60001620

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-241C |
| AUTHOR | K. Kemer; T. Kuhl; R. Donata; S. Adam |
| 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; Dozer; Bondar-Clegg Inc. Chemex Labs Inc |
| COMMODITY<br>If not obvious | gold silver |
| NOTES | Drill log; geology; assay; total depth 541' handwritten notes<br>~~25~~ p. 27 |

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
Rosebud

RL-241

60001620 4010

6000 1621

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

## DRILL LOG SUMMARY SHEET

PROJECT ROSEBUD TOTAL CORE

HOLE NUMBER RL-241C TOTAL DEPTH 541' LOGGED BY KLK

Date started 8-29-91

Date completed 9-4-91

Initial bearing

Initial inclination vertical

Elevation

Collar coordinates:

N

E

Contractor: COATES

Drill Type: universal RC/CORE

Hole Size: HQ

Drilling Conditions:

Footage: Wet / Dry

Comments: Recoveries are recorded on the RQD log.

DOWN HOLE SURVEY INFORMATION

| FROM | TO | SURVEY POINT | INCLI-NATION | BEARING | X (Northing) | Y (Easting) | Z (Elevation) |
|---|---|---|---|---|---|---|---|
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HOLE # RL-241C LOGGED BY KLK DATE 9-91 PAGE 1 OF 8

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | | | 30° Chalcedony plug | COLLUVIUM | | COLLUVIUM | Bright Orange BWN | 0-31 OVERBURDEN<br>0-15.5 Colluvium<br>15.5-15.9 chalcedonic plug @ 30° to CA. milkly white & intermittently butterscotch color. possible fault surface w/ footwall intense clay + limonite alt. intensely argillized | No SAMPLE | | | | | |
| 20 | | | | tr limon replac sulf (py?) | | STR LIMONITE + clay | | 15.9-21.5 limonitic clay gouge cemented bleached tuffaceous clasts - conglomerate | 15.5-21 | | | | < | .03 |
| | | | | | | | | 21.5-31 Limonitic - intense - clay gouge w/ few oxidized tuffaceous frags.<br>29-29.2 lt gray buff brecciated chalcedony w/ 1-2mm vugs of eaten out druzy lined vein. goethite + limonite fill. | 21-26 | | | | < | .03 |
| 30 | | | | | | | | 31-327.9 LBT - FINE GRAINED TUFF | 26-31 | | | | < | .06 |
| | | 15° 30° + 70°-80° fract FeOx uns | | ± 1% limon replac py | | STR LIMONITE local str m-s bl local XXX | Buff + lt grn + limonitic fracts | 31-44 Fine grained tuff, pervasively bleached & intermittently brecciated w/ assoc. m-s perv. silicification zones w/o X it is intensely clay gouge w/ str. assoc. Earthy limonite. Fractures predom. subparallel w/ few 70-80° to CA. w/ earthy limonite + hemitite + poss local jarosite local trace celadonite (grn) alt. | 31-36 | | | | .005 / .005 / .010# | .06 |
| 40 | | | | | | | | | 36-41 | | | | < | .04 |
| | | | | | | | | | 41-46 | | | | < | .06 |
| | | | 65° XXX | 1-2% FeOx replac py | | SXXX S bl + FeOx | Alt influence of fault ≈ XX ≈ FAULT! | | | | | | | |
| 50 | | 20° | | | | m bl m XX local ~ m FeOx | gray peach | 44-47.3 Predominantly bleached chalcedonic scab locally brecciated w/ fractures subparallel to CA w/ earthy limon + hemit ± jarosite ± goethite host is perv. s bleached 2-3 stgs Δ. | 46-49 | | | | < | .07 |
| | | | | | | | | | 49-54 | | | | < | < |
| | | 55° SiO2 FeOx stkwk | | ≤1% FeOx replac py | | m bl m-s ≈ w-m celad | green flesh + buff | 47.3-54.7 peach to gray peach FGT - pervasively crackle brecciated to fully rotated breccia. strongly fractured w/ possible alunite + butterscotch SiO2 filling w/ local FeOx replaced pyrite phenos. w-m pervasively silicified hosts - pre fracturing, perv. bl moderately vicldled w/ fine qtz stkwk fract uns 30 → >50/ft. few fine vuggy druzy qtz uns filled w/ earthy limon + hemitite | 54-59 | | | | < / < | .09 / .09 |
| 60 | | | | | | | | | 59-64 | | | | < | .05 |
| | | | | | | | | | 64-69.5 | | | | < | .07 |
| 70 | | | | | | | | | | | | | | |

HOLE # RL-241C LOGGED BY KLK DATE 9-91 PAGE 2 OF 8

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. | COLOR |
|---|---|---|---|---|---|---|---|
| 80 | | ±60° bed. cling; 60° SiO2 FeOx clay vns | | 1-2% FeOx replac py | | M bl M ≈ W-M local X W-M celadonite M FeOx | BUFF + Flesh + GRN |
| 90 | | | | | | S ≈ | |
| 100 | | 60 70° py vns | | 2% diss + vn py | | W bl m-S ≈ m-S celad | gray grn |
| 110 | | 20° 30° clay FeOx vns | | ±1% limon replac py | | m-S bl m-S ≈ tr celad wk limon | peach + buff wk local grn |
| 120 | | 35° 40° + | | 2-3% diss + vn py locally limon replaced | | M bl M ≈ W-M LIMON | peach to gray white |
| 130 | | 60-70° SiO2 FeOx clay sericite vns | 30° 30° gouge 60° | 30° 90° 60° | | OX / RE | |
| 140 | | | | | | | |

## DESCRIPTION

31 - 327.9 LBT

54.7 - 121 Mixed Fine grained tuff fragmental LBT - plus "Bud" like fine lithic lapilli tuff lenses w/ associated celadonite green alteration. Possibly represents a stream deposited episode! Within lithic lapilli zones lithics are 1-3 mm wide bleached buff + clay altered. matrix is argillized celadonite alt. Few interbeds of very fine clays w/ beds represented @ ~ ±60° to CA. True tuff beds are bleached w/ hint green moderatly well fracture veining w/ possible alunite + Kaolinite + earthy limonite, v. weak hemitite ± SiO2 locally brecciated w/ clays + FeOx ± SiO2 fill + filling interstices of rock fabric local pods of goethite + limon replaced py phenos. ~3 stages veining:

1) up to 10 mm milky white chalcedony vns
2) < 1 mm cross cutting fracture veins w/ earthy limonite fill ± clay
3) 1-4 mm uggy druzy qtz vns w/ earthy limonite + local goethite + Kaolinite + poss. sericite fill

89.5 - 96.5 str. argillic clay alt ± limon

100 - 106 OXIDATION drops off - a true lithic lapilli tuff w/ perv. celad. alt. w/ pods + vns of pyrite + wk Kaolin fracts

106 - 121 oxidized veins pick up again becomes a coarser fragmental - LLT into volc. bxa mod fracture veining ~ 3-5 ft w/ Kaolinite + earthy limonite fill ± local SiO2 - uggy + v. fine qtz stkwk.

111.5 - 118.6 broken rubble w/ assoc str. argillic alt + w-m limonite

← 138.6' RE/OX BOUNDARY

## ASSAYS

| Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|
| 69.5-75 | | | | < | .06 |
| 75-80 | | | | < | .04 |
| 80-85 | | | | < | .05 |
| 85-90 | | | | < | .03 |
| 90-96 | | | | < | .05 |
| 96-101 | | | | < | .05 |
| 101-106 | | | | < | .04 |
| 106-111 | | | missing | | |
| 111-117 | | | | .004 / .005 | .07 |
| 117-122 | | | | < | .07 |
| 122-127 | | | | < | .06 |
| 127-132 | | | | .004 | .06 |
| 132-137 | | | | .004 / .012 | .09 / .06 |
| 137-142 | | | | .005 | .08 |

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. | COLOR |
|---|---|---|---|---|---|---|---|
| 150 | | 30° 60° qtz clay sulf vns | | 4-5% diss + vn py + marcasite | | Mbl M~ M sericite | PEACH-M + BUFF-C |
| 160 | | | | | | | |
| 170 | | clay cemented rubble | | 2-3% buck shot + vn + diss py | | Mbl S~ M FeSO4 M sericite | PEACH + BUFF + GOLDEN |
| 180 | | 30° 60° Siliz clay sulf vns | | ±4% diss + vn py + marcasite + chal copy + poss. argentite + ? Cu oxides | | Mbl W-M ~ M sericite ? X | PEACH + BUFF FRAGS |
| 190 | | | | | | | |
| 200 | | | | | | | |
| 210 | | | | | | same @ ↑ + FeSO4 | BUFF-lt grn w/ Golden sulf. Dx |

## DESCRIPTION

31-327.9 LBT

121-207 LBT - volcaniclastic - clast size ranges from a lithic lapilli tuff to a volcanic breccia. The fine gr. peach tuffaceous matrix supports average sized clasts 2-8 mm which are also a FGT perv. bleached to buff/white; moderatly to strongly clay alt. clasts >25 mm wax; wane throughout; are bleached + clay alt. tuff frags; clasts are subrounded to angular. clastic texture reflects depositional nature. Pervasive sericitic; argillic alt.

