

60001325

Mining District File Summary Sheet

| | |
|---|--|
| DISTRICT | Rosebud |
| DIST_NO | 4010 |
| COUNTY | Pershing |
| If different from written on document | |
| TITLE | Rosebud Drill Hole File - Hole No. RL-92 |
| If not obvious | |
| AUTHOR | R. Grondin; N. Brewer; K. Tullar; J. Gaige M. Brady |
| DATE OF DOC(S) | 1990, 1997 |
| MULTI_DIST | <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N? |
| Additional Dist_Nos: | |
| QUAD_NAME | Sulphur 7.5' |
| P_M_C_NAME (mine, claim & company names) | Rosebud Mine; Rosebud Project; Coates Drilling; Lac Minerals (USA) Inc |
| COMMODITY | gold silver |
| If not obvious | |
| NOTES | Drill log; geology; assay; total depth 1281'; handwritten notes; also referred to as RL-92C |
| | 59p. |

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

SS: DD 5/19/08
Initials Date
DB: mwh
Initials Date
SCANNED:
Initials Date

60001325 4010 ✓



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

DRILL LOG SUMMARY SHEET

60001325

PROJECT Rosebud

HOLE NUMBER RL-92 TOTAL DEPTH 1281 LOGGED BY R.C.
DAM

Date started June 1, 1990

Date completed June 15, 1990

Initial bearing 555E 556E

Initial inclination -50° - 47

Elevation 5275.1

N 2205042

E 481750.6

Contractor: COMTES

Drill Type: KDR

Hole Size : _____

Drilling Conditions: 300' Re

Footage: Wet / Dry _____

Comments: _____

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ROSEBUD PROJECT



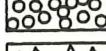
CHOCOLATE TUFF



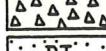
BUD BRECCIA



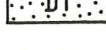
BUD TUFF



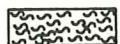
BUD EPICLASTIC



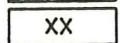
BUD TUFF BRECCIA



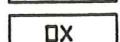
DOZER WELDED TUFF



ARGILLIC



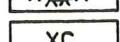
SILICIFICATION



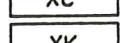
OXIDIZED



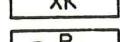
DRUZY QUARTZ



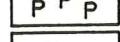
CHALCEDONIC QUARTZ



STICKWORK QUARTZ



PROPYLITIZATION



CALCITE

DRILL HOLE RL-92

Page 1 of 3

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

- CHOCOLATE TUFF
- BUD BRECCIA
- BUD TUFF
- BUD EPICLASTIC
- BUD TUFF BRECCIA
- DOZER WELDED TUFF

- XX
- OX
- DRUZY QUARTZ
- XC
- XK
- PPP
- Ca

- ARGILLIC SILICIFICATION
- OXIDIZED
- DRUZY QUARTZ
- CHALCEDONIC QUARTZ
- STOCKWORK QUARTZ
- PROPYLITIZATION
- CALCITE

DRILL HOLE RL - 92

Page 2 of 3

LOGGED BY D.M.

| LITH. | ALT. | % ARG. ALT. | | | % SIL'N | | | COLOR | % FeOx | | | % SULF. | COMMENTS | Au | Ag | CHECK | |
|-------|-----------|-------------|---|---|---------|---|---|-------------------|--------|---|---|---|--|----|------|-------|--|
| | | W | M | S | W | M | S | | W | M | S | | | | | | |
| | | | | | | | | Orange White | | | | 41% | | | .001 | .14 | |
| 05 | | | | | | | | | | | | | | | .001 | .21 | |
| 10 | | | | | | | | | | | | | | | .004 | .21 | |
| 15 | | | | | | | | | | | | | | | .002 | .20 | |
| 20 | | | | | | | | | | | | | | | .001 | .15 | |
| 25 | | | | | | | | | | | | | | | .006 | .14 | |
| 30 | | | | | | | | | | | | | | | | | |
| 35 | | | | | | | | POREH LT GREEN | | | | 160-285 BLEACHED, Locally silicified GRANULAR, Possibly CRYSTAL? TUFF Druzy Q-Sand Q-sulfars Stomaria common Fine surfaces COMMON | | | .006 | .22 | |
| 40 | | | | | | | | | | | | | | | .002 | .19 | |
| 45 | | | | | | | | | | | | | | | .001 | .17 | |
| 50 | | | | | | | | | | | | | | | .001 | .22 | |
| 55 | | | | | | | | | | | | | | | .001 | .23 | |
| 60 | | | | | | | | | | | | | | | | | |
| 65 | Qvs rv | | | | | | | | | | | | 160-285 weak-moderately Q-sulfars yellowish | | .009 | .14 | |
| 70 | Qvs | | | | | | | | | | | | | | .003 | .22 | |
| 75 | Qvs | | | | | | | | | | | | | | .002 | .25 | |
| 80 | Qvs | | | | | | | | | | | | | | .003 | .27 | |
| 85 | Qvs rv | | | | | | | | | | | | | | .001 | .15 | |
| 90 | Qvs rv | | | | | | | | | | | | | | .011 | .21 | |
| 95 | Qvs rv | | | | | | | | | | | | | | .004 | .22 | |
| 200 | Qvs | | | | | | | | | | | | | | | | |

