66001366

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-13C |
| AUTHOR | K. Tullar; K. Kramer; N. Brewer; R. Grandi- |
| DATE OF DOC(S) | 1990 |
| 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; East Dreamland<br>Lac Minerals (USA), Inc. Eklund drilling |
| COMMODITY<br>If not obvious | gold silver |
| NOTES | Drill log; geology; assay; total depth 660'<br>handwritten notes<br><br>13p. |

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
ROSEBUD

RL-136
East Dreamland

6600 1366 4010

6600136

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

## DRILL LOG SUMMARY SHEET

PROJECT Rosebud

HOLE NUMBER RL-136 TOTAL DEPTH 660' LOGGED BY KNT / KLK

Date started 10-08-90

Date completed 10-10-90

Initial bearing N45W

Initial inclination -45°

Elevation 5930.7

Collar coordinates:

N 2205890.0

E 480992.9

4/28/99 KAA changed to 5390.7'

Contractor: EKLUND

Drill Type: MPD-1000 (Buggy

Hole Size: 4 3/4 hammer 4 1/2" TRICONE

Drilling Conditions:

Footage: Wet / Dry Dry to 90'; Wet to 660'

Comments: Water table @ 90'; hole consistently produced 30 gpm measured.

DOWN HOLE SURVEY INFORMATION

| FROM | TO | SURVEY POINT | INCLINATION | BEARING | X (Northing) | Y (Easting) | Z (Elevation) |
|---|---|---|---|---|---|---|---|
| 0 | 50 | | -45 | N 45W | | | |
| 50 | 150 | | -47 | " | | | |
| 150 | 250 | | -49 | " | | | |
| 250 | 350 | | -51 | " | | | |
| 350 | 450 | | -53 | " | | | |
| 450 | 550 | | -55 | " | | | |
| 550 | 650 | | -57 | " | | | |
| 650 | 660 | | -57 | | | | |
| | | | | | | | |

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

DRILL HOLE RL-136

Page 1 of 7

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

25-660 CT or LBT

LOGGED BY KNT

| | LITH. | ALT. | % ARG. ALT. W | M | S | % SIL'N W | M | S | COLOR | % FeOx W | M | S | % SULF. | COMMENTS | Au | Ag | CHECK | % WASH RECOV. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | red-brown MAUVE | | | | | 0-25 Qal Overburden gravels | < | < | | |
| 05 | | Ca Ca | | | | | | | " | | | | | stg Calicle | < | < | | |
| 10 | | | | | | | | | " | | | | | | < | .11 | | |
| 15 | | | | | | | | | " | | | | | | < | < | | |
| 20 | | | | | | | | | " | | | | | | < | < | | |
| 25 | | OX Blc | | | | | | | ORANGE flesh | | | | | 25-60 wht - orange, flesh, oxidized to mod Limonite, mod stg | .005 | < | | |
| 30 | | OX Blc | | | | | | | lt yellow | | | | | | .006 | < | | |
| 35 | | OX Blc | | | | | | | BROWN-ORANGE | | | | | | .002 | < | | |
| 40 | | OX Blc | | | | | | | " | | | | | | < | < | | |
| 45 | | OX Blc | | | | | | | " | | | | | | < | < | | |
| 50 | | OX Blc | | | | | | | " | | | | | | < | < | | |
| 55 | | | | | | | | | purple gry | | | | | 60-110 purple-gry, Aphanitic w/ local coarse qtz phenocrysts intrusive??? fresh | < | < | | |
| 60 | | | | | | | | | " | | | | | | < | < | | |
| 65 | | | | | | | | | " | | | | | | < | < | | |
| 70 | | | | | | | | | " | | | | | | < | < | | |
| 75 | | | | | | | | | " | | | | | | < | < | | |
| 80 | | | | | | | | | " | | | | | | < | < | | |
| 85 | | | | | | | | | " | | | | | | < | < | | |
| 90 | | | | | | | | | " | | | | | H2O TABLE @ 90' | < | .10 | | |
| 95 | | | | | | | | | " | | | | | | < | .13 | | |
| 100 | | | | | | | | | " | | | | | yellow, clay phenos | < | < | | |

