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 100 | S 75° fract VNS | | 1-2% diss + VN py + poss VN marcasite | | m-s bl W W sage green | 654.1 - 803 DT - same description @ above | 788-793 | | | | </< | .02 |
| | | | | | | | 790-803 fracture veins w/ weak-mod celadonite assoc w/ Kaolinite fill | 793-798 | | | | < | </< |
| | | | | | | | | 798-803 | | | | < | .04 |
| 803 | | | | | | | T.D. @ 803' | | | | | | |

GEOTECHNICAL LOG

PAGE 1 OF 4

PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS

HOLE NO.: RL-202C DIP: Vertical CORE SIZE: HQ DATE: 7-30-91

| 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 |
| 375 | 380 | 5' | 4.2 | 4.2 | 1 | 84% | 84% | 0.2 | 70° | VN, VG/TH, FD/QTZ/R |
| 380 | 385 | 5' | 5.0 | 5.0 | 3 | 100 | 100 | 0.6 | 60-70° | VN, VG/TH, FD/QTZ, MAR/R |
| 385 | 390 | 5' | 4.65 | 4.4 | 7 | 93 | 88 | 1.5 | 65-75° | VN, ±VG/TH, FD/QTZ, ±CLY, ±MAR/R |
| 390 | 395 | 5' | 5.0 | 5.0 | 2 | 100 | 100 | 0.4 | 40° | VN, VG/TH, FD/QTZ, MAR/R |
| 395 | 400 | 5' | 5.05 | 3.6 | 9 | 101 | 72 | 1.8 | 10-60° | VN/TH, FD/CLY/PL, R |
| 400 | 405 | 5' | 4.9 | 4.4 | 2 | 98 | 88 | 0.6 | 20-50° | VN/TH, FD/CLY/PL-R |
| | | | | | 1 | | | | 40° | VN, VG/TH-OP, FD/QTZ, BAR/R |
| 405 | 410 | 5' | 4.5 | 4.5 | 0 | 90 | 90 | 0 | — | — |
| 410 | 415 | 5' | 5.0 | 4.6 | 9 | 100 | 92 | 1.8 | 15-70° | VN, ±VG/TH-OP, FD/CLY, ±QTZ, R |
| 415 | 420 | 5' | 5.1 | 5.1 | 2 | 102 | 102 | 0.4 | 50-55° | J, VN/TH, FD/CLY/R |
| 420 | 425 | 5' | 5.05 | 5.05 | 2 | 101 | 101 | 0.4 | 55-60° | VN, ±VG/TH, FD/CLY, QTZ, ±MAR |
| 425 | 430 | 5' | 5.0 | 5.0 | 0 | 100 | 100 | 0 | — | |
| 430 | 435 | 5' | 5.0 | 5.0 | 3 | 100 | 100 | 0.6 | 50-55° | VN, ±VG/TH, FD/QTZ, MAR, CLY/R |
| 435 | 440 | 5' | 4.7 | 4.45 | 5 | 94 | 89 | 1.1 | 5-70° | VN, ±VG/TH-OP, FD/QTZ, CLY, MAR/R |
| 440 | 445 | 5' | 4.9 | 4.6 | 0 | 98 | 92 | 0 | — | Note Clay gouge @ 440.2', Broken rubble @ 443' |
| 445 | 450 | 5' | 4.85 | 4.85 | 3 | 97 | 97 | 0.6 | 40° | VN, VG/TH, FD/QTZ, CLY, PY/R |
| | | | | | 1 | | | | 40° | J, VN/TH, FD/CLY/PL |
| 450 | 455 | 5' | 4.9 | 4.6 | 9 | 98 | 92 | 1.8 | 45-60° | J, VN/TH, FD/CLY, ±QTZ/PL-R |
| 455 | 460 | 5' | 5.0 | 4.45 | 1 | 100 | 89 | 0.2 | 80° | J, VN/TH, FD/CLY/R |
| | | | | | | | | | | Note: Small clay gouge @ 456.5 |
| 460 | 465 | 5' | 4.6 | 4.4 | 4 | 92 | 88 | 1.3 | 50-80° | J, VN/TH, FD/CLY/PL-R |
| | | | | | 2 | | | | 40-55° | VN, VG/TH-OP, FD/QTZ, PY, CLY/R |
| 465 | 470 | 5' | 5.0 | 4.7 | 5 | 100 | 94 | 1.0 | 55-75° | J, VN/TH, FD/CLY/R |
| 470 | 475 | 5' | 5.35 | 5.35 | 1 | 107 | 107 | 0.7 | 40° | J, VN/TH, FD/CLY/R |
| | | | | | 3 | | | | 45-55° | VN, VG/TH, FD/QTZ, CLY, BAR/R |
| 475 | 480 | 5' | 4.8 | 4.8 | 1 | 96 | 96 | 96 | 60° | J, VN/TH, FD/CLY/R |
| | | | | | 1 | | | | 55° | VN, VG/TH-OP, FD/QTZ/R |
| 480 | 485 | 5' | 5.0 | 4.25 | 6 | 100 | 85 | 85 | 15-70° | VN, VG/TH-OP, FD/QTZ, CLY/R |
| | | | | | 2 | | | | 60-70° | J, VN/TH, FD/CLY/PL, W |
| 485 | 490 | 5' | 5.0 | 4.7 | 4 | 100 | 94 | 94 | 0-60° | VN, VG/TH-OP, FD/QTZ, CLY/R |
| | | | | | 2 | | | | 55-75° | J, VN/TH, FD/CLY/PL, W |
| | | | | | | | | | | |