H₂O

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

| | |
|--|-------------------|
| | CHOCOLATE TUFF |
| | BUD BRECCIA |
| | BUD TUFF |
| | BUD EPICLASTIC |
| | BUD TUFF BRECCIA |
| | DOZER WELDED TUFF |

| | |
|--|--------------------|
| | ARGILLIC |
| | SILICIFICATION |
| | OXIDIZED |
| | DRUZY QUARTZ |
| | CHALCEDONIC QUARTZ |
| | STOCKWORK QUARTZ |
| | PROPYLITIZATION |
| | CALCITE |

DRILL HOLE RL-92

Page 3 of 3

LOGGED BY Darr

| LITH. | ALT. | % ARG. ALT. | | | % SIL'N | | | COLOR | % FeOx | % SULF. | COMMENTS | Au | Ag | CHECK |
|-------|--------------------------|-------------|---|---|---------|---|---|------------------------|--------|---------|---|------|-----|-------|
| | | W | M | S | W | M | S | | | | | | | |
| | | | | | | | | GREY WHITE | | -2% | | .03 | .18 | |
| 05 | V _{Qs} XX x4 | | | | | | | | | | | .004 | .14 | |
| 10 | V _{Qs} | | | | | | | | | | | .051 | .27 | .065 |
| 15 | V _{Qs} | | | | | | | | | | | .085 | .25 | .090 |
| 20 | V _{Qs} | | | | | | | | | | | .003 | .26 | |
| 25 | V _{Qs} | | | | | | | | | | | .003 | .17 | |
| 30 | V _{Qs} | | | | | | | | | | | .002 | .12 | |
| 35 | V _{Qs} XX x4 | | | | | | | WHITE | | | | .001 | L | |
| 40 | V _{Qs} | | | | | | | L7 GREEN mineral | | | | .007 | .19 | |
| 45 | V _{Qs} x4 | | | | | | | PINK | | | | .002 | .13 | |
| 50 | V _{Qs} x4 | | | | | | | | | | | .004 | .19 | |
| 55 | V _{Qs} x4 | | | | | | | | | | | .003 | .14 | |
| 60 | V _{Qs} x4 | | | | | | | | | | | .005 | .24 | |
| 65 | V _{Qs} x4 | | | | | | | | | | | .005 | .20 | |
| 70 | V _{Qs} x4 | | | | | | | | | | | .010 | L | |
| 75 | V _{Qs} x4 | | | | | | | PINK | | | PINK COLOR ALTERATION, MOD-SIK QUARTZ SULFIDE VENINING | .023 | L | |
| 80 | V _{Qs} x4 | | | | | | | | | | | .005 | L | |
| 85 | V _{Qs} x4 | | | | | | | | | | | | | |
| 90 | N | | | | | | | | | | 285-300 GREEN SLIGHTLY BLEACHED BY GR. TUFF | .010 | L | |
| 95 | | | | | | | | | | | | | L | L |
| 00 | | | | | | | | | | | T.D. = 300' | .001 | L | |