121-138.6 moderatly veined; fracture veined w/ ~ 2 stages 1) fine ± 1mm qtz ± limonite stockwork 2) fracture veining lined w/ fine druzy vuggy qtz veins 1-10 mm wide filled w/ earthy limonite + Kaolinite ± sericite + local limon. replaced py. averages ~ 5-15 vns/ft

131.6-135 broken rubble + clay gouge. Upper cont. @ 30° to CA Lower cont @ 60° to CA

138.6-164 Oxidation drops off 2-3 predom stages of veining 1) fine qtz ± sulf stkwk w/in isolated tuff clasts 2) crosscutting <1mm fine qtz stkwk 3) late stage 1-4 mm druzy qtz lined veins - vuggy w/ Kaolinite + sericite + marcasite + local lt green duck butter clays poss w/ some oxidized FeSO4 + pyrite averaging ~ 5-9 vns/ft

164-17 w/ lt golden (FeSO4?) oxide assoc. w/ white clay vns. Mixed broken rubble + clay gouge str. perv. argillic alt. white + gray + limon clays

174-175 w/ strong dark gray clays - gouge w/ oxidized + white clays

154-179 intermittent clay gouge + broken rubble

176-207 Lithology ~ lithic lapilli tuff. w/ finer clastic nature, classic peach color w/ local bleached white clasts. Pervasive alt is w-m argillic + sericitic alt. descrip contin →

## ASSAYS

| Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|
| 142-147 | | | | .002 | .04 |
| 147-152 | | | | .003 | .07/.06 |
| 152-157 | | | | < | .09 |
| 157-161 | | | | .002 | .07 |
| 161-164 | | | | < | .06 |
| 164-167 | | | | .009/.010 | .13 |
| 167-173.5 | | | | .006 | .11 |
| 173.5-178.2 | | | | .018 | .11 |
| 178.2-183 | | | | .097 | .23 |
| 183-188 | | | | .098 | .31 |
| 188-193 | | | | .048 | .20 |
| 193-197 | | | | .057 | .46 |
| 197-201 | | | | .02 | .19 |
| 201-205 | | | | .016 | .12 |
| 205-210 | | | | .021/.021 | .08 |

HOLE # RL-241C LOGGED BY KLK DATE 9-91 PAGE 4 OF 8

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. | COLOR |
|---|---|---|---|---|---|---|---|
| 220 | | 90° qtz clay sulf vns; 30° 80° CaCO3 sulf vns | FAULT? | 2% diss + vn py ± marcasite; 3-4% py + chalco py | | mbl m-s wk grn alt; Mbl MXV W | Lt grn + golden; Lt. sage grn; peach + buff |
| 230 | | 15°; 60° CaCO3 clay sulf vns | | ±2% diss + vn py + marcasite + local chalco py + poss covellite | | Wbl tv celad fracs local W | Lt sage green |
| 240 | | | | | | | |
| 250 | | | | | | | |
| 260 | | | | | | | |
| 270 | | | | | | | |
| 282 | | 60° | | 2-3% diss + vn py | | wbl SXX | gray green flesh |

## DESCRIPTION

31-327.9 LBT

176-207 (continued) could possibly have some secondary brecciation w/ wk assoc. silicification clasts composed of FGT + flow banded tuff ~ 3+ stages of veining 1) disjointed stringers + stkwk ≤ 1 mm of qtz py ± clay veinlets - locally amber brown uncountable 2) fine pure white waxy-Kaolinite? clay veins 3) prominent latter stage veining w/ $SiO_2$ + py + marcasite + chalcopyrite + poss argenitite - (blk earthy looking metallic or Cu oxides + Kaolinite ± sericite, veins average ~ 10-30+/ft.

Poss. FAULT 207-222 calcite w/in system now.

184-210 decrease in fragmental texture w/ ↓ black oxide looking vein fill (argentite?)

186-222 intermittent pervas. broken rubble - a mess

207-222 Fine grained tuff - almost aphanitic acts like a mud stone - breaks into rubble when split - str clay content - lt sage grn can break w/ fingers - brittle fracture w/ white to lt gray clay fill locally brecciated.

207-213 w/ pervs. golden oxide fracture coating + Kaolinite + marcasite + py.

Intro to $CaCO_3$ → 213-216 brecciated w/ local box work $SiO_2$ replaced poss. dog tooth - angle wing $CaCO_3$ w/ amber brown druzy fine qtz lining vugs: clay, $CaCO_3$ + py ± chalco filling fractures & interstices of breccia

223-227 poss fault - volcaniclastic w/ poss. secondary brecciation poss w.h. pervs. silicification - Lithic lapilli sized clasts ~ 2-3 stage veining w/ $CaCO_3$ + chalcopyrite + pyrite + local white clay fill. averaging ~ 3-8 vns/ft.

227-286.2 Lt. sage green fine grained Tuff - similar appearance to Boyer descrip follows →

## ASSAYS

| Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|
| 210-215 | | | | .005 / .017 # / .006 | < / < |
| 215-223 | | | | .002 | < |
| 223-227 | | | | .006 | < |
| 227-232 | | | | < | < |
| 232-237 | | | | < | < |
| 237-244 | | | | < | < |
| 244-249 | | | | < | < |
| 249-254 | | | | .004 | < |
| 254-259 | | | | < | < |
| 259-264 | | | | < | < |
| 264-269 | | | | < / < | < |
| 269-273 | | | | < | < |
| 273-278 | | | | .004 | < |

HOLE # RL-241C LOGGED BY KLK DATE 9-91 PAGE 5 OF 8

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. | COLOR |
|---|---|---|---|---|---|---|---|
| | | CaCO3 clay py vns; 50°; 20°; 50°; CaCO3 silc clay vns; 70°; banding; 20°; 60°; CaCO3 py clay vns; BEDDING 50°; 20°; 60°; CaCO3 or clay vns | 50°; 30° OR 60°; EPI contact | ~3% diss tvn py + marcasite + local chalco py; ±2% diss tvn py + local marcasite; 1-2% diss tvn py + marcasite | 50°; 60° | wbl SXX X; Mbl poss WX; Mbl W-M W smectite; wbl M-S M celad | gray green flesh; FLESH; Lt sage grn; Lt-med deep sea green |

DESCRIPTION

31 - 327.9 LBT

327.9 - 482.5 EPI

227-286.2 sage grn FGT continued - densely welded Dozer like - locally tectonically brecciated to crackle brecciated crackle fractures have coating of: cladonite ± local CaCO3 + orange (boiling oxide?) ~2 stages of veining 1) fine CaCO3 stkwk 2) CaCO3 + pyrite + marcasite + local chalcopy + poss covellite + local white Kaolinite ~ 2-5 vns/ft

273-286.3 silicified intermittently brecciated matrix locally bleached to flesh, riddled w/ fine qtz stkwk 2 other vein episodes: 1) qtz clay py ± CaCO3 vns 2) most predom calcite vns up to 2" wide w/ assoc. Kaolinite + pyrite ~1-4 vns/ft

286.2 - 306.7 Volcaniclastic - LBT - fragmental lithic lapilli tuff w/ poss some secondary brecciation clastics are FGT + flow banded. Veining is weak ? locally moderate composed of 2-10 mm CaCO3 + clay + py + local marcasite + [chalco pyrite. w/in interval 298'-303'] 1-3 vns/ft → + local black oxide? (Ag-argentite?)