GEOTECHNICAL LOG

PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS



HOLE NO.: RL-202 C DIP: Vertical CORE SIZE: HQ DATE: 7-30-91

| 1 FROM | 2 TO | 3 CORE RUN | 4 RECOVERED CORE | 5 TOTAL LENGTH OF CORE>4" | 6 NO. OF FRACTURES | 7 CORE RECOVERY (%) (4/3 X 100) | 8 R.Q.D. (%) (5/3 X 100) | 9 FRACTURES PER FT. (6/4) | 10 RANGE OR AVERAGE ANGLE OF FRACTURE W.R.T. CORE AXIS | 11 REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 490 | 495 | 5' | 5.0 | 5.0 | 5 | 100% | 100% | 1.4 | 10-40° | VN, VG/TH-OP, FD/QTZ, CLY, ±BAR/R |
| | | | | | 2 | | | | 60-75° | J, VN/TH, FD/CLY/PL, W |
| 495 | 500 | 5' | 4.9 | 4.6 | 3 | 98 | 92 | 1.0 | 35-70° | J, VN/TH, FD/CLY/PL-R // Note: Clay gouge @ at 499.5' |
| | | | | | 2 | | | | 15-25° | VN, VG/TH-OP, FD/QTZ, MAR/R |
| 500 | 505 | 5' | 5.0 | 4.35 | 9 | 100 | 87 | 1.8 | 55-80° | J, VN/TH, FD/CLY/PL, W |
| 505 | 510 | 5' | 4.85 | 4.85 | 2 | 97 | 97 | 0.4 | 60° | J, VN/TH, FD/CLY/PL, W |
| 510 | 515 | 5' | 4.95 | 4.65 | 7 | 99 | 93 | 1.4 | 65-75° | J, VN/TH, FD/CLY/PL, W |
| 515 | 520 | 5' | 4.95 | 4.8 | 5 | 99 | 96 | 1.0 | 65-70° | J, VN/TH, FD/CLY/PL, W |
| 520 | 527.3 | 7.3' | 7.3 | 7.0 | 2 | 100 | 96 | 1.0 | 30° | VN, VG/TH-OP, FD/QTZ, CLY/R // Note: 527.3', |
| | | | | | 5 | | | | 50-75° | J, VN/TH, FD/CLY/PL-R Contact W/LBT |
| 527.3 | 535 | 7.7' | 7.6 | 6.7 | 2 | 99 | 87 | 1.6 | 25-90° | VN, VG/TH, FD/QTZ, CLY, PY/R |
| | | | | | 10 | | | | 15-70° | VN/TH, FD/CLY/R |
| 535 | 540 | 5' | 4.8 | 4.0 | 8 | 96 | 80 | 1.7 | 20-50° | VN, ±VG/TH, FD/QTZ, CLY/R |
| 540 | 545 | 5' | 4.65 | 4.15 | 3 | 93 | 83 | 0.6 | 50-65° | VN, ±VG/TH, FD/QTZ, CLY, PY/R |
| 545 | 550 | 5' | 4.95 | 4.7 | 8 | 99 | 94 | 1.6 | 25-80° | VN, ±VG/TH, FD/CLY, QTZ, PY/PL-R |
| 550 | 555 | 5' | 5.15 | 4.3 | 11 | 103 | 86 | 2.1 | 35-65° | VN/TH, FD/CLY, ±PY, ±MAR |
| 555 | 560 | 5' | 5.1 | 4.8 | 9 | 102 | 96 | 1.8 | 10-65° | VN/TH, FD/CLY, PY/PL |
| 560 | 565 | 5' | 4.1 | 2.85 | 15 | 82 | 57 | 3.7 | 25-75° | VN, ±VG/TH-OP, FD/CLY, ±QTZ, ±PY, ±MAR/PL, R |
| 565 | 570 | 5' | 4.95 | 4.6 | 12 | 99 | 92 | 2.4 | 25-45° | VN, ±VG/TH-OP, FD/QTZ, CLY, MAR/R |
| 570 | 575 | 5' | 5.0 | 4.8 | 4 | 100 | 96 | 2.2 | 40-45° | J/TH, FD/CLY/PL, R |
| | | | | | 7 | | | | 0-35° | VN, VG/TH-OP, FD/QTZ, CLY/R |
| 575 | 580 | 5' | 4.9 | 4.6 | 7 | 98 | 92 | 1.4 | 30-45° | VN/TH, FD/CLY/PL |
| 580 | 585 | 5' | 5.05 | 5.05 | 6 | 101 | 101 | 1.2 | 25-60° | VN/TH, FD/CLY, ±QTZ/PL-R |
| 585 | 590 | 5' | 4.9 | 4.25 | 13 | 98 | 85 | 2.7 | 25-50° | VN/TH, FD/CLY ±QTZ, ±PY/PL |
| 590 | 595 | 5' | 4.7 | 2.4 | 19 | 94 | 48 | 4.0 | 25-50° | VN/TH, FD/CLY/PL |
| 595 | 600 | 5' | 4.45 | 3.4 | 9 | 89 | 68 | 2.0 | 55-70° | VN/TH, FD/CLY, QTZ, PY/PL, R |
| 600 | 605 | 5' | 4.8 | 4.2 | 6 | 96 | 84 | 1.3 | 30-45° | VN, VG/TH, FD/QTZ, CLY, PY/R |
| 605 | 610 | 5' | 5.0 | 4.8 | 4 | 100 | 96 | 1.0 | 30-70° | VN/TH, FD/CLY/PL-R |
| | | | | | 1 | | | | 0° | VN, VG/OP, FD/QTZ, CLY, MAR/R |
| 610 | 615 | 5' | 5.1 | 4.45 | 8 | 102 | 89 | 1.6 | 20-70° | VN, ±VG/TH-OP, FD/CLY, QTZ/R |
| 615 | 620 | 5' | 5.1 | 5.0 | 7 | 102 | 100 | 1.4 | 25-45° | VN, ±VG/TH-OP, FD/CLY, QTZ/R |
| | | | | | | | | | | |