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-136



LOGGED BY KNT

| | LITH. | ALT. | % ARG. ALT. W | M | S | % SIL'N W | M | S | COLOR | % FeOx W | M | S | % SULF. | COMMENTS | Au | Ag | CHECK | % WASH RECOV. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | purple gry | | | | | Fresh Fault Ti | <.001 | <.2 | | |
| 105 | | | | | | | | | " | | | | | | <.001 | <.2 | | |
| 10 | | | | | | | | | | | | | | | | | | |
| | | Qx + | | | | | | | Brown gry | | | | | 110–120 Brown gry, oxidized, wk limonitic FGT | <.001 | <.2 | | |
| 15 | | Qy ++ | | | | | | | ↓ | | | | | + sulfides | <.001 | <.2 | | |
| 20 | | ++ | | | | | | | qtz-lime grn | | | | | 120–135 grn-lime grn FGT wk arg. | <.001 | <.2 | | |
| 25 | | ++ | | | | | | | ↓ | | | | | | <.001 | <.2 | | |
| 30 | | ++ | | | | | | | ↓ | | | | | | <.001 | <.2 | | |
| 35 | | ++ | | | | | | | mixed yellow, flesh, grn | | | | | Noon tripped back Hammer Broke Resume 1PM 135–160 mixed, yellow, flesh, grn, FGT | .01 | .19 | | |
| 40 | | ++ | | | | | | | ↓ | | | | +5% | | .001 | <.2 | | |
| 45 | | ++ | | | | | | | ↓ | | | | 1-2% | | <.001 | <.2 | | |
| 50 | | ++ | | | | | | | ↓ | | | | " | | .001 | <.2 | | |
| 55 | | | | | | | | | ↓ | | | | +5% | Clay 50% Qtz sulfid veining | .002 | <.2 | | |
| 60 | | XX++ | | | | | | | lt gry wk lime grn. | | | | | 160–175 lt gray, wk lim grn, w/ mod drusy qtz | .009 | .16 | | |
| 65 | | +++++ | | | | | | | ↓ | | | | | shut down @ 1:30 Hrs Run 4 Hrs. <.5 gpm Resume drilling 3PM | .001 | <.2 | | |
| 70 | | +++++ | | | | | | | ↓ | | | | | | <.001 | <.2 | | |
| 75 | | +++++ | | | | | | | Flesh | | | | | Bucket Test ±13 gpm 175–195 flesh, blc FGT wk-mod Si | <.001 | <.2 | | |
| 80 | | +++++ | | | | | | | ↓ | | | | | | <.001 | <.2 | | |
| 85 | | +++++ | | | | | | | ↓ | | | | | | .001 | .26 | | |
| 90 | | +++++ | | | | | | | ↓ | | | | | | .007 | .21 | | |
| 95 | | +++++ | | | | | | | ↓ | | | | | | .007 | .28 | | |
| 200 | | +++++ | | | | | | | lt gry wk flesh | | | | | 195–220 Fault | .002 | <.2 | | |
| | | | | | | | | | | | | | | 200' @ 3PM | | | | |