306.7 - 327.9 Lr sage grn fine grained tuff locally mottled flesh ? tectonically brecciated very weakly veined ±1 mm CaCO3 + py + clay ± marcasite veinlets ±1 vn/ft

327.9 - 482.5 : EPI → "BUD-LIKE" LITHIC LAPILLI TUFF : bedded and pervasively argillized and cladonite altered. Description follows →

ASSAYS

| Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|
| 278-283 | | | | .002 | < |
| 283-288 | | | | .005 | < |
| 288-293 | | | | < | < |
| 293-298 | | | | .004 | < |
| 298-303 | | | | .022 | .05 |
| 303-308 | | | | < | <<br>< |
| 308-313 | | | | .007 | .04 |
| 313-318 | | | | < | < |
| 318-323 | | | | .003<br>.003 | < |
| 323-328.5 | | | | < | < |
| 328.5-333 | | | | < | < |
| 333-338 | | | | < | < |
| 338-343 | | | | < | < |
| 343-351 | | | | < | < |

HOLE # RL-241C LOGGED BY KLK DATE 9-91 PAGE 6 OF 8

| 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 360, 370, 380, 390, 400, 410, 420 | | 50° BEDDING; 15°; 50° clay ±calc vns; 50° bedding | 80° gouge 40° | 1-2% diss + vn py ± marcasite | gouge; clay gouge | w-m bl; m-s; m celadonite + smectite | lt-med deep sea green | 327.9 - 482.5 EPI<br>327.9 - 435.5 CLASSIC "BEDDED BUD-LIKE" LITHIC LAPILLI TUFF heterolithic clasts are bleached white to clay altered to lt smectite green alt. to wk local flesh coloration - averaging 2-10 mm, graded bedding thru out w/ local zones of coarse clastic >70 mm lenses and elsewhere lithics average ≤ 2 mm. matrix is pervasively smectite to celadonite green clay altered. w/ few intermittent clay gouge seams (lt. green) and broken rubble. Weak veining throughout composed of Kaolinite + local calcite + py ± marcasite. Very sparse black earthy (oxide?). Veining averages ~ <1 to 3 veins/ft. Bedding ±50° to CA<br>358.6 - 362.5 mixed broken rubble & clay gouge<br>382.3 - 383 clay gouge lower contact @ ±40° to CA<br>382.3 - 403.3 coarser clastic w/ up to ±70 mm sized clasts<br>403.3 - 429 intermittently wispy<br>394 - 398 very strong calcite veining predom subparelle to CA. & up to 8½" wide. - carries no Au<br>421 - 421.9 medium green clay gouge seam<br>421.9 - 422.5 bl sandy-volcanic sedim. | NO SAMPLE | | | | | |
| | | | | | | | | | 394-398 | | | | < | < |
| | | | | | | | | | NO SAMPLE | | | | | |

HOLE # RL-241C LOGGED BY KLK DATE 9-91 PAGE 7 OF 8

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. | COLOR |
|---|---|---|---|---|---|---|---|
| 430 | | 50° BEDDING 15° 50° clay ± caco3 vns | | 1-2% diss tvn py ±vn marcasite | gouge | W-M bl m-s M smectite ±celad | Lt-med deep sea green |
| 440 | | 40° clay caco3 sulf vns | | ~2% diss tvn py ±vn marcasite | | W bl W-M M smectite ± celadonite | Lt sage wk local deep sea green |
| 450 | | | | | | | |
| 460 | | | | | | | |
| 470 | | 10 30° clay caco3 sulf vns | 20°-30° SHEAR | 2-3% diss tvn py ±local blue green oxide | Gv | M-S bl S wk smectite | M Deep sea green Buff ± wk flesh hint sage grn |
| 480 | | 40° 0° caco3 kaolin sulf sericite vns | | 2-3% diss tvn py + chalco py | | W-M bl W w smectite | Lt sage green to buff |
| 490 | | | | | | | |

## DESCRIPTION

327.9 - 482.5 EPI

482.5 - 541 DOZER TUFF

SRF: 464.5 - 482.5 FAULT: 495.8 - 501.6

429 - 437.5 intermittent broken rubble

435.5 - 464.5 Lithic Lapilli Tuff - in category of Bedded Bud w/ similar description @ noted above however does contain black carbonaceous shale basement fragments @ ~ ± 3% w/ decrease in overall argillic alterat and weak local black matrix bxa appearance. Predominantly coarser clastic averaging ~ 10-30 mm w/ 2-4 mm finer lithic matrix. Weakly veined ≤ 1mm filled w/ Kaolinite + sericite + $CaCO_3$ + pyrite + local possible marcasite. Veining ~ 1-4/ft.

464.5 - 482.5 EPI - SOUTH RIDGE FAULT

host → EPI - BEDDED BUD-LIKE similar to 328.5 - 435.5 w/ increased bleaching + m-s pervasive argillic + sericitic alt. w/ few clay cemented rubble zones ? possible local secondary brecciation w/ clay + sericite gouge cement. Few local silicified zones

Intermittent fine stockwork qtz ? fine py stringers

464.5 - 471.3 prominent clay gouge cemented LLT

472'-473 shear zone @ ~ 20° + to CA. w/ assoc. gouge cemented LLT @ ~ 473' ± 1mm gray sulfide rich seam

471.5 - 482.3 Intermittent clay gouge cemented rubble zones

poss local Cu Oxides

## ASSAYS

| Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|
| NS | | | | | |
| 429-434 | | | | .006 | < |
| 434-439 | | | | < | < |
| 439-444 | | | | < | < |
| 444-449 | | | | <½ | < |
| 449-454 | | | | < | < |
| 454-459 | | | | .003 | < |
| 459-464 | | | | < | < |
| 464-469 | | | | < | < |
| 469-474 | | | | < | .14/.17 |
| 474-478 | | | | .002 | .05 |
| 478-482.5 | | | | < | < |
| 482.5-487 | | | | < | < |
| 487-492 | | | | < | < |

HOLE # RL-241C LOGGED BY KLK DATE 9-91 PAGE 8 OF 8

| DEPTH (ft) | RECOVERY | Structure: Bd. Fol. | Structure: Faults | MINERALIZATION | GRAPHIC LOG | ALTER. | COLOR | DESCRIPTION |
|---|---|---|---|---|---|---|---|---|
| | | 40° VNS @ 45 | 45-50 gray clay sulf seam | 2-3% py + chalc py | DT | W-M bl W smect | Lt sage grn | 482.5-541 DOZER TUFF |
| 500 | | | | 3-4% diss + vn py + chal copy + mar casite VNS | M-S bl W-M + tr smect | | FAULT | 482.5-495.8 DT - Lt. sage green Fine grained tuff intermittently tectonically brecciated w/ few broken rubble clay cemented zones & locally crackle fractured. moderatly veined w/ 1-4mm veins w/ white Kaolinite + sericite + local calcite + pyrite & assoc. chalcopyrite fill locally expressed @ fine stringers. prominent veining averages ~6-8 VNS/ft Also viddled w/ fine qtz ± py stkwk |
| 510 | | 10° 60° | CaCO3 clay sulf sericite VNS | | | | | → zone begins w/ 1½" gray sulfide vein clay seams @ 45-50° to CA. |
| 520 | | | | | | S | | 495.8-541 DT - FGT - pervasively brecciated w/ local vein brecciation w/ tuffaceous matrix - possibly locally tectonic (dry) elsewhere locally weak hydrothermal vein Δ. Few local white clay gouge seams. Clasts are subrounded to angular. Pervasively viddled w/ fine qtz stkwk <1mm & averaging >50/ft. moderatly str veining throughout ~1-5 mm w/ Kaolinite + sericite + calcite + pyrite + marcasite + poss. chalcopyrite ~1-6 vns/ft (varies thruout) |
| 530 | | | | | | | | |
| 541 | | | | | | | | 541' T.D. 495.8-501.6 FAULT - up to 8" white clay cemented rubble zones + brecciated w/ qtz stkwk viddled thru out. Local calcite veins up to 15 mm wide w/ assoc. Kaolinite. white clay (Kaolin) filling interstices of rubble thru out. |
| | | | | | | | | 518-522 local broken rubble w/ clay cement |
| | | | | | | | | 523-541 decrease in clay rubble more competent w/ drier looking tectonic Δ. very little rubble |