| DEPTH (ft) | RECOVERY | Structure | MINERAL- IZA TION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | | |
|------------|----------|-----------|---------------------------------|--------------------------|--|---------------|---------|---------|---------|------------|------------|--|
| | | | | | | Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag | |
| 290 | | | | | * 290 - 1237.6 ALT. TO UNALT. RED BROWN UGLY | | | | | | | |
| 290 | 100 | | ±5° fract | ≤1% clss tun py | 290 - CORE BEGAN | 290-295 | <0.01 | <10 | | | | |
| 300 | 113 | | ±5° fract | X | 290-323.4 Bleached FINE GRAINED TUFF vs. INTRUSIVE it sagegreen w/ weak argillite alk. → pervasive weak fine fracturing w/ hematite fill + local calcite + local blue green (chlorite) mineral ± pyrite, approaching unaltered "red-brown ugly" fractures and breccia matrix becomes red brown, local brecciation to vein breccia to microbrecciation w/ in zones, local hard white clay w/ weak golden pyrite plating | 295-300 | < | < | | | | |
| 310 | 93 | | ±5° fract | X | | 300-304.2 | < | < | | | | |
| 310 | 99 | | ±5° slicks | X | | 304.2-310 | < | < | | | | |
| 320 | 102 | | CalCO ₃ VN | (S) (A) | 293.5-294.5 calcite vein 310.5-313 sticks parallel to core axis w/ talc texture 316-323.4 brecciated to vein breccia - clast supported w/ same composition w/ hematite matrix; weak calcite veining | 310-315 | < | < | | | | |
| 330 | 98 | | NIL | (S) (A) | BRECCIATED CONTACT | 315-320 | < | < | | | | |
| 330 | 98 | | CalCO ₃ VN 80° | (S) (A) | 320-323.4 | < | < | | | | | |
| 340 | 102 | | CalCO ₃ VN | (S) (A) | 323.4-327 | < | < | | | | | |
| 350 | 102 | | CalCO ₃ VN | (S) (A) | 327-332 | < | < | | | | | |
| | | | | | 332-337 | < | < | | | | | |
| | | | | | 337-342 | < | < | | | | | |
| | | | | | 342-347 | < | < | | | | | |
| | | | | | 347-352 | < | < | | | | | |

| DEPTH (ft) | RECOVERY | Structure | Bd. Fol. | Faults | MINERAL- IZATION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | |
|------------|----------|-----------|-------------|--------|-----------------------|----------------|--|---------------|---------|---------|---------|------------|------------|
| | | | | | | | | Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
| 102 | | | | | TR PY IN VNS | | 350 - 1237.6 "RED BROWN UGLY" (CONTINUED) same description @ above ? massive | 352- | | | | < | < |
| 360 | | | | | | (A) | | 357- | | | | < | < |
| 360 | | | | | | (A) | | 362- | | | | < | < |
| 370 | | | | | | (B) | | 367- | | | | < | < |
| 380 | | | | | | (A) | | 372- | | | | < | < |
| 390 | | | | | | (A) | | 377- | | | | < | < |
| 390 | | | | | | | | 382- | | | | < | < |
| 400 | | | | | | | | 387- | | | | < | < |
| 410 | | | | | | | | 392- | | | | < | < |
| 410 | | | | | | | | 396- | | | | < | < |
| 410 | | | | | | | | 396-397.2 | | | | < | < |
| 410 | | | | | | | | 397.2- | | | | < | < |
| 410 | | | | | | | | 402- | | | | < | < |
| 410 | | | | | | | | 407- | | | | < | < |
| 410 | | | | | | | | 407- | | | | < | < |
| 410 | | | | | | | | 413.9- | | | | < | < |
| 410 | | | | | | | | 418.5 | | | | < | < |

| DEPTH (ft) | RECOVERY | Structure | MINERAL-IZA-TION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | | | |
|------------|----------|-----------|------------------|-------------|--|--------|------|--------|-------------|------|------|---------|---------|
| | | | | | | Bd. | Fol. | Faults | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
| 400 | | | | | 490- 1237.6 "RED BROWN UGLY" (continued) | | | | 488-493 | < | < | | |
| 450 | | | | | 487- 496 Bleached zone w/ strong intermittent broken ripples + assoc mod to mod strong Kaolinite alt weak local 1/2" calcite veins fractures w/ chlorite + calcite + haematite + local pyrite. | | | | 493-495 | < | < | | |
| 500 | | | | | 496- 505 unaltered red brown ugly w/ hematite selvage fractures w/ chlorite + calcite | | | | 495-500 | < | < | | |
| 510 | | | | | 500-501 clay (tan) + lg green gouge rubble questionable fault gouge | | | | 500-501 | < | < | | |
| 520 | | | | | 505-511 bleached "RBU" lg green (sage) weak fracturing w/ chlorite + calcite fill | | | | 506-510 | < | < | | |
| 530 | | | | | 506.3 - 506.7 calcite vein | | | | 510-515 | < | < | | |
| 540 | | | | | 526.6 - 533.7 Bleached Red Brown Ugly moderately to strongly fractured w/ green salages + locally w/ hematite + calcite fill locally brecciated to vein breccia to crackle breccia | | | | 515-520 | < | < | | |
| 550 | | | | | 530-535 prominent fracturing parallel to core axis w/ strong white clay to clay gouge fill. | | | | 520-522 | < | .11 | | |
| 560 | | | | | 543.5 - 545 zone of strong soft white Kaolinite gouge filling fractures | | | | 522.2-526.6 | < | .11 | | |
| | | | | | — CONTACT approx 80° to core axis | | | | 526.6-530 | < | < | | |
| | | | | | | | | | 530-535 | < | < | | |
| | | | | | | | | | 535-538 | < | < | | |
| | | | | | | | | | 538-542 | < | < | | |
| | | | | | | | | | 542-546 | < | < | | |
| | | | | | | | | | 545-550 | < | < | | |
| | | | | | | | | | 550-551 | < | < | | |
| | | | | | | | | | 551-553.7 | < | < | | |
| | | | | | | | | | 553.7-559 | < | < | | |