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

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

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

DRILL HOLE RL-136

Page 3 of 7

LOGGED BY KNT

| | LITH. | ALT. | % ARG. ALT. W | M | S | % SIL'N W | M | S | COLOR | % FeOx W | M | S | % SULF. | COMMENTS | Au | Ag | CHECK |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | + + + + + | | | | | | | wht-ltgry | | | | | 195-220, FAULT - pervasively silicified; brecciated w/ fine dk gray sulfides + pyrite | < | .16 | |
| 205 | | + + + + + | | | | | | | " | | | | | w/ chalcedonic silica; weakly oxidized fractures; barite vns w/ sm druzy qtz sulfide vns | .001 | < | |
| 10 | | + + + + + | | | | | | | " | | | | | Barite VN w/ cubic barite to ½" rod | < | < | |
| 15 | | + + + + + | | | | | | | " | | | | | | < | < | |
| 20 | | + + + + + | | | | | | | " | | | | | Bucket Test @ 220' 20 gpm $H_2O$ | < | < | |
| | | xc XK | | | | | | | buff w/ tan ± gray | | | | 3-4% diss FVN py+ | 220-325 FINE GRAINED TUFF - lt buff-tan to, rod | .001 | .21 | |
| 25 | | | | | | | | | " | | | | poss local marcasite | gray, bleached, pervasively brecciated; intermittently silicified; wkly locally | < | < | |
| 30 | | | | | | | | | " | | | | | argillically clay alt wedk to mod druzy qtz sulfide vns local fine hairline qtz rod | < | < | |
| 35 | | | | | | | | | " | | | | | stockwork; red brown chalcedonic seams | < | < | |
| 40 | | | | | | | | | " | | | | | | < | .15 | |
| 45 | | | | | | | | | " | | | | | rod | .001 | < | |
| 250 | | | | | | | | | " | | | | | | .002 | < | |
| 55 | | | | | | | | | " | | | | | rod | | | |
| 60 | | | | | | | | | " | | | | | Bucket Test @ 255' = 20gpm | .001 | < | |
| 65 | | | | | | | | | " | | | | | Si flooded + $Qtz_3$ sulfide vns; rod | < | < | |
| 70 | | | | | | | | | " | | | | | Druzy $Qtz_3$ | < | < | |
| 75 | | | | | | | | | " | | | | | rod | < | < | |
| 80 | | | | | | | | | " | | | | | | .001 | < | |
| 85 | | | | | | | | | " | | | | | rod | .001 | < | |
| 90 | | | | | | | | | " | | | | | X-cutting $qtz_3$ - sulfide vns to ½' | .003 | < | |
| 95 | | XK + + + + | | | | | | | " | | | | | fault zone 290- minor w/ strong stkwk qtz rod | .005 | .11 | |
| 300 | | + + + + + | | | | | | | " | | | | | | .016 | < | |
| | | | | | | | | | | | | | | Bucket Test @ 300' 30 gpm 300' @ 4:45 | | | |

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

FINE-GRAINED TUFF
LITHIC LAPILLI TUFF

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

DRILL HOLE RL-136

Page 4 of 7

LOGGED BY KLK

| | LITH. | ALT. | % ARG. ALT. W | M | S | % SIL'N W | M | S | COLOR | % FeOx W | M | S | % SULF. | COMMENTS 220-325 | Au | Ag | CHECK | % WASH RECOV. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Yc Xk X | | | | | | | white buff tan+ gray | | | | 3-4% diss +VN | FGT - CONTINUED - Same description @ previous page | .004 | < | | |
| 305 | | | | | | | | | | | | | py | w/ perv. Δ w/ inner clay alt zones w/in qtz. stockworking · silicification ↓ w/ depth | .002 | < | | |
| 310 | | | | | | | | | | | | | | brecciation ↓ w/ depth | .001 | .11 | | |
| 315 | | | | | | | | | | | | | | | .002 | < | | |
| 320 | | | | | | | | | | | | | | | .005 | < | | |
| 325 | | | | | | | | | v. lt. green | | | | 1-2% diss +VN | 325-660 FINE GRAINED TUFF · CT vs. UBT | .003 | < | | |
| 330 | | | | | | | | | | | | | py | pervasive wk bleaching ± wk glauconite alt. weak argillic clay alt weakly locally tectonically brecciated giving LLT appearance weak local druzy qtz sulfide | .001 | < | | |
| 335 | | | | | | | | | tan+ green | | | | | | < | < | | |
| 340 | | | | | | | | | | | | | | VNS. becoming granular in texture w/ depth. | < | < | | |
| 345 | | | | | | | | | | | | | | | < | < | | |
| 350 | | | | | | | | | lt+v. lt. green | | | | | | < | < | | |
| 355 | | | | | | | | | | | | | | | < | .14 | | |
| 360 | | | | | | | | | | | | | | | < | .19 | | |
| 365 | | | | | | | | | | | | | | | .002 | .33 | | |
| 370 | | | | | | | | | | | | | | more granular | .003 | .22 | | |
| 375 | | | | | | | | | | | | | | texture - poss Lithic Lapilli tuff component | .008 | .29 | | |
| 380 | | | | | | | | | | | | | | | .005 | .10 | | |
| 385 | | | | | | | | | | | | | | | .004 | .28 | | |
| 390 | | XX | | | | | | | | | | | | MOD. SILICIFIED primarily FGT ↑bl | .005 | .13 | | |
| 395 | | | | | | | | | | | | | | | .005 | .12 | | |
| 400 | | | | | | | | | | | | | | | .003 | .19 | | |