ASSAYS

| Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
|---|---|---|---|---|---|
| 492-496 | | | | <1/< | < |
| 496-500 | | | | < | .04 |
| 500-505 | | | | < | < |
| 505-510 | | | | ↓ | ↓ |
| 510-515 | | | | | |
| 515-519 | | | | | |
| 519-523 | | | | | |
| 523-528 | | | | < | <1/< |
| 528-533 | | | | ↓ | < |
| 533-537 | | | | | < |
| 537-541 | | | | <1/.003 | < |

GEOTECHNICAL LOG



PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS

HOLE NO.: RL-241C DIP: Vertical CORE SIZE: HQ DATE: 9-5-91

| 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 |
| 10 | 15.5 | 5.5 | 0.9 | 0.0 | SEE NOTE | 16 | 0 | — | | Gravel and surface mud. |
| 15.5 | 23 | 7.5 | 6.9 | 1.25 | 1 | 92 | 17 | | 40° | J/TH/SL //// Mostly mud. |
| 23 | 33 | 10 | 9.5 | 3.85 | | 95 | 39 | | | Note: core chunks composed of surface |
| | | | | | | | | — | | mud, strongly argillized breccia |
| 33 | 43 | 10 | 9.9 | 7.0 | | 99 | 70 | 0.4 | | Note: 33'-41' strongly argillized; crumbles |
| | | | | | | | | | | easily when handled. |
| | | | | | 4 | | | | 0-40° | VN/TH, FD/CLY/R |
| 43 | 49 | 6 | 6.0 | 2.15 | 8 | 100 | 36 | 2.0 | 40-65° | VN/TH, FD/CLY/PL-R |
| | | | | | 4 | | | | 0-25° | VN/TH, FD/CLY/R |
| | | | | | | | | | | Note: small zones of mud and rubble. |
| 49 | 59 | 10 | 9.8 | 6.3 | 17 | 98 | 63 | 1.7 | 30-75° | VN/TH, FD/CLY/R |
| 59 | 69.5 | 10.5 | 10.05 | 6.4 | 13 | 96 | 61 | 1.9 | 45-70° | VN/TH, FD/CLY/W-R |
| | | | | | 6 | | | | 0-30° | VN/TH, FD/CLY/W-R |
| | | | | | | | | | | Note: 69'-69.5' Broken rubble |
| 69.5 | 80 | 10.5 | 9.8 | 6.75 | 24 | 93 | 64 | 2.4 | 35-90° | VN/TH, FD/CLY/W-R |
| 80 | 90 | 10 | 9.7 | 8.0 | 12 | 97 | 80 | 1.2 | 45-90° | VN/TH, FD/CLY/W-R |
| 90 | 96 | 6 | 3.3 | 0.5 | SEE NOTE | 55 | 8.3 | — | | Note: 89.5'-96.5' Mostly Clayey rubble and Crumbly core. |
| 96 | 104 | 8 | 6.5 | 2.85 | 14 | 81 | 36 | 2.2 | 30-90° | J, VN/TH, FD/CLY/W-R |
| | | | | | | | | | | Note: 100.5'-104' Broken rubble |
| 104 | 112 | 8 | 6.8 | 4.6 | 15 | 85 | 58 | 2.2 | 25-55° | VN/TH, FD/CLY/PL, W |
| | | | | | | | | | | Note: 111.5'-112', Broken rubble |
| 112 | 115.5 | 3.5 | 2.7 | 0.35 | 7 | 77 | 10 | 3.7 | 35-75° | VN/TH, FD/CLY/W-R |
| | | | | | 3 | | | | 10-30° | VN/TH, FD/CLY/W-R |
| | | | | | | | | | | Note: 113'-115.5' Mostly Br. rubble. |
| 115.5 | 118.5 | 3.0 | 2.4 | 1.2 | | 80 | 40 | 1.3 | | Note: 116'-118.5' Mostly Br. rubble. |
| | | | | | 3 | | | | 15-55° | VN/TH, FD/CLY/R |
| 118.5 | 129 | 10.5 | 10.0 | 4.85 | 22 | 95 | 46 | 2.6 | 35-75° | VN/TH-OP, FD/CLY/R |
| | | | | | 4 | | | | 0-30° | VN/TH-OP, FD/CLY/R |
| | | | | | | | | | | Note: Clay gouge and rubble at 127' |
| 129 | 137 | 8 | 6.4 | 2.15 | 17 | 80 | 27 | 2.7 | 25-85° | VN/TH, FD/CLY/R |
| | | | | | | | | | | Note: 131.5'-135' Clay gouge zone |

GEOTECHNICAL LOG



PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS

HOLE NO.: RL-141C DIP: Vertical CORE SIZE: HQ DATE: 9-5-91

| 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 |
| 137 | 147.5 | 10.5 | 9.6 | 6.2 | 19 | 91 | 59 | 2.0 | 30-75° | VN, ± VG/TH-OP, FD/CLY, ±QTZ/R |
| 147.5 | 157 | 9.5 | 8.5 | 5.6 | 15 | 89 | 59 | 2.1 | 30-75° | VN/TH, FD/CLY/R |
| | | | | | 3 | | | | 0-25° | VN/TH, FD/CLY/R |
| 157 | 161 | 4.0 | 3.7 | 1.2 | 7 | 93 | 30 | 3.0 | 45-90° | VN/TH, FD/CLY/W-R |
| | | | | | 4 | | | | 0-35° | VN/TH, FD/CLY/W-R |
| | | | | | | | | | | Note: Scattered rubble zones |
| 161 | 167 | 6.0 | 5.0 | 2.65 | 13 | 83 | 44 | 3.2 | 35-85° | VN/TH-OP, FD/CLY/W-R |
| | | | | | 3 | | | | 0-20° | VN/TH, FD/CLY/W-R |
| | | | | | | | | | | Note: 166'-177' Mostly clay gouge and rubble |
| 167 | 173 | 6.0 | 2.8 | 0.4 | SEE NOTE | 47 | 7 | — | | |
| 173 | 177.5 | 4.5 | 1.7 | 0.0 | " " | 38 | 0 | — | | |
| 177.5 | 183 | 5.5 | 4.6 | 3.85 | 10 | 84 | 70 | 2.2 | 35-65° | VN/TH, FD/CLY/R |
| 183 | 192 | 9.0 | 4.5 | 1.3 | 13 | 50 | 14 | 3.8 | 55-65° | VN/TH, FD/CLY/R |
| | | | | | 4 | | | | 0-30° | VN/TH, FD/CLY/W-R |
| 192 | 197 | 5.0 | 3.0 | 0.4 | | 60 | 8 | 4.7 | → | Note: 185'-215' Mostly Broken Rubble |
| | | | | | | | | | | and small core chunks. |
| | | | | | 14 | | | | 35-80° | VN/TH, FD/CLY, ± PY/W-R |
| 197 | 201 | 4.0 | 2.5 | 0.0 | 11 | 63 | 0 | 6.0 | 30-70° | VN/TH, FD/CLY/W-R |
| | | | | | 4 | | | | 0-25° | VN/TH, FD/CLY/W-R |
| 201 | 204.5 | 3.5 | 2.9 | 0.35 | 13 | 83 | 10 | 5.5 | 40-90° | VN/TH, FD/CLY/W-R |
| | | | | | 3 | | | | 0-30° | VN/TH, FD/CLY/W-R |
| 204.5 | 207 | 2.5 | 1.5 | 0.0 | 3 | 60 | 0 | 2.0 | 30-80° | VN/TH, FD/CLY/R |
| 207 | 209 | 2.0 | 1.5 | 0.4 | 7 | 75 | 20 | 4.7 | 30-55° | VN/TH, FD/CLY/PL, R |
| 209 | 210 | 1.1 | 0.6 | 0.35 | 3 | 55 | 32 | 5.0 | 55-70° | VN/TH, FD/CLY/R |
| 210 | 215 | 5.0 | 3.0 | 0.0 | 15 | 60 | 0 | 7.0 | 35-75° | VN/TH, FD/CLY/R |
| | | | | | 6 | | | | 0-25° | VN/TH, FD/CLY/R |
| | | | | | | | | | | Note: 210'-215' Crumbly Core; |
| | | | | | | | | | | obvious, preferrential angles noted |
| 215 | 218 | 3.0 | 1.9 | 0.55 | 6 | 63 | 18 | 3.2 | 50-70° | VN/TH, FD/CLY/R |
| 218 | 223 | 5.0 | 1.7 | 0.7 | | 34 | 14 | 1.8 | | Note: 216.5-222' Broken rubble; Clay gouge at 218.5' |
| | | | | | 3 | | | | 30-75° | VN/TH, FD/CLY, ± CAL/R |