GEOTECHNICAL LOG

PAGE 3 OF 4

PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS

HOLE NO.: RL-202C DIP: vertical CORE SIZE: HQ DATE: 7-30-91

| 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 |
| 620 | 625 | 5' | 4.85 | 4.35 | 9 | 97 | 97 | 1.9 | 15-65° | VN, VG/TH-OP, FD/QTZ, CLY/R |
| 625 | 630 | 5' | 5.15 | 4.7 | 10 | 103 | 94 | 1.9 | 35-65° | VN, ±VG/TH-OP, FD/QTZ, CLY/R |
| 630 | 635 | 5' | 4.8 | 4.8 | 9 | 96 | 96 | 1.9 | 35-55° | VN/TH, FD/CLY, ±QTZ/PL |
| 635 | 640 | 5' | 5.0 | 5.0 | 1 | 100 | 100 | 0.2 | 30° | VN, VG/TH-OP, FD/QTZ, CLY/R |
| 640 | 645 | 5' | 4.95 | 4.7 | 6 | 99 | 94 | 1.2 | 30-75° | VN, ±VG/TH, FD/CLY, ±QTZ, /R |
| 645 | 650 | 5' | 5.05 | 4.9 | 5 | 101 | 98 | 1.0 | 0-55° | VN, ±VG/TH, FD/QTZ, CLY/R |
| 650 | 655 | 5' | 5.0 | 5.0 | 3 | 100 | 100 | 0.6 | | |
| 655 | 660 | 5' | 4.75 | 3.1 | | 95 | 62 | 0.8 | | Note: 665'-668' Clay-gouge: shear zone. |
| | | | | | 4 | | | | 60-70° | J, VN/TH, FD/CLY/PL-R |
| 660 | 665 | 5' | 4.75 | 3.9 | 6 | 95 | 78 | 2.7 | 25-70° | VN/TH, FD/CLY/PL-R |
| | | | | | 7 | | | | 30-60° | VN, VG/TH, FD/QTZ, CLY/R |
| 665 | 670 | 5' | 4.7 | 3.5 | 12 | 94 | 70 | 2.6 | 0-80° | VN, ±VG/TH-OP, FD/CLY/R |
| 670 | 675 | 5' | 4.5 | 2.1 | See Note | 90 | 42 | SEE NOTE | | Note: 670'-677' strongly Argillized and crumbles easily when handled. |
| 675 | 680 | 5' | 4.8 | 2.65 | 4 | 96 | 53 | 0.8 | 30-50° | VN/TH, FD/CLY/PL, W |
| 680 | 685 | 5' | 4.9 | 2.65 | 13 | 98 | 53 | 2.7 | 35-80° | VN/TH, FD/CLY/R |
| 685 | 690 | 5' | 4.3 | 1.9 | 19 | 86 | 38 | 4.4 | 0-90° | VN/TH, FD/CLY, PY, MAR/PL |
| 690 | 695 | 5' | 5.0 | 4.5 | 9 | 100 | 90 | 1.8 | 30°-90° | VN/TH, FD/CLY, MAR, PL |
| 695 | 700 | 5' | 4.35 | 3.2 | 10 | 87 | 64 | 2.3 | 30-65° | VN/TH, FD/CLY/PL |
| | | | | | | | | | | Note: Broken, clayey rubble 697'-698'; small clay gouge @ 698.5'. |
| 700 | 705 | 5' | 5.05 | 3.3 | 18 | 101 | 66 | 3.6 | 20-80° | VN/TH, FD/CLY, ±MAR/PL-R |
| 705 | 710 | 5' | 4.5 | 2.75 | 15 | 90 | 55 | 3.3 | 40-75° | VN/TH, FD/CLY, MAR/PL |
| 710 | 715 | 5' | 5.1 | 4.3 | 8 | 102 | 86 | 1.6 | 30-85° | VN/TH, FD/CLY, ±QTZ/PL-R |
| 715 | 720 | 5' | 4.6 | 4.1 | 8 | 92 | 82 | 1.7 | 30-80° | VN/TH, FD/CLY/PL |
| 720 | 725 | 5' | 5.1 | 3.65 | 17 | 102 | 73 | 3.3 | 0-85° | VN/TH, FD/CLY/PL-R |
| | | | | | | | | | | Note: This interval contains numerous zones of broken rubble. |
| 725 | 730 | 5' | 4.25 | 2.75 | 12 | 85 | 55 | 2.8 | 0-65° | VN/TH, FD/CLY/PL-R |
| | | | | | | | | | | Note: Clay gouge and broken rubble 626.5' & 627.5' |