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-136



LOGGED BY KLK

| | LITH. | ALT. | % ARG. ALT. W | M | S | % SIL'N W | M | S | COLOR | % FeOx W | M | S | % SULF. | COMMENTS | Au | Ag | CHECK | % WASH RECOV. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | XK HH | | | | | | | LT. green | | | | 1-2% diss fvn py | FGT - (a) above w/ more (fragmental) LLT component grades from lt green into | .004 | .10 | | |
| 405 | | | | | | | | | | | | | | mixed green + tan into tannish flesh. wk local qtz encapsulated sulfide veins | .011 | .27 | | |
| 410 | | | | | | | | | | | | | | | | | | |
| 415 | | | | | | | | | | | | | | 400-450 mod % of fragmental comp. | .006 | .27 | | |
| 420 | | | | | | | | | | | | | | LLT vs. volc. bxa. clast are bl/wht w/ green to flesh matrix. | .012 | .28 | | |
| 425 | | HH | | | | | | | | | | | | | .008 | .28 | | |
| 430 | | HH | | | | | | | | | | | | | .009 | .12 | | |
| 435 | | XX | | | | | | | | | | | | | .007 | .13 | | |
| 440 | | | | | | | | | flesh + green | | | | | | .004 | .12 | | |
| 445 | | XK HH | | | | | | | | | | | | | .002 | < | | |
| 450 | | | | | | | | | | | | | | | < | < | | |
| 455 | | X | | | | | | | | | | | | | .001 | < | | |
| 460 | | | | | | | | | | | | | | | .004 | .22 | | |
| 465 | | | | | | | | | Flesh w/ WK green | | | | | | < | .13 | | |
| 470 | | | | | | | | | | | | | | | < | .11 | | |
| 475 | | | | | | | | | | | | | | 475-500 decreased glauconite alt w/ | < | < | | |
| 480 | | | | | | | | | | | | | | ↑ flesh (bl?) alt, more granular, less fragmental w/ depth | < | < | | |
| 485 | | | | | | | | | | | | | | | < | .16 | | |
| 490 | | | | | | | | | | | | | | | < | < | | |
| 495 | | | | | | | | | | | | | | finely speckled w/ yellow oxide? | < | < | | |
| 500 | | | | | | | | | | | | | | | < | < | | |
| | | | | | | | | | | | | | | | | | | |

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-136



LOGGED BY KLK

| | LITH. | ALT. | % ARG. ALT. W | M | S | % SIL'N W | M | S | COLOR | % FeOx W | M | S | % SULF. | COMMENTS | Au | Ag | CHECK | % WASH RECOV. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | XK | | | | | | | buff; flesh | | | | 1-2% diss fvn py | 500-660 LBT vs. CHOC. TF fine grained mod bl. w/ hint | < | < | | |
| 505 | | | | | | | | | | | | | | green glauconite(?) alt weak fracturing w/ red orange oxide fill | < | < | | |
| 510 | | | | | | | | | | | | | | 500-535 pervasive pinkish flesh color alteration intermittent lt green clay | < | < | | |
| 515 | | | | | | | | | | | | | | (duck butter) filling vesicles | < | < | | |
| 520 | | | | | | | | | | | | | | | .001 | < | | |
| 525 | | XX | | | | | | | | | | | | 525-535 mod brecciated; wk silicification | < | < | | |
| 530 | | XX | | | | | | | | | | | | | < | < | | |
| 535 | | | | | | | | | pinkish tan; greenish tan | | | | | 540-500 decreased bleaching; clay alt intermittent lithic texture | < | < | | |
| 540 | | | | | | | | | | | | | | | < | < | | |
| 545 | | XK | | | | | | | | | | | | | < | < | | |
| 550 | | | | | | | | | | | | | | | < | < | | |
| 555 | | | | | | | | | | | | | | | < | < | | |
| 560 | | | | | | | | | | | | | | | < | < | | |
| 565 | | | | | | | | | lt. hint green-gray tan | | | | | | < | < | | |
| 570 | | | | | | | | | | | | | | | < | < | | |
| 575 | | | | | | | | | | | | | | | < | < | | |
| 580 | | | | | | | | | | | | | | | < | < | | |
| 585 | | | | | | | | | grayish purple | | | | | 580-590 relatively fresh - unaltered purple LBT(?) | < | < | | |
| 590 | | | | | | | | | | | | | | | < | < | | |
| 595 | | | | | | | | | pinkish tan | | | | | 590-600 wk bl to tan | < | < | | |
| 600 | | | | | | | | | | | | | | | < | < | | |