GEOTECHNICAL LOG



PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS

HOLE NO.: RL-241 C DIP: Vertical CORE SIZE: HQ/NQ DATE: 9-6-91

| 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 |
| 223 | 226 | 3.0 | 2.55 | 2.35 | 6 | 85 | 78 | 2.4 | 50-80° | VN/TH, FD/CLY, ± CAL, QTZ/W-R |
| | | | | | | | | | → | Note: Reduction to "NQ" core at 226' |
| 226 | 236.5 | 10.5 | 10.3 | 7.15 | 17 | 98 | 68 | 1.7 | 30-80° | VN/TH-OP, FD/CLY, ± CAL/PL-W,R |
| 236.5 | 244 | 7.5 | 4.6 | 2.9 | 9 | 61 | 39 | 2.8 | 35-60° | VN/TH, FD/CLY, CAL/PL-R |
| | | | | | 4 | | | | 10-30° | VN/TH, FD/CLY, CAL/PL-W |
| 244 | 249 | 5.0 | 2.2 | 1.0 | | 44 | 20 | 2.3 | | Note: 245.5'-249.5' Broken rubble |
| | | | | | 5 | | | | 45-80° | VN/TH, FD/CLY, ± CAL/PL-R |
| 249 | 251.5 | 2.5 | 2.3 | 0.35 | 11 | 92 | 14 | 5.2 | 30-65° | VN/TH, FD/CLY/PL-W |
| | | | | | 1 | | | | 5° | VN/TH, FD/CLY/W |
| 251.5 | 256 | 4.5 | 3.8 | 2.0 | 9 | 84 | 44 | 2.4 | 40-55° | J, VN/TH, FD/CLY, ± CAL/PL-W |
| 256 | 264 | 8.0 | 7.4 | 4.15 | 20 | 93 | 52 | 3.1 | 45-90° | VN/TH, FD/CLY, CAL/PL-W |
| | | | | | 3 | | | | 0-30° | VN/TH, FD/CLY, CAL/PL, W |
| 264 | 273 | 9.0 | 9.2 | 6.3 | 26 | 102 | 70 | 2.8 | 25-65° | VN/TH, FD/CLY, CAL/PL-W |
| 273 | 283 | 10.0 | 9.3 | 7.2 | 19 | 93 | 72 | 2.6 | 45-75° | VN/TH, FD/CLY, ± CAL/PL-R |
| | | | | | 5 | | | | 0-30° | VN/TH, FD/CLY, ± CAL/PL-W |
| 283 | 286 | 3.0 | 2.05 | 1.5 | 3 | 68 | 50 | 1.5 | 0-50° | VN/OP, FD/CAL, CLY/R |
| 286 | 291 | 5.0 | 4.9 | 3.0 | 11 | 98 | 60 | 2.9 | 30-85° | VN/TH-OP, FD/CLY, ± CAL/PL; R |
| | | | | | 3 | | | | 0-20° | VN/TH, FD/CLY, ± CAL/R |
| 291 | 301 | 10.0 | 9.85 | 7.65 | 11 | 99 | 77 | 1.7 | 40-70° | VN/TH, FD/CLY, ± CAL/W-R |
| | | | | | 6 | | | | 0-25° | VN/TH, FD/CLY, ± CAL/W-R |
| 301 | 311.5 | 10.5 | 9.9 | 8.4 | 12 | 94 | 80 | 1.7 | 50-65° | VN/TH, FD/CLY, CAL/R |
| | | | | | 5 | | | | 0-25° | VN/TH, FD/CLY, CAL/R |
| 311.5 | 322 | 10.5 | 9.95 | 8.7 | 12 | 95 | 83 | 1.5 | 45-95° | VN/TH, FD/CLY, ± CAL/R |
| | | | | | 3 | | | | 0-15° | VN/TH, FD/CLY, CAL/W-R |
| 322 | 328.5 | 6.5 | 6.35 | 6.35 | 2 | 98 | 98 | 0.3 | 70° | VN/TH-OP, FD/CLY, CAL/W-R |
| | | | | | | | | | | Note: 328.5', Contact w/Bedded "Bud" |
| 328.5 | 332.5 | 4.0 | 3.7 | 1.75 | 9 | 93 | 44 | 2.4 | 25-65° | J, VN/TH, FD/CLY, CAL/R |
| 332.5 | 341 | 8.5 | 7.4 | 2.3 | 23 | 87 | 27 | 3.1 | 55-90° | J, VN/TH, FD/CLY, CAL/W-R |
| | | | | | | | | | | Note: 339'-341' Broken rubble |
| 341 | 351 | 10.0 | 6.1 | 2.0 | 16 | 61 | 20 | 3.3 | 40-90° | J, VN/TH, FD/CLY, CAL/R |
| | | | | | 4 | | | | 0-30° | VN/TH, FD/CLY, CAL/R |
| | | | | | | | | | | Note: 346'-351.5'/Broken rubble. |

GEOTECHNICAL LOG



PROJECT: ROSEBUD LOCATION: Dozer LOGGED BY: SAS

HOLE NO.: RL-241C DIP: Vertical CORE SIZE: NQ DATE: 9-6-91

| 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 |
| 351 | 360 | 9.0 | 8.3 | 5.05 | 20 | 92 | 56 | 2.4 | 30-90° | J, VN/TH, FD/CLY, ± CAL/W-R |
| | | | | | | | | | | Note: 359'-362', Br. rubble and crumbly core. |
| 360 | 370 | 10.0 | 9.2 | 6.25 | 17 | 92 | 63 | 2.4 | 40-90° | J, VN/TH, FD/CLY, ± CAL/W-R |
| | | | | | 5 | | | | 0-30° | J, VN/TH, FD/CLY, ± CAL/W-R |
| 370 | 380.5 | 10.5 | 9.6 | 7.7 | 18 | 91 | 73 | 2.1 | 40-90° | J, VN/TH, FD/CLY/W-R |
| | | | | | 2 | | | | 15-20° | VN/TH, FD/CLY/R |
| 380.5 | 391 | 10.5 | 9.2 | 4.8 | 28 | 88 | 46 | 3.0 | 45-90° | J, VN/TH, FD/CLY, ± CAL/PL-R |
| | | | | | | | | | | Note: Clay gouge 382.5'-383' |
| 391 | 399.5 | 8.5 | 7.25 | 2.8 | 15 | 85 | 33 | 3.0 | 35-90° | J, VN/TH, FD/CLY, ± CAL/R |
| | | | | | 7 | | | | 20-90° | VN/OP, FD/CAL, CLY/R |
| 399.5 | 409.5 | 10.0 | 9.85 | 6.5 | 22 | 99 | 65 | 2.2 | 40-90° | J, VN/TH, FD/CLY, ± CAL/R |
| 409.5 | 420 | 10.5 | 9.6 | 5.4 | 25 | 91 | 51 | 2.8 | 40-75° | J, VN/TH, FD/CLY, ± CAL/PL-W |
| | | | | | 2 | | | | 0-15° | VN/TH-OP, FD/CLY, ± CAL/W |
| 420 | 430 | 10.0 | 8.3 | 3.9 | 24 | 83 | 39 | 3.1 | 40-90° | J, VN/TH, FD/CLY, ± CAL/W-R |
| | | | | | 2 | | | | 0-20° | VN/TH, FD/CAL, CLY/W |
| | | | | | | | | | | Note: 421'-422' Clay gouge; 429'-430' Br. rubble |
| 430 | 437.5 | 7.5 | 7.2 | 0.45 | 24 | 96 | 6 | 3.3 | 50-90° | J, VN/TH, FD/CLY/W |
| | | | | | | | | | | Note: 434.5'-437.5' Mostly Broken Clayey Rubble |
| 437.5 | 445 | 7.5 | 6.6 | 2.6 | 18 | 88 | 35 | 3.2 | 35-65° | J, VN/TH, FD/CLY/W |
| | | | | | 3 | | | | 0-15° | VN/TH, FD/CLY/W-R |
| 445 | 455 | 10.0 | 9.6 | 6.2 | 21 | 96 | 62 | 2.2 | 30-80° | J, VN/TH, FD/CLY/R |
| 455 | 464 | 9.0 | 8.6 | 3.15 | 24 | 96 | 35 | 3.7 | 50-65° | VN/TH, FD/CLY/W-R |
| | | | | | 8 | | | | 0-25° | VN/TH, FD/CLY/R |
| 464 | 469.5 | 5.5 | 4.4 | 0.35 | 17 | 80 | 6 | 3.9 | 40-90° | VN/TH, FD/CLY/W-R |
| | | | | | | | | | | Note: 464.5'-466.5' clay gouge zone |
| 469.5 | 476.5 | 7.0 | 6.6 | 2.1 | 21 | 94 | 30 | 3.8 | 35-90° | VN/TH, FD/CLY/R |
| | | | | | 4 | | | | 0-30° | VN/TH, FD/CLY/R |
| | | | | | | | | | | Note: Scattered Br. rubble zones to 482.5' |
| 476.5 | 482.5 | 6.0 | 4.9 | 1.35 | 14 | 82 | 23 | 4.1 | 35-65° | VN/TH, FD/CLY/R |
| | | | | | 6 | | | | 0-25° | VN/TH, FD/CLY/R |
| | | | | | | | | | | Note: 482.5', Contact w/ "Dozer" F.G.T. |