GEOTECHNICAL LOG

PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS PAGE 4 OF 4

HOLE NO.: RL-202C DIP: Vertical CORE SIZE: HQ DATE: 7-31-91

| 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 |
| 730 | 735 | 5' | 4.9 | 3.75 | 10 | 98% | 75% | 2.0 | 0-60° | VN/TH, FD/CLY, ± PY, ± MAR / PL-R |
| | | | | | | | | | | Note: 733'-733.5' Broken rubble |
| 735 | 740 | 5' | 4.45 | 3.65 | 8 | 89 | 73 | 1.8 | 20-80° | VN/TH, FD/CLY/PL-R /// Note: Broken rubble @ 736' |
| 740 | 745 | 5' | 4.9 | 1.9 | 15 | 98 | 38 | 3.1 | 45-75° | VN/TH, FD/CLY/PL /// Note: broken rubble @ 745' |
| 745 | 750 | 5' | 3.65 | 1.7 | 10 | 73 | 34 | 2.7 | 15-80° | VN/TH, FD/CLY/PL-R |
| 750 | 755 | 5' | 4.7 | 3.55 | | 94 | 71 | 2.3 | | Note: 750'-751' Clay gouge and Broken Rubble |
| | | | | | 11 | | | | 0-80° | VN, ± VG/TH, FD/CLY, ± QTZ/PL-R |
| 755 | 760 | 5' | 4.85 | 4.5 | 11 | 97 | 97 | 2.3 | 0-70° | VN/TH, FD/CLY, ± PY, MAR/PL-R |
| 760 | 765 | 5' | 5.0 | 4.15 | 17 | 100 | 83 | 3.4 | 0-75° | VN/TH, FD/CLY, ± MAR/R |
| 765 | 770 | 5' | 4.9 | 3.7 | 11 | 98 | 74 | 2.2 | 45-80° | VN/TH, FD/CLY, ± PY, ± MAR/R |
| 770 | 775 | 5' | 4.5 | 2.85 | 18 | 90 | 57 | 4.0 | 25-85° | VN/TH, FD/CLY/PL-R |
| 775 | 780 | 5' | 4.3 | 3.3 | | 86 | 66 | 3.0 | | Note: 777'-778' Broken rubble. |
| | | | | | 13 | | | | 0-80° | VN/TH, FD/CLY, ± PY, ± MAR/PL-R |
| 780 | 785 | 5' | 4.9 | 2.2 | 17 | 98 | 44 | 3.5 | 40-80° | VN/TH, FD/CLY/PL-R /// Note: Zones of |
| | | | | | | | | | | broken rubble at 781.5'-782' and 784.5'-786' |
| 785 | 790 | 5' | 4.3 | 1.8 | 13 | 86 | 36 | 3.0 | 25-75° | VN/TH, FD/CLY, PY, MAR/PL-R |
| 790 | 797 | 7' | 6.8 | 4.75 | 18 | | | | 10-70° | VN/TH, FD/CLY, ± PY/PL-R |
| | | | | | | | | | | Note: Clay gouge at 796' |
| 797 | 803 | 6' | 5.95 | 4.3 | 13 | | | | 0-85° | VN/TH, FD/CLY, ± MAR/PL-R |
| | T.D. 803 | | | | | | | | | Note: 802'-803' Broken rubble |

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RL202C

# Geochemical Lab Report

OCT 9 1991

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-12108.4 ( COMPLETE )

REFERENCE INFO: RL-202C 20-25 TO 150-155

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

SUBMITTED BY: KENNER
DATE PRINTED: 4-OCT-91

| ORDER | ELEMENT | | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|---|---|---|---|---|---|---|
| 1 | Au DUP | Gold Duplicate | 2 | 0.002 OPT | | Fire Assay |
| 2 | Au | Gold | 11 | 0.002 OPT | | Fire Assay |
| 3 | AG DUP | AG DUPLICATE | 2 | 0.02 OPT | | Fire Assay |
| 4 | Ag | Silver | 11 | 0.02 OPT | | Fire Assay |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|---|---|---|---|---|---|
| Z OTHER DRILL TYPES | 11 | 2 -150 | 11 | CRUSH,PULVERIZE -150 | 11 |
| | | | | DRYING/SAMPLE | 11 |

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Kristy L Smith

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

# Geochemical Lab Report

DATE PRINTED: 4-OCT-91

REPORT: R91-12108.4 ( COMPLETE )

PROJECT: ROSEBUD PAGE 2

| STANDARD NAME | ELEMENT UNITS | Au DUP OPT | Au OPT | AG DUP OPT | Ag OPT |
|---|---|---|---|---|---|
| PD SYN STD AU/AG | | - | 0.036 | - | 0.40 |
| Number of Analyses | | - | 1 | - | 1 |
| Mean Value | | - | 0.0360 | - | 0.400 |
| Standard Deviation | | - | - | - | - |
| Accepted Value | | - | 0.040 | - | 0.40 |

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RL202C

# Geochemical Lab Report

SEP 18 1991

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11713.4 ( COMPLETE )

REFERENCE INFO: RL 202C 155-375

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

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

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|---|---|---|---|---|---|
| 1 | Au Gold | 46 | 0.002 OPT | | Fire Assay |
| 2 | Au DUP Gold Duplicate | 5 | 0.002 OPT | | Fire Assay |
| 3 | AG DUP AG DUPLICATE | 5 | 0.02 OPT | | Fire Assay |
| 4 | Ag Silver | 46 | 0.02 OPT | MULT ACID TOT DIG | Atomic Absorption |

| SAMPLE TYPES | NUMBER | SIZE FRACTIONS | NUMBER | SAMPLE PREPARATIONS | NUMBER |
|---|---|---|---|---|---|
| Z OTHER DRILL TYPES | 44 | 2 -150 | 44 | CRUSH,PULVERIZE -150 | 46 |
| P PREPARED PULP | 2 | 4 AS REC'D | 2 | AS RECEIVED, NO SP | 2 |

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~~MR. TIM KUHI~~
MS. KRISTIN KENNER

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Rickey L Santos

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# Geochemical Lab Report

DATE PRINTED: 16-SEP-91

REPORT: R91-11713.4 ( COMPLETE )