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FINE-GRAINED TUFF
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Page 7 of 7

LOGGED BY KLK

| | LITH. | ALT. | % ARG. ALT. W | M | S | % SIL'N W | M | S | COLOR | % FeOx W | M | S | % SULF. | COMMENTS | Au | Ag | CHECK | % WASH RECOV. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | XK | | | | | | | flesh + H green | | | | 1-2% diss + VN | 600 - 660 FGT continued CT-VS LBT weakly bleached | < | < | | |
| 605 | | XK. | | | | | | | | | | | PY | local clay alt. phenos. weak flesh coloration w/ very weak hint green | < | < | | |
| 610 | | | | | | | | | | | | | | alteration (glauconite?) V. weak fine grn stkwork | < | < | | |
| 615 | | | | | | | | | | | | | | | < | < | | |
| 620 | | | | | | | | | | | | | | | < | < | | |
| 625 | | | | | | | | | | | | | | | < | < | | |
| 630 | | | | | | | | | | | | | | | < | < | | |
| 635 | | | | | | | | | | | | | | | < | < | | |
| 640 | | | | | | | | | | | | | | | < | < | | |
| 645 | | | | | | | | | | | | | | | < | < | | |
| 650 | | | | | | | | | | | | | | | < | < | | |
| 655 | | | | | | | | | | | | | | | < | < | | |
| 660 | | | | | | | | | | | | | | T.D | < | < | | |
| 665 | | | | | | | | | | | | | | | | | | |
| 670 | | | | | | | | | | | | | | | | | | |
| 675 | | | | | | | | | | | | | | | | | | |
| 680 | | | | | | | | | | | | | | | | | | |
| 685 | | | | | | | | | | | | | | | | | | |
| 690 | | | | | | | | | | | | | | | | | | |
| 695 | | | | | | | | | | | | | | | | | | |
| 700 | | | | | | | | | | | | | | | | | | |

NEVADA GSI, INC.

# PREP QUALITY ASSURANCE CERTIFICATION

Date 10/16/90

Company LAC MINERALS

Job # 8626

Geologist NATE BREWER

No. Samples 132

| | Sample ID | Weight | +150Wt | -150 Wt | % -150 |
|---|---|---|---|---|---|
| 2 | RL-136 0-5 | 25.17 | .31 | 24.86 | 98.8% |
| 3 | RL-136 125-130 | 25.68 | .47 | 25.21 | 98.2% |
| 4 | RL-136 255-260 | 25.16 | .21 | 24.95 | 99.2% |
| 5 | RL-136 390-395 | 25.93 | .08 | 25.85 | 99.7% |
| 6 | RL-136 525-530 | 25.49 | .11 | 25.38 | 99.6% |
| 7 | RL-136 655-660 | 25.41 | .04 | 24.37 | 99.8% |

☑ PASSED ☐ FAILED

Explanation/Actions

Approved By Richard A. Grondin

Richard Grondin, Lab Manager

file:prep.frm

1498 Kleppe Lane • Sparks, Nevada 89431 • (702) 359-6600 • FAX: (702) 359-6605

NEVADA GSI, INC.