GEOTECHNICAL LOG



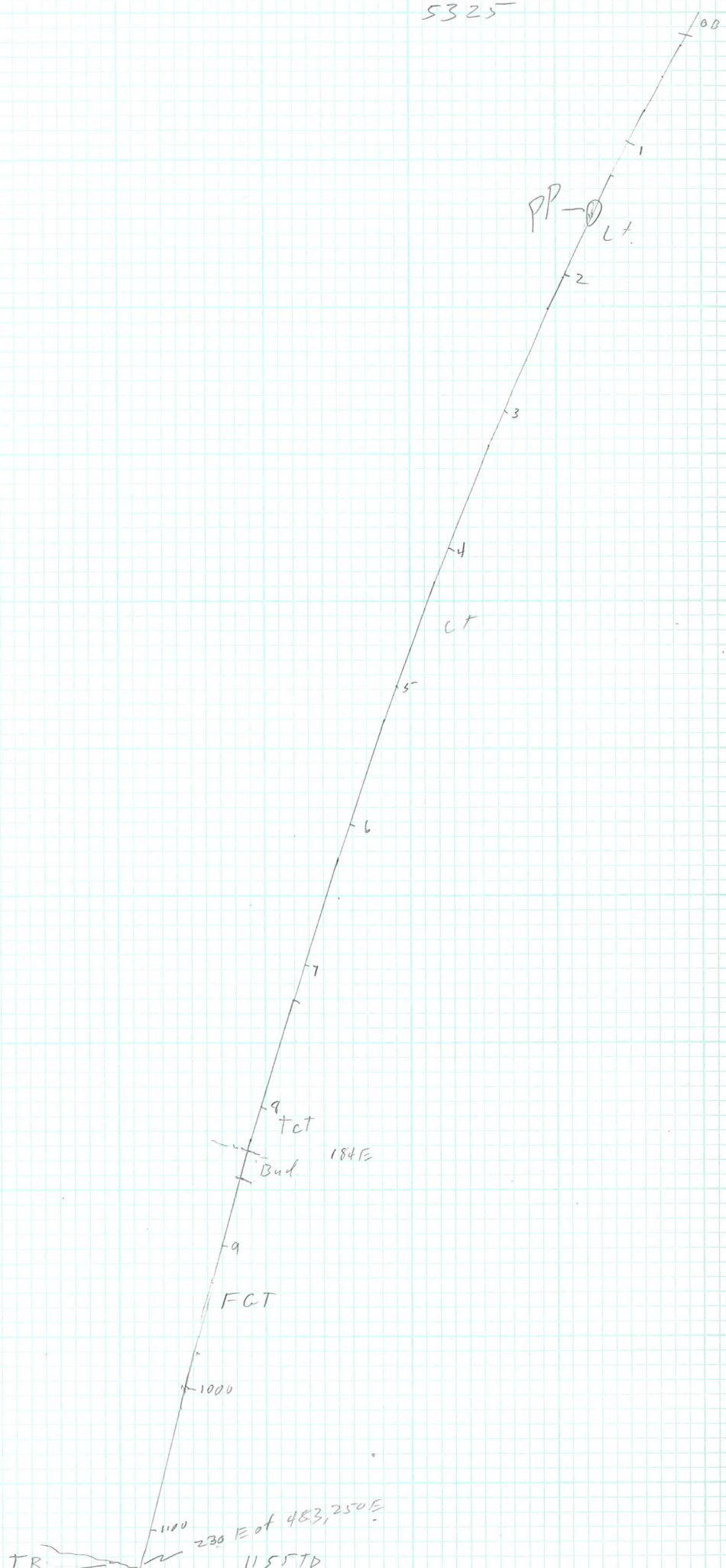
PROJECT: ROSEBUD LOCATION: Dazey LOGGED BY: SAS

HOLE NO.: RL-241C DIP: Vertical CORE SIZE: NQ DATE: 9-7-91

| 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 |
| 482.5 | 492 | 9.5 | 9.4 | 5.35 | 26 | 99 | 56 | 3.3 | 40-75° | VN/TH, FD/CLY, ±CAL/W-R |
| | | | | | 5 | | | | 0-35° | VN/TH, FD/CLY, ±CAL/W-R |
| 492 | 500 | 8.0 | 7.5 | 2.6 | 21 | 94 | 33 | 2.8 | 30-85° | VN/TH, FD/CLY, ±CAL/R |
| | | | | | | | | | | Note: Clay gouge zones at 497.5' and 499.5' |
| 500 | 510 | 10.0 | 10.0 | 7.1 | 23 | 100 | 71 | 2.3 | 20-65° | VN/TH, FD/CLY/R |
| | | | | | | | | | | Note: Clay gouge zones at 505.5' and 507.5' |
| 510 | 520.5 | 10.5 | 9.6 | 8.35 | 14 | 92 | 80 | 1.7 | 30-60° | VN/TH, FD/CLY/R |
| | | | | | 2 | | | | 0-15° | VN/TH, FD/CLY/W-R |
| 520.5 | 530.5 | 10.0 | 8.9 | 7.0 | 16 | 89 | 70 | 2.5 | 35-75° | VN/TH, FD/CLY, ±CAL/W-R |
| | | | | | 6 | | | | 0-30° | VN/TH, FD/CLY, ±CAL/W-R |
| | | | | | | | | | | Note: 521'-521.5' Broken Rubble |
| 530.5 | 541 | 10.5 | 9.6 | 6.45 | 16 | 92 | 61 | 2.0 | 35-85° | VN/TH, FD/CLY, ±CAL/W-R |
| | | | | | 3 | | | | 0-15° | VN/TH, FD/CLY/R |
| | T.D. 541' | | | | | | | | | Note: Small, clayey rubble zone at 538.5' |

5325

Rosebud
RL-141
1" = 100'
In plane of hole



RL241C

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

BONDAR-CLEGG

# Geochemical Lab Report

OCT 2 1991

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11960.4 ( COMPLETE )

REFERENCE INFO: RL241C 210-541

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 | Au | Gold | 54 | 0.002 OPT | | Fire Assay |
| 2 | Au DUP | Gold Duplicate | 6 | 0.002 OPT | | Fire Assay |
| 3 | AG DUP | AG DUPLICATE | 4 | 0.02 OPT | | Fire Assay |
| 4 | Ag | Silver | 54 | 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 | 52 | 2 | -150 | 52 | CRUSH,PULVERIZE -150 | 52 |
| P | PREPARED PULP | 2 | 4 | AS REC'D | 2 | AS RECEIVED, NO SP | 2 |

NOTES: # indicates ERRATIC RESULTS

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

INVOICE TO: MR. TIM KUHL

Rickey L Ornto

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

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

# Geochemical Lab Report

DATE PRINTED: 26-SEP-91

REPORT: R91-11960.4 ( COMPLETE )