PROJECT: ROSEBUD 

| STANDARD NAME | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | STANDARD NAME | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ANALYTICAL BLANK | | <0.002 | - | - | - | | | | | | |
| ANALYTICAL BLANK | | <0.002 | - | - | - | | | | | | |
| Number of Analyses | | 2 | - | - | - | | | | | | |
| Mean Value | | 0.0010 | - | - | - | | | | | | |
| Standard Deviation | | 0.000000 | - | - | - | | | | | | |
| Accepted Value | | 0.002 | - | - | - | | | | | | |
| AU ASSAY STD | | 0.013 | - | - | - | | | | | | |
| Number of Analyses | | 1 | - | - | - | | | | | | |
| Mean Value | | 0.0130 | - | - | - | | | | | | |
| Standard Deviation | | - | - | - | - | | | | | | |
| Accepted Value | | 0.015 | - | - | - | | | | | | |
| [illegible]0 TRACE STD1(1989) | | - | - | - | 1.07 | | | | | | |
| _0 TRACE STD1(1989) | | - | - | - | 1.00 | | | | | | |
| Number of Analyses | | - | - | - | 2 | | | | | | |
| Mean Value | | - | - | - | 1.037 | | | | | | |
| Standard Deviation | | - | - | - | 0.0455 | | | | | | |
| Accepted Value | | - | - | - | 1.05 | | | | | | |
| AG ASSAY | | - | - | - | 3.17 | | | | | | |
| AG ASSAY | | - | - | - | 3.17 | | | | | | |
| Number of Analyses | | - | - | - | 2 | | | | | | |
| Mean Value | | - | - | - | 3.171 | | | | | | |
| Standard Deviation | | - | - | - | 0.0020 | | | | | | |
| Accepted Value | | - | - | - | 3.03 | | | | | | |

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RL202C

# Geochemical Lab Report

AUG 26 1991

REPORT: R91-11553.4 ( COMPLETE )

REFERENCE INFO: RL 202C 527.3 - 803

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

SUBMITTED BY: KENNER
DATE PRINTED: 22-AUG-91

| ORDER | ELEMENT | NUMBER OF ANALYSES | LOWER DETECTION LIMIT | EXTRACTION | METHOD |
|---|---|---|---|---|---|
| 1 | Au Gold | 60 | 0.002 OPT | | Fire Assay |
| 2 | Au DUP Gold Duplicate | 18 | 0.002 OPT | | Fire Assay |
| 3 | AG DUP AG DUPLICATE | 6 | 0.02 OPT | | Fire Assay |
| 4 | Ag Silver | 60 | 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 | 57 | 2 -150 | 57 | CRUSH,PULVERIZE -150 | 57 |
| P PREPARED PULP | 3 | 4 AS REC'D | 3 | AS RECEIVED, NO SP | 3 |
| | | | | DRYING/SAMPLE | 57 |

NOTES: # indicates ERRATIC RESULTS

REMARKS: # ERRATIC RESULT OBSERVED C.HOWARD

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Richey L Arata

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

# Geochemical Lab Report

DATE PRINTED: 22-AUG-91

REPORT: R91-11553.4 ( COMPLETE )

PROJECT: ROSEBUD 

| STANDARD NAME | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | AU Dup OPT |
|---|---|---|---|---|---|---|
| ANALYTICAL BLANK | | <0.002 | - | - | - | - |
| ANALYTICAL BLANK | | <0.002 | - | - | - | - |
| Number of Analyses | | 2 | - | - | - | - |
| Mean Value | | 0.0010 | - | - | - | - |
| Standard Deviation | | 0.000000 | - | - | - | - |
| Accepted Value | | 0.002 | - | - | - | - |
| Number of Analyses | | - | - | - | - | - |
| Mean Value | | - | - | - | - | - |
| Standard Deviation | | - | - | - | - | - |
| Accepted Value | | 0.015 | - | - | - | - |
| GEO TRACE STD1(1989) | | - | - | - | 1.21 | - |
| GEO TRACE STD1(1989) | | - | - | - | 1.21 | - |
| Number of Analyses | | - | - | - | 2 | - |
| Mean Value | | - | - | - | 1.210 | - |
| Standard Deviation | | - | - | - | 0.0000 | - |
| Accepted Value | | - | - | - | 1.05 | - |
| AG ASSAY | | - | - | - | 3.21 | - |
| AG ASSAY | | - | - | - | 3.21 | - |
| Number of Analyses | | - | - | - | 2 | - |
| Mean Value | | - | - | - | 3.212 | - |
| Standard Deviation | | - | - | - | 0.0028 | - |
| Accepted Value | | - | - | - | 3.03 | - |

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# Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 4-OCT-91

REPORT: R91-12108.4 ( COMPLETE )

PROJECT: ROSEBUD PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Au DUP OPT | Au OPT | AG DUP OPT | Ag OPT |
|---|---|---|---|---|---|
| Z2 RL202C 20 25 | | | <0.002 | | 0.03 |
| Z2 RL202C 35 40 | | <0.002 | <0.002 | <0.02 | 0.03 |
| Z2 RL202C 50 55 | | | <0.002 | | 0.04 |
| Z2 RL202C 65 70 | | | <0.002 | | 0.04 |
| Z2 RL202C 80 85 | | | <0.002 | | 0.11 |
| Z2 RL202C 95 100 | | | 0.004 | | 0.06 |
| Z2 RL202C 100 105 | | | 0.003 | | 0.08 |
| Z2 RL202C 115 120 | | | <0.002 | | 0.05 |
| Z2 RL202C 130 135 | | <0.002 | 0.003 | 0.06 | 0.05 |
| Z2 RL202C 140 145 | | | <0.002 | | 0.06 |
| Z2 RL202C 150 155 | | | <0.002 | | 0.03 |

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# Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 16 SEP-91

REPORT: R91-11713.4 ( COMPLETE )