# PREP QUALITY ASSURANCE CERTIFICATION

Date 10/16/90

Company LAC MINERALS

Job # 8626

Geologist NATE BREWER

No. Samples 132

| | Sample ID | Weight | +150Wt | -150 Wt | % -150 |
|---|---|---|---|---|---|
| 2 | RL-136 0-5 | 25.17 | .31 | 24.86 | 98.8% |
| 3 | RL-136- 125-130 | 25.68 | .47 | 25.21 | 98.2% |
| 4 | RL-136 255-260 | 25.16 | .21 | 24.95 | 99.2% |
| 5 | RL-136 390-395 | 25.93 | .08 | 25.85 | 99.7% |
| 6 | RL-136 525-530 | 25.49 | .11 | 25.38 | 99.6% |
| 7 | RL-136 655-660 | 25.41 | .04 | 24.37 | 99.8% |

☑ PASSED ☐ FAILED

Explanation/Actions

Approved By Richard A. Grondin

Richard Grondin, Lab Manager

file:prep.frm

1498 Kleppe Lane • Sparks, Nevada 89431 • (702) 359-6600 • FAX: (702) 359-6605

NEVADA GSI, INC.

# GEOCHEMICAL ANALYSIS REPORT

October 19, 1990

Mr. Nate Brewer
Lac Minerals
1395 Greg Street #107
Sparks, NV 89431

No. Samples: 140
GSI ID: 8626
Analysis: Fire assay for gold with AA finish

| | SAMPLE ID. | Au o/t | Ag o/t |
|---|---|---|---|
| 1. | RL-136 0 - 5 | -0.001 | -0.10 |
| 2. | P - 36 | 0.025 | -0.10 |
| 3. | RL-136 5 - 10 | -0.001 | -0.10 |
| 4. | RL-136 10 - 15 | -0.001 | 0.11 |
| 5. | RL-136 15 - 20 | -0.001 | -0.10 |
| 6. | RL-136 20 - 25 | -0.001 | -0.10 |
| 7. | RL-136 25 - 30 | 0.005 | -0.10 |
| 8. | RL-136 30 - 35 | 0.006 | -0.10 |
| 9. | RL-136 35 - 40 | 0.002 | -0.10 |
| 10. | RL-136 40 - 45 | -0.001 | -0.10 |
| 11. | RL-136 45 - 50 | -0.001 | -0.10 |
| 12. | RL-136 50 - 55 | -0.001 | -0.10 |
| 13. | RL-136 55 - 60 | -0.001 | -0.10 |
| 14. | RL-136 60 - 65 | -0.001 | -0.10 |
| 15. | RL-136 65 - 70 | -0.001 | -0.10 |
| 16. | RL-136 70 - 75 | -0.001 | -0.10 |
| 17. | RL-136 75 - 80 | -0.001 | -0.10 |
| 18. | RL-136 80 - 85 | -0.001 | -0.10 |
| 19. | RL-136 85 - 90 | -0.001 | 0.10 |
| 20. | RL-136 90 - 95 | -0.001 | 0.13 |
| 21. | RL-136 95 - 100 | -0.001 | -0.10 |
| 22. | P - 37 | 0.017 | -0.10 |
| 23. | RL-136 100 - 105 | -0.001 | -0.10 |
| 24. | RL-136 105 - 110 | -0.001 | -0.10 |
| 25. | RL-136 110 - 115 | -0.001 | -0.10 |
| 26. | RL-136 115 - 120 | -0.001 | -0.10 |
| 27. | RL-136 120 - 125 | -0.001 | -0.10 |
| 28. | RL-136 125 - 130 | -0.001 | -0.10 |
| 29. | RL-136 130 - 135 | -0.001 | 0.12 |
| 30. | RL-136 135 - 140 | 0.010 | 0.19 |
| 31. | RL-136 140 - 145 | 0.001 | -0.10 |
| 32. | RL-136 145 - 150 | -0.001 | -0.10 |
| 33. | RL-136 150 - 155 | 0.001 | -0.10 |
| 34. | RL-136 155 - 160 | 0.002 | -0.10 |
| 35. | RL-136 160 - 165 | 0.009 | 0.16 |
| 36. | RL-136 165 - 170 | 0.001 | -0.10 |