PROJECT: ROSEBUD



| STANDARD NAME | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | AU Dup OPT |
|---|---|---|---|---|---|---|
| AU ASSAY STD | | 0.150 | - | - | - | - |
| Number of Analyses | | 1 | - | - | - | - |
| Mean Value | | 0.1500 | - | - | - | - |
| Standard Deviation | | - | - | - | - | - |
| Accepted Value | | 0.150 | - | - | - | - |
| ANALYTICAL BLANK | | <0.002 | - | - | - | - |
| Number of Analyses | | 1 | - | - | - | - |
| Mean Value | | 0.0010 | - | - | - | - |
| Standard Deviation | | - | - | - | - | - |
| Accepted Value | | 0.002 | - | - | - | - |
| GEO TRACE STD1(1989) | | - | - | - | 0.95 | - |
| GEO TRACE STD1(1989) | | - | - | - | 1.00 | - |
| Number of Analyses | | - | - | - | 2 | - |
| Mean Value | | - | - | - | 0.975 | - |
| Standard Deviation | | - | - | - | 0.0350 | - |
| Accepted Value | | - | - | - | 1.05 | - |
| AG ASSAY | | - | - | - | 3.05 | - |
| AG ASSAY | | - | - | - | 3.00 | - |
| Number of Analyses | | - | - | - | 2 | - |
| Mean Value | | - | - | - | 3.030 | - |
| Standard Deviation | | - | - | - | 0.0348 | - |
| Accepted Value | | - | - | - | 3.03 | - |
| Number of Analyses | | - | - | - | - | - |
| Mean Value | | - | - | - | - | - |
| Standard Deviation | | - | - | - | - | - |
| Accepted Value | | 0.184 | - | - | - | - |

Bondar-Clegg, Inc.
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BONDAR-CLEGG

RL241

SEP 30 1991

# Geochemical Lab Report

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: R91-11918.4 ( COMPLETE )

REFERENCE INFO: RL241C 15.5 TO 21D

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 | 40 | 0.002 OPT | | Fire Assay |
| 2 | Au DUP Gold Duplicate | 6 | 0.002 OPT | | Fire Assay |
| 3 | AG DUP AG DUPLICATE | 3 | 0.02 OPT | | Fire Assay |
| 4 | Ag Silver | 40 | 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 | 39 | 2 -150 | 39 | SAMPLE PREP <10LBS | 39 |
| P PREPARED PULP | 1 | 4 AS REC'D | 1 | AS RECEIVED, NO SP | 1 |

NOTES: # indicates ERRATIC RESULTS

REMARKS: #ERRATIC RESULTS
K GAMMON

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

INVOICE TO: MR. NATE BREWER
MR. TIM KUHL

Kirby L Santa

Bondar-Clegg, Inc.
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702 (359-9330)

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

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| STANDARD NAME | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | AU Dup OPT |
|---|---|---|---|---|---|---|
| AU ASSAY STD | | 0.167 | - | - | - | - |
| Number of Analyses | | 1 | - | - | - | - |
| Mean Value | | 0.1670 | - | - | - | - |
| Standard Deviation | | - | - | - | - | - |
| Accepted Value | | 0.150 | - | - | - | - |
| ANALYTICAL BLANK | | <0.002 | - | - | - | - |
| Number of Analyses | | 1 | - | - | - | - |
| Mean Value | | 0.0010 | - | - | - | - |
| Standard Deviation | | - | - | - | - | - |
| Accepted Value | | 0.002 | - | - | - | - |
| GEO TRACE STD1(1989) | | - | - | - | 0.97 | - |
| GEO TRACE STD1(1989) | | - | - | - | 0.94 | - |
| Number of Analyses | | - | - | - | 2 | - |
| Mean Value | | - | - | - | 0.958 | - |
| Standard Deviation | | - | - | - | 0.0209 | - |
| Accepted Value | | - | - | - | 1.05 | - |
| AG ASSAY | | - | - | - | 3.09 | - |
| AG ASSAY | | - | - | - | 3.00 | - |
| Number of Analyses | | - | - | - | 2 | - |
| Mean Value | | - | - | - | 3.042 | - |
| Standard Deviation | | - | - | - | 0.0659 | - |
| Accepted Value | | - | - | - | 3.03 | - |

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| SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | AU Dup OPT |
|---|---|---|---|---|---|---|
| D2 RL241C 15.5 21 | | <0.002 | | | 0.03 | |
| D2 RL241C 21 26 | | <0.002 | | | 0.03 | |
| D2 RL241C 26 31 | | <0.002 | | | 0.06 | |
| D2 RL241C 31 36 | | 0.010# | 0.005 | | 0.06 | 0.005 |
| D2 RL241C 36 41 | | <0.002 | | | 0.04 | |
| D2 RL241C 41 46 | | <0.002 | | | 0.06 | |
| D2 RL241C 46 49 | | <0.002 | | | 0.07 | |
| D2 RL241C 49 54 | | <0.002 | | | <0.02 | |
| D2 RL241C 54 59 | | <0.002 | <0.002 | 0.09 | 0.09 | |
| D2 RL241C 59 64 | | <0.002 | | | 0.05 | |
| D2 RL241C 64 69.5 | | <0.002 | | | 0.07 | |
| D2 RL241C 69.5 75 | | <0.002 | | | 0.06 | |
| D2 RL241C 75 80 | | <0.002 | | | 0.04 | |
| D2 RL241C 80 85 | | <0.002 | | | 0.05 | |
| D2 RL241C 85 90 | | <0.002 | | | 0.03 | |
| D2 RL241C 90 96 | | <0.002 | | | 0.05 | |
| D2 RL241C 96 101 | | <0.002 | | | 0.05 | |
| D2 RL241C 101 106 | | <0.002 | | | 0.04 | |
| D2 RL241C 111 117 | | 0.004 | 0.005 | | 0.07 | |
| D2 RL241C 117 122 | | <0.002 | | | 0.07 | |
| P4 BA 102 | | <0.002 | | | <0.02 | |
| D2 RL241C 122 127 | | <0.002 | | | 0.06 | |
| D2 RL241C 127 132 | | 0.004 | | | 0.06 | |
| D2 RL241C 132 137 | | 0.012# | 0.004 | 0.09 | 0.06 | |
| D2 RL241C 137 142 | | 0.005 | | | 0.08 | |
| D2 RL241C 142 147 | | 0.002 | | | 0.04 | |
| D2 RL241C 147 152 | | 0.003 | | 0.07 | 0.06 | |
| D2 RL241C 152 157 | | <0.002 | | | 0.09 | |
| D2 RL241C 157 161 | | 0.002 | | | 0.07 | |
| D2 RL241C 161 164 | | <0.002 | | | 0.06 | |
| D2 RL241C 164 167 | | 0.009 | 0.010 | | 0.13 | |
| D2 RL241C 167 173.5 | | 0.006 | | | 0.11 | |
| D2 RL241C 173.5 178.2 | | 0.018 | | | 0.11 | |
| D2 RL241C 178.2 183 | | 0.097 | | | 0.28 | |
| D2 RL241C 183 188 | | 0.098 | | | 0.31 | |
| D2 RL241C 188 193 | | 0.048 | | | 0.20 | |
| D2 RL241C 193 197 | | 0.057 | | | 0.46 | |
| D2 RL241C 197 201 | | 0.020 | | | 0.19 | |
| D2 RL241C 201 205 | | 0.016 | | | 0.12 | |
| D2 RL241C 205 210 | | 0.021 | 0.021 | | 0.08 | |

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# Geochemical Lab Report

DATE PRINTED: 26-SEP-91

REPORT: R91-11960.4 ( COMPLETE )