PROJECT: ROSEBUD



| SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Z2 RL202 155 160 | | 0.005 | | | 0.04 | Z2 RL202C 350 355 | | 0.002 | | | 0.10 |
| Z2 RL202 160 165 | | 0.024 | | | 0.04 | P4 BA 138 | | 0.039 | | | 0.07 |
| Z2 RL202 165 170 | | 0.002 | | | 0.04 | Z2 RL202C 355 360 | | <0.002 | | | 0.08 |
| Z2 RL202 170 175 | | 0.002 | <0.002 | 0.03 | 0.03 | Z2 RL202C 360 365 | | 0.003 | | 0.09 | 0.10 |
| Z2 RL202 175 180 | | <0.002 | | | 0.03 | Z2 RL202C 365 370 | | <0.002 | | | 0.07 |
| Z2 RL202 180 185 | | <0.002 | | | 0.03 | Z2 RL202C 370 375 | | <0.002 | | | 0.07 |
| Z2 RL202 185 190 | | <0.002 | | | 0.05 | | | | | | |
| Z2 RL202 190 195 | | 0.002 | | | 0.05 | | | | | | |
| Z2 RL202 195 200 | | <0.002 | | | 0.04 | | | | | | |
| Z2 RL202 200 205 | | <0.002 | | | 0.04 | | | | | | |
| Z2 RL202 205 210 | | 0.002 | | | 0.06 | | | | | | |
| Z2 RL202 210 215 | | <0.002 | | | 0.04 | | | | | | |
| Z2 RL202 215 220 | | <0.002 | | | 0.04 | | | | | | |
| Z2 RL202 220 225 | | 0.002 | <0.002 | | 0.03 | | | | | | |
| Z2 RL202 225 230 | | 0.002 | | | 0.04 | | | | | | |
| RL202 230 235 | | 0.002 | | | 0.07 | | | | | | |
| RL202 235 240 | | 0.014 | | | 0.07 | | | | | | |
| Z2 RL202 240 245 | | 0.003 | | | 0.05 | | | | | | |
| Z2 RL202 245 250 | | 0.003 | | | 0.04 | | | | | | |
| Z2 RL202 250 255 | | 0.036 | | | 0.13 | | | | | | |
| P4 BA 137 | | 0.032 | | | 0.19 | | | | | | |
| Z2 RL202 255 260 | | 0.002 | | 0.06 | 0.07 | | | | | | |
| Z2 RL202 260 265 | | 0.003 | 0.003 | 0.09 | 0.08 | | | | | | |
| Z2 RL202 265 270 | | <0.002 | | | 0.07 | | | | | | |
| Z2 RL202 270 275 | | 0.010 | | | 0.10 | | | | | | |
| Z2 RL202 275 280 | | 0.003 | 0.006 | | 0.06 | | | | | | |
| Z2 RL202 280 285 | | 0.005 | | | 0.07 | | | | | | |
| Z2 RL202 285 290 | | <0.002 | | | 0.07 | | | | | | |
| Z2 RL202 290 295 | | <0.002 | | | 0.06 | | | | | | |
| Z2 RL202 295 300 | | <0.002 | | | 0.06 | | | | | | |
| Z2 RL202 300 305 | | <0.002 | | | 0.04 | | | | | | |
| Z2 RL202 305 310 | | 0.004 | | | 0.06 | | | | | | |
| Z2 RL202 310 315 | | 0.003 | | | 0.06 | | | | | | |
| Z2 RL202 315 320 | | <0.002 | | | 0.06 | | | | | | |
| Z2 RL202 320 325 | | <0.002 | | | 0.08 | | | | | | |
| Z2 RL202 325 330 | | <0.002 | <0.002 | | 0.10 | | | | | | |
| RL202 330 335 | | <0.002 | | | 0.09 | | | | | | |
| RL202 335 340 | | 0.007 | | | 0.11 | | | | | | |
| Z2 RL202 340 345 | | <0.002 | | | 0.06 | | | | | | |
| Z2 RL202 345 350 | | 0.003 | | 0.13 | 0.12 | | | | | | |

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

# Geochemical Lab Report

REPORT: R91-11553.4 ( COMPLETE )

DATE PRINTED: 22-AUG-91

PROJECT: ROSEBUD



| SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | AU Dup OPT |
|---|---|---|---|---|---|---|
| D2 RL202C 527.3 533 | | 0.005 | | | 0.03 | |
| D2 RL202C 533 538 | | 0.006 | | | 0.04 | |
| D2 RL202C 538 543 | | 0.005 | | | 0.08 | |
| D2 RL202C 543 548 | | <0.002 | <0.002 | 0.12 | 0.10 | |
| D2 RL202C 548 553 | | <0.002 | | | 0.03 | |
| D2 RL202C 553 558 | | <0.002 | <0.002 | 0.02 | 0.03 | |
| D2 RL202C 558 563 | | 0.004 | | | 0.08 | |
| D2 RL202C 563 568 | | 0.011 | | | 0.03 | |
| D2 RL202C 568 573 | | 0.012 | | | 0.14 | |
| D2 RL202C 573 578 | | 0.006 | | | 0.08 | |
| D2 RL202C 578 583 | | <0.002 | | | 0.10 | |
| D2 RL202C 583 588 | | 0.006 | | | 0.06 | |
| D2 RL202C 588 593 | | 0.003 | 0.011 | | 0.04 | |
| D2 RL202C 593 597 | | 0.017 | 0.012 | | 0.02 | |
| D2 RL202C 597 602 | | <0.002 | <0.002 | | 0.03 | |
| D2 RL202C 602 607 | | 0.1034 | <0.002 | | <0.02 | 0.012 |
| D2 RL202C 607 612 | | 0.005 | <0.002 | | <0.02 | |
| D2 RL202C 612 617 | | <0.002 | <0.002 | | 0.07 | |
| D2 RL202C 617 622 | | 0.003 | <0.002 | | 0.07 | |
| D2 RL202C 622 627 | | <0.002 | 0.003 | | 0.02 | |
| P4 BA 78 | | 0.024 | 0.020 | | 0.16 | |
| D2 RL202C 627 630 | | 0.004 | | 0.05 | 0.06 | |
| D2 RL202C 630 634.7 | | <0.002 | | | 0.06 | |
| D2 RL202C 634.7 638 | | 0.008 | 0.012 | | 0.04 | |
| D2 RL202C 638 642.2 | | 0.006 | 0.008 | | 0.07 | |
| D2 RL202C 642.2 647 | | 0.002 | <0.002 | | 0.05 | |
| D2 RL202C 647 650 | | <0.002 | | | 0.03 | |
| D2 RL202C 650 655 | | <0.002 | | | 0.02 | |
| D2 RL202C 655 658.7 | | <0.002 | | | 0.03 | |
| D2 RL202C 658.7 664 | | <0.002 | | | 0.04 | |
| D2 RL202C 664 669 | | <0.002 | | | 0.04 | |
| D2 RL202C 669 673 | | <0.002 | | | 0.02 | |
| D2 RL202C 673 678 | | <0.002 | | | 0.02 | |
| D2 RL202C 678 683 | | 0.002 | | | 0.04 | |
| D2 RL202C 683 688 | | <0.002 | | | 0.03 | |
| D2 RL202C 688 693 | | 0.006 | 0.006 | | 0.04 | |
| D2 RL202C 693 698 | | <0.002 | | | 0.02 | |
| D2 RL202C 698 703 | | 0.004 | | | 0.02 | |
| D2 RL202C 703 708 | | <0.002 | | | <0.02 | |
| D2 RL202C 708 713 | | <0.002 | | 0.03 | 0.02 | |