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| | SAMPLE ID. | Au o/t | Ag o/t |
|---|---|---|---|
| 37. | RL-136 170 - 175 | -0.001 | 0.24 |
| 38. | RL-136 175 - 180 | 0.001 | -0.10 |
| 39. | RL-136 180 - 185 | 0.001 | 0.26 |
| 40. | RL-136 185 - 190 | 0.007 | 0.21 |
| 41. | RL-136 190 - 195 | 0.007 | 0.28 |
| 42. | P - 38 | 0.091 | -0.10 |
| 43. | RL-136 195 - 200 | 0.002 | -0.10 |
| 44. | RL-136 200 - 205 | -0.001 | 0.16 |
| 45. | RL-136 205 - 210 | 0.001 | -0.10 |
| 46. | RL-136 210 - 215 | -0.001 | -0.10 |
| 47. | RL-136 215 - 220 | -0.001 | -0.10 |
| 48. | RL-136 220 - 225 | 0.001 | 0.21 |
| 49. | RL-136 225 - 230 | -0.001 | -0.10 |
| 50. | RL-136 230 - 235 | -0.001 | -0.10 |
| 51. | RL-136 235 - 240 | -0.001 | -0.10 |
| 52. | RL-136 240 - 245 | -0.001 | 0.15 |
| 53. | RL-136 245 - 250 | 0.001 | -0.10 |
| 54. | RL-136 250 - 255 | 0.002 | -0.10 |
| 55. | RL-136 255 - 260 | 0.001 | -0.10 |
| 56. | RL-136 260 - 265 | -0.001 | -0.10 |
| 57. | RL-136 265 - 270 | -0.001 | -0.10 |
| 58. | RL-136 270 - 275 | -0.001 | -0.10 |
| 59. | RL-136 275 - 280 | 0.001 | -0.10 |
| 60. | RL-136 280 - 285 | 0.001 | -0.10 |
| 61. | RL-136 285 - 290 | 0.003 | -0.10 |
| 62. | P - 39 | 0.036 | 0.26 |
| 63. | RL-136 290 - 295 | 0.005 | 0.11 |
| 64. | RL-136 295 - 300 | 0.016 ✓ | -0.10 |
| 65. | RL-136 300 - 305 | 0.004 | -0.10 |
| 66. | RL-136 305 - 310 | 0.002 | -0.10 |
| 67. | RL-136 310 - 315 | 0.001 | 0.11 |
| 68. | RL-136 315 - 320 | 0.002 | -0.10 |
| 69. | RL-136 320 - 325 | 0.005 | -0.10 |
| 70. | RL-136 325 - 330 | 0.003 | -0.10 |
| 71. | RL-136 330 - 335 | 0.001 | -0.10 |
| 72. | RL-136 335 - 340 | -0.001 | -0.10 |
| 73. | RL-136 340 - 345 | -0.001 | -0.10 |
| 74. | RL-136 345 - 350 | -0.001 | -0.10 |
| 75. | RL-136 350 - 355 | -0.001 | 0.14 |
| 76. | RL-136 355 - 360 | -0.001 | 0.19 |
| 77. | RL-136 360 - 365 | 0.002 | 0.33 |
| 78. | RL-136 365 - 370 | 0.003 | 0.22 |
| 79. | RL-136 370 - 375 | 0.008 | 0.29 |
| 80. | RL-136 375 - 380 | 0.005 | 0.10 |
| 81. | RL-136 380 - 385 | 0.004 | 0.28 |
| 82. | P - 40 | 0.079 | 0.31 |
| 83. | RL-136 385 - 390 | 0.005 | 0.13 |
| 84. | RL-136 390 - 395 | 0.005 | 0.12 |
| 85. | RL-136 395 - 400 | 0.003 | 0.19 |