PROJECT: ROSEBUD



| SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | AU Dup OPT |
|---|---|---|---|---|---|---|
| D2 RL241C 210 215 | | 0.017# | 0.005 | <0.02 | <0.02 | 0.006 |
| D2 RL241C 215 223 | | 0.002 | | | <0.02 | |
| D2 RL241C 223 227 | | 0.006 | | | <0.02 | |
| D2 RL241C 227 232 | | <0.002 | | | <0.02 | |
| D2 RL241C 232 237 | | <0.002 | | | <0.02 | |
| D2 RL241C 237 244 | | <0.002 | | | <0.02 | |
| D2 RL241C 244 249 | | <0.002 | | | <0.02 | |
| D2 RL241C 249 254 | | 0.004 | | | <0.02 | |
| D2 RL241C 254 259 | | <0.002 | | | <0.02 | |
| D2 RL241C 259 264 | | <0.002 | | | <0.02 | |
| D2 RL241C 264 269 | | <0.002 | <0.002 | | <0.02 | |
| D2 RL241C 269 273 | | <0.002 | | | <0.02 | |
| D2 RL241C 273 278 | | 0.004 | | | <0.02 | |
| D2 RL241C 278 283 | | 0.002 | | | <0.02 | |
| D2 RL241C 283 288 | | 0.005 | | | <0.02 | |
| D2 RL241C 288 293 | | <0.002 | | | <0.02 | |
| D2 RL241C 293 298 | | 0.004 | | | <0.02 | |
| D2 RL241C 298 303 | | 0.022 | | | 0.05 | |
| D2 RL241C 303 308 | | <0.002 | | <0.02 | <0.02 | |
| D2 RL241C 308 313 | | 0.007 | | | 0.04 | |
| P4 BA 199 | | 0.029 | | | 0.22 | |
| D2 RL241C 313 318 | | <0.002 | | | <0.02 | |
| D2 RL241C 318 323 | | 0.003 | 0.003 | | <0.02 | |
| D2 RL241C 323 328.5 | | <0.002 | | | <0.02 | |
| D2 RL241C 328.5 333 | | <0.002 | | | <0.02 | |
| D2 RL241C 333 338 | | <0.002 | | | <0.02 | |
| D2 RL241C 338 343 | | <0.002 | | | <0.02 | |
| D2 RL241C 343 351 | | <0.002 | | | <0.02 | |
| D2 RL241C 394 398 | | <0.002 | | | <0.02 | |
| D2 RL241C 429 434 | | 0.006 | | | <0.02 | |
| D2 RL241C 434 439 | | <0.002 | | | <0.02 | |
| D2 RL241C 439 444 | | <0.002 | | | <0.02 | |
| D2 RL241C 444 449 | | <0.002 | <0.002 | | <0.02 | |
| D2 RL241C 449 454 | | <0.002 | | | <0.02 | |
| D2 RL241C 454 459 | | 0.003 | | | <0.02 | |
| D2 RL241C 459 464 | | <0.002 | | | <0.02 | |
| D2 RL241C 464 469 | | <0.002 | | | <0.02 | |
| D2 RL241C 469 474 | | <0.002 | | 0.14 | 0.17 | |
| D2 RL241C 474 478 | | 0.002 | | | 0.05 | |
| D2 RL241C 478 482.5 | | <0.002 | | | <0.02 | |

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|---|---|---|---|---|---|---|
| D2 RL241C 482.5 487 | | <0.002 | | | <0.02 | |
| P4 BA 200 | | <0.002 | | | <0.02 | |
| D2 RL241C 487 492 | | <0.002 | | | <0.02 | |
| D2 RL241C 492 496 | | <0.002 | <0.002 | | <0.02 | |
| D2 RL241C 496 500 | | <0.002 | | | 0.04 | |
| D2 RL241C 500 505 | | <0.002 | | | <0.02 | |
| D2 RL241C 505 510 | | <0.002 | | | <0.02 | |
| D2 RL241C 510 515 | | <0.002 | | | <0.02 | |
| D2 RL241C 515 519 | | <0.002 | | | <0.02 | |
| D2 RL241C 519 523 | | <0.002 | | | <0.02 | |
| D2 RL241C 523 528 | | <0.002 | | <0.02 | <0.02 | |
| D2 RL241C 528 533 | | <0.002 | | | <0.02 | |
| D2 RL241C 533 537 | | <0.002 | | | <0.02 | |
| D2 RL241C 537 541 | | <0.002 | 0.003 | | <0.02 | |

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|---|---|---|---|---|---|---|
| RL241C 54 59 | | <0.002 | <0.002 | 0.09 | 0.09 | |
| Duplicate | | <0.002 | | | 0.09 | |
| RL241C 111 117 | | 0.004 | 0.005 | | 0.07 | |
| Duplicate | | 0.005 | | | | |
| RL241C 132 137 | | 0.012# | 0.004 | 0.09 | 0.06 | |
| Prep Duplicate | | 0.004 | | | 0.09 | |
| RL241C 147 152 | | 0.003 | | 0.07 | 0.06 | |
| Duplicate | | | | | 0.07 | |
| RL241C 164 167 | | 0.009 | 0.010 | | 0.13 | |
| Duplicate | | 0.010 | | | | |
| RL241C 205 210 | | 0.021 | 0.021 | | 0.08 | |
| Duplicate | | 0.021 | | | | |

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| SAMPLE NUMBER | ELEMENT UNITS | Au OPT | Au DUP OPT | AG DUP OPT | Ag OPT | AU Dup OPT |
|---|---|---|---|---|---|---|
| RL241C 210 215 | | 0.0174 | 0.005 | <0.02 | <0.02 | 0.006 |
| Duplicate | | 0.005 | | | 0.03 | |
| Prep Duplicate | | 0.006 | | | <0.02 | |
| RL241C 264 269 | | <0.002 | <0.002 | | <0.02 | |
| Duplicate | | <0.002 | | | | |
| RL241C 303 308 | | <0.002 | | <0.02 | <0.02 | |
| Duplicate | | | | | <0.02 | |
| RL241C 318 323 | | 0.003 | 0.003 | | <0.02 | |
| Duplicate | | 0.003 | | | | |
| RL241C 444 449 | | <0.002 | <0.002 | | <0.02 | |
| Duplicate | | <0.002 | | | | |
| RL241C 469 474 | | <0.002 | | 0.14 | 0.17 | |
| Duplicate | | | | | 0.14 | |
| RL241C 492 496 | | <0.002 | <0.002 | | <0.02 | |
| Duplicate | | <0.002 | | | | |
| RL241C 523 528 | | <0.002 | | <0.02 | <0.02 | |
| Prep Duplicate | | <0.002 | | | <0.02 | |
| RL241C 537 541 | | <0.002 | 0.003 | | <0.02 | |
| Duplicate | | 0.003 | | | | |
| Prep Duplicate | | <0.002 | | | <0.02 | |
| Duplicate | | | | | <0.02 | |

# Chemex Labs Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 West Glendale Ave., Suite 7, Sparks,
Nevada, U.S.A. 89431
PHONE: 702-356-5395


To: LAC MINERALS U.S.A. INC

1395 GREG ST., STE 107
SPARKS, NEVADA
89431

Project : ROSEBUD
Comments:


Certificate Date: 29-SEP-91
Invoice No. : I9122189
P.O. Number :

## CERTIFICATE OF ANALYSIS A9122189

| SAMPLE DESCRIPTION | PREP CODE | | Au oz/T |
|---|---|---|---|
| RL230 545-550 | 208 | 294 | 0.001 |
| RL230 595-600 | 208 | 294 | 0.004 |
| RL231 045-050 | 208 | 294 | < 0.001 |
| RL231 095-100 | 208 | 294 | < 0.001 |
| RL231 145-150 | 208 | 294 | < 0.001 |
| RL231 195-200 | 208 | 294 | < 0.001 |
| RL231 250-255 | 208 | 294 | < 0.001 |
| RL231 300-305 | 208 | 294 | < 0.001 |
| RL231 350-355 | 208 | 294 | < 0.001 |
| RL231 400-405 | 208 | 294 | < 0.001 |
| RL231 450-455 | 208 | 294 | < 0.001 |
| RL232 045-050 | 208 | 294 | < 0.001 |
| RL232 095-100 | 208 | 294 | < 0.001 |
| RL232 145-150 | 208 | 294 | < 0.001 |
| RL232 195-200 | 208 | 294 | < 0.001 |
| RL232 245-250 | 208 | 294 | < 0.001 |
| RL232 295-300 | 208 | 294 | < 0.001 |
| RL232 345-350 | 208 | 294 | < 0.001 |
| RL232 395-400 | 208 | 294 | < 0.001 |
| RL232 445-450 | 208 | 294 | < 0.001 |
| RL232 495-500 | 208 | 294 | < 0.001 |
| RL232 545-550 | 208 | 294 | 0.005 |
| RL241C 259-264 | 208 | 294 | < 0.001 |
| RL241C 308-313 | 208 | 294 | 0.012 |
| RL241C 434-439 | 208 | 294 | < 0.001 |
| RL241C 482.5-487 | 208 | 294 | < 0.001 |
| RL241C 528-533 | 208 | 294 | < 0.001 |
| RL242C 669-674 | 208 | 294 | 0.006 |
| RL243C 720-723 | 208 | 294 | 0.173 |
| RL243C 768-773 | 208 | 294 | 0.005 |

CERTIFICATION: _____

# 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

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SPARKS, NEVADA
89431

Project : ROSEBUD
Comments: ATTN: TIM KUHL

Page Number : 1
Total Pages : 1
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: Nardia M Adam