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DATE PRINTED: 22-AUG-91

REPORT: R91-11553.4 ( COMPLETE )

PROJECT: ROSEBUD 

| SAMPLE NUMBER | FITMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | AU Dup OPT |
|---|---|---|---|---|---|---|
| D2 RL202C 713 718 | | 0.006 | | | 0.02 | |
| P4 BA 79 | | 0.028 | | | 0.20 | |
| D2 RL202C 718 723 | | 0.003 | | | 0.11 | |
| D2 RL202C 723 728 | | 0.008 | | | 0.07 | |
| D2 RL202C 728 733 | | 0.004 | | | 0.06 | |
| D2 RL202C 733 738 | | 0.003 | | | 0.03 | |
| D2 RL202C 738 743 | | <0.002 | <0.002 | | <0.02 | |
| D2 RL202C 743 748 | | <0.002 | 0.007 | 0.08 | 0.06 | |
| D2 RL202C 748 753 | | 0.016 | | | 0.05 | |
| D2 RL202C 753 758 | | <0.002 | | | <0.02 | |
| D2 RL202C 758 763 | | 0.006 | | | 0.04 | |
| D2 RL202C 763 768 | | 0.005 | | | 0.04 | |
| D2 RL202C 768 773 | | <0.002 | | | <0.02 | |
| D2 RL202C 773 778 | | <0.002 | | | <0.02 | |
| D2 RL202C 778 783 | | <0.002 | | | <0.02 | |
| D2 RL202C 783 788 | | <0.002 | | | <0.02 | |
| D2 RL202C 788 793 | | <0.002 | <0.002 | | 0.02 | |
| D2 RL202C 793 798 | | <0.002 | | <0.02 | <0.02 | |
| D2 RL202C 798 803 | | <0.002 | | | 0.04 | |
| P4 BA 80 | | 0.057 | | | 0.08 | |

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# Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 16-SEP-91

REPORT: R91-11713.4 ( COMPLETE )

PROJECT: ROSEBUD PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RL202 170 175 | | 0.002 | <0.002 | 0.03 | 0.03 | | | | | | |
| Duplicate | | <0.002 | | | 0.03 | | | | | | |
| RL202 220 225 | | 0.002 | <0.002 | | 0.03 | | | | | | |
| Duplicate | | <0.002 | | | | | | | | | |
| RL202 255 260 | | 0.002 | | 0.06 | 0.07 | | | | | | |
| Duplicate | | | | | 0.06 | | | | | | |
| RL202 260 265 | | 0.003 | 0.003 | 0.09 | 0.08 | | | | | | |
| Prep Duplicate | | 0.003 | | | 0.09 | | | | | | |
| RL202 275 280 | | 0.003 | 0.006 | | 0.06 | | | | | | |
| Duplicate | | 0.006 | | | | | | | | | |
| RL202 325 330 | | <0.002 | <0.002 | | 0.10 | | | | | | |
| Duplicate | | <0.002 | | | | | | | | | |
| 202 345 350 | | 0.003 | | 0.13 | 0.12 | | | | | | |
| plicate | | | | | 0.13 | | | | | | |
| RL202C 360 365 | | 0.003 | | 0.09 | 0.10 | | | | | | |
| Prep Duplicate | | <0.002 | <0.002 | | 0.09 | | | | | | |
| | | <0.002 | <0.002 | | 0.09 | | | | | | |
| Duplicate | | <0.002 | | | | | | | | | |

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# Geochemical Lab Report

DATE PRINTED: 22-AUG-91

REPORT: R91-11553.4 ( COMPLETE )