| | SAMPLE ID. | Au o/t | Ag o/t |
|---|---|---|---|
| 86. | RL-136 400 - 405 | 0.004 | 0.10 |
| 87. | RL-136 405 - 410 | 0.011 | 0.27 |
| 88. | RL-136 410 - 415 | 0.006 | 0.27 |
| 89. | RL-136 415 - 420 | 0.012 | 0.28 |
| 90. | RL-136 420 - 425 | 0.008 | 0.28 |
| 91. | RL-136 425 - 430 | 0.009 | 0.12 |
| 92. | RL-136 430 - 435 | 0.007 | 0.13 |
| 93. | RL-136 435 - 440 | 0.004 | 0.12 |
| 94. | RL-136 440 - 445 | 0.002 | -0.10 |
| 95. | RL-136 445 - 450 | -0.001 | -0.10 |
| 96. | RL-136 450 - 455 | 0.001 | -0.10 |
| 97. | RL-136 455 - 460 | 0.004 | 0.22 |
| 98. | RL-136 460 - 465 | -0.001 | 0.13 |
| 99. | RL-136 465 - 470 | -0.001 | 0.11 |
| 100. | RL-136 470 - 475 | -0.001 | -0.10 |
| 101. | RL-136 475 - 480 | -0.001 | -0.10 |
| 102. | P - 41 | 0.048 | 0.16 |
| 103. | RL-136 480 - 485 | -0.001 | -0.10 |
| 104. | RL-136 485 - 490 | -0.001 | -0.10 |
| 105. | RL-136 490 - 495 | -0.001 | -0.10 |
| 106. | RL-136 495 - 500 | -0.001 | -0.10 |
| 107. | RL-136 500 - 505 | -0.001 | -0.10 |
| 108. | RL-136 505 - 510 | -0.001 | -0.10 |
| 109. | RL-136 510 - 515 | -0.001 | -0.10 |
| 110. | RL-136 515 - 520 | -0.001 | -0.10 |
| 111. | RL-136 520 - 525 | 0.001 | -0.10 |
| 112. | RL-136 525 - 530 | -0.001 | -0.10 |
| 113. | RL-136 530 - 535 | -0.001 | -0.10 |
| 114. | RL-136 535 - 540 | -0.001 | -0.10 |
| 115. | RL-136 540 - 545 | -0.001 | -0.10 |
| 116. | RL-136 545 - 550 | -0.001 | -0.10 |
| 117. | RL-136 550 - 555 | -0.001 | -0.10 |
| 118. | RL-136 555 - 560 | -0.001 | -0.10 |
| 119. | RL-136 560 - 565 | -0.001 | -0.10 |
| 120. | RL-136 565 - 570 | -0.001 | -0.10 |
| 121. | RL-136 570 - 575 | -0.001 | -0.10 |
| 122. | P - 42 | 0.048 | 0.13 |
| 123. | RL-136 575 - 580 | -0.001 | -0.10 |
| 124. | RL-136 580 - 585 | -0.001 | -0.10 |
| 125. | RL-136 585 - 590 | -0.001 | -0.10 |
| 126. | RL-136 590 - 595 | -0.001 | -0.10 |
| 127. | RL-136 595 - 600 | -0.001 | -0.10 |
| 128. | RL-136 600 - 605 | -0.001 | -0.10 |
| 129. | RL-136 605 - 610 | -0.001 | -0.10 |
| 130. | RL-136 610 - 615 | -0.001 | -0.10 |
| 131. | RL-136 615 - 620 | -0.001 | -0.10 |
| 132. | RL-136 620 - 625 | -0.001 | -0.10 |
| 133. | RL-136 625 - 630 | -0.001 | -0.10 |
| 134. | RL-136 630 - 635 | -0.001 | -0.10 |

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| | SAMPLE ID. | Au o/t | Ag o/t |
|---|---|---|---|
| 135. | RL-136 635 - 640 | -0.001 | -0.10 |
| 136. | RL-136 640 - 645 | -0.001 | -0.10 |
| 137. | RL-136 645 - 650 | -0.001 | -0.10 |
| 138. | RL-136 650 - 655 | -0.001 | -0.10 |
| 139. | RL-136 655 - 660 | -0.001 | -0.10 |
| 140 | P - 43 | -0.001 | -0.10 |

This report approved by:

Richard A. Grondin

Richard Grondin, Laboratory Director