PROJECT: ROSEBUD 

| SAMPLE NUMBER | FIRMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | AU Dup OPT |
|---|---|---|---|---|---|---|
| RL202C 543 548 | | <0.002 | <0.002 | 0.12 | 0.10 | |
| Duplicate | | | | | 0.12 | |
| RL202C 553 558 | | <0.002 | <0.002 | 0.02 | 0.03 | |
| Prep Duplicate | | <0.002 | | | 0.02 | |
| RL202C 627 631 | | 0.004 | | 0.05 | 0.06 | |
| Duplicate | | | | | 0.05 | |
| RL202C 642.2 647 | | 0.002 | <0.002 | | 0.05 | |
| Duplicate | | <0.002 | | | | |
| RL202C 688 693 | | 0.006 | 0.006 | | 0.04 | |
| Duplicate | | 0.006 | | | | |
| RL202C 708 713 | | <0.002 | | 0.03 | 0.02 | |
| Duplicate | | | | | 0.03 | |
| RL202C 738 743 | | <0.002 | <0.002 | | <0.02 | |
| Duplicate | | <0.002 | | | | |
| RL202C 743 748 | | <0.002 | 0.007 | 0.08 | 0.06 | |
| Prep Duplicate | | 0.007 | | | 0.08 | |
| RL202C 788 793 | | <0.002 | <0.002 | | 0.02 | |
| Duplicate | | <0.002 | | | | |
| RL202C 793 798 | | <0.002 | | <0.02 | <0.02 | |
| Duplicate | | | | | <0.02 | |

**Bondar-Clegg, Inc.**
625 Spice Island Dr.
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Sparks, Nevada 89431
702 (359-9330)

BONDAR-CLEGG

# Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

DATE PRINTED: 4-OCT-91

REPORT: R91-12108.4 ( COMPLETE )

PROJECT: ROSEBUD PAGE 3

| SAMPLE NUMBER | ELEMENT UNITS | Au DUP OPT | Au OPT | AG DUP OPT | Ag OPT |
|---|---|---|---|---|---|
| RL202C 35 40 | | <0.002 | <0.002 | <0.02 | 0.03 |
| Prep Duplicate | | | <0.002 | | <0.02 |
| RL202C 130 135 | | <0.002 | 0.003 | 0.06 | 0.05 |
| Duplicate | | | <0.002 | | 0.06 |

# 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

OCT 9 1991

A9122707

Comments:

## CERTIFICATE A9122707

LAC MINERALS U.S.A. INC

Project:
P.O. # :

Samples submitted to our lab in Sparks, NV.
This report was printed on 4-OCT-91.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION |
|---|---|---|
| 205 | 1 | Geochem ring to approx 150 mesh |
| 294 | 1 | Crush and split (0-10 pounds) |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION | METHOD | DETECTION LIMIT | UPPER LIMIT |
|---|---|---|---|---|---|
| 998 | 1 | Au oz/T: 1 assay ton | FA-AAS | 0.001 | 20.00 |

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89431

Project :
Comments:

Page Number :1
Total Pages :1
Certificate Date: 04-OCT-91
Invoice No. :I9122707
P.O. Number :

## CERTIFICATE OF ANALYSIS A9122707

| SAMPLE DESCRIPTION | PREP CODE | | Au oz/T | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RL-202C 140-145 | 205 | 294 | 0.002 | | | | | | | | | |

CERTIFICATION: Sandra M Adam

# Chemex Labs Inc.

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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

Page Number :1
Total Pages :2
Certificate Date: 22-AUG-91
Invoice No. :I9119755
P.O. Number :

## CERTIFICATE OF ANALYSIS A9119755

| SAMPLE DESCRIPTION | PREP CODE | | Au oz/T |
|---|---|---|---|
| RL189 630-635 | 208 | 294 | 0.002 |
| RL190 445-450 | 208 | 294 | 0.003 |
| RL190 495-500 | 208 | 294 | 0.007 |
| RL190 590-595 | 208 | 294 | 0.011 |
| RL201C 45-50 | 208 | 294 | 0.001 |
| RL201C 145-150 | 208 | 294 | < 0.001 |
| RL201C 195-200 | 208 | 294 | 0.003 |
| RL201C 245-250 | 208 | 294 | 0.002 |
| RL201C 295-300 | 208 | 294 | 0.001 |
| RL201C 345-350 | 208 | 294 | 0.006 |
| RL201C 445-450 | 208 | 294 | 0.003 |
| RL201C 485-500 | 208 | 294 | 0.025 |
| RL201C 545-550 | 208 | 294 | 0.001 |
| RL201C 590-595 | 208 | 294 | 0.011 |
| RL201C 640-645 | 208 | 294 | 0.003 |
| RL201C 684-688 | 208 | 294 | 0.014 |
| RL201C 733-738 | 208 | 294 | 0.005 |
| RL201C 780-784 | 208 | 294 | 0.004 |
| RL201C 826.5-831 | 208 | 294 | 0.003 |
| RL201C 873-877 | 208 | 294 | 0.099 |
| RL202C 573-578 | 208 | 294 | 0.004 |
| RL202C 622-627 | 208 | 294 | 0.003 |
| RL202C 664-669 | 208 | 294 | 0.004 |
| RL202C 713-718 | 208 | 294 | 0.005 |
| RL202C 763-768 | 208 | 294 | 0.002 |
| RL211 500-505 | 208 | 294 | 0.002 |
| RL211 550-555 | 208 | 294 | < 0.001 |
| RL212 045-050 | 208 | 294 | 0.002 |
| RL212 095-100 | 208 | 294 | 0.001 |
| RL212 145-150 | 208 | 294 | 0.003 |
| RL212 195-200 | 208 | 294 | 0.003 |
| RL212 245-250 | 208 | 294 | 0.002 |
| RL212 295-300 | 208 | 294 | 0.002 |
| RL212 345-350 | 208 | 294 | 0.003 |
| RL212 395-400 | 208 | 294 | 0.004 |
| RL212 445-450 | 208 | 294 | 0.004 |
| RL212 495-500 | 208 | 294 | 0.003 |
| RL212 545-550 | 208 | 294 | 0.006 |
| RL212 595-600 | 208 | 294 | 0.045 |
| RL212 645-650 | 208 | 294 | 0.012 |

CERTIFICATION: Sandra M Adam