| DEPTH (ft) | RECOVERY | Structure | MINERAL-IZA-TION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | | | |
|------------|----------|-----------|--------------------------------------|-------------|---|-------------|--------|---------------|------|------|------|---------|-------|
| | | | | | | Bd. Fol. | Faults | Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/Ag |
| 560 | | | ±5° ↓ 210/10 vn py | NIL | 560 - 1237.6 "Red Brown UGLY" (continued) | | | 559- 562.2 | | | | L | L |
| 570 | | | 25 hematite fract | NIL | 553.7 - 629 Relatively unaltered - GRAY "Red Brown Ugly" w/ hematitic green chlorite (?) + calcite filled fractures w/ hematitic selvages ~ 1/4" from fract. | | | 562.2- 565 | | | | L | L |
| 580 | | | 70 calcite vn | | 562.2 - 565 zones prominent fracture veining @ ±5° to core axis w/ calcite + pyrite + hematite + green clay fill ± 510? | | | 565- 570 | | | | L | L |
| 590 | | | 40/ fract ±5° calcite vn | | | | | 570- 575 | | | | L | L |
| 600 | | | ±5° hematite + calcite vn | | | | | 575- 580 | | | | L | L |
| 610 | | | 70/ fract ±5° calcite vn | | 613-618 weak ↑ fine hairline calcite + hematite veins | | | 580- 585 | | | | L | L |
| 620 | | | 45 calcite vn | | | | | 585- 590 | | | | L | L |
| 630 | | | 30/ 10M vn | 7Be | 629 - 632 weak bleaching w/ local white clay + green clay gouge | | | 590- 600 | | | | L | L |
| | | | | | | | | 600- 605 | | | | L | L |
| | | | | | | | | 605- 610 | | | | L | L |
| | | | | | | | | 610- 615 | | | | L | L |
| | | | | | | | | 615- 620 | | | | L | L |
| | | | | | | | | 620- 625 | | | | L | L |
| | | | | | | | | 625- 630 | | | | L | L |

| DEPTH (ft) | RECOVERY | Structure | MINERALIZA-TION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | | | |
|------------|----------|-------------------------------|---------------------------|-------------|---|--------|------|--------|---------------|------|------|---------|---------|
| | | | | | | Bd. | Fol. | Faults | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
| 630 | 103 | | NIL | | 630 - 1237.6 "RED BROWN UGLY" (continued) | | | | 629- 635 | | | < | < |
| 640 | 98 | 35° banding fract vn | ±10° fract | | 630 - 642 weak intermittent bleaching w/ weak hematite + calcite + chalcocite? fill - lt gray - relatively unaltered | | | | 635- 640 | | | < | < |
| 650 | 103 | 60° fract vn | 1-2° vn ±diss py | | 642 - 665.5 Bleached "Red Brown Ugly" pervasively lt sage green moderately strong fracturing throughout w/ bluegreen mineral + calcite + pyrite + local white clay + local drusy gte lining. Local crackle to vein brecciated in hematitic matrix local lt sage green cleav + local apple green alt. weak pervasive bleaching, local silicification | | | | 645- 650 | | | < | < |
| 660 | 102 | 65° py | (A) (X) | | | | | | 650- 652.2 | | | < | < |
| 670 | 94 | 75° co-co vn | NIL | | 665.8 - 677 unaltered Red Brown Ugly w/ hematitic selvaged fractures locally brecciated - few med. gray | | | | 652.2- 654 | | | < | < |
| 680 | 86 | 25° band fract vn | TR vn py | | 677 - 684 Bleached Red brown ugly weak to mod fracturing w/ cl white? + white clay + local pyrite fill | | | | 665.2- 670 | .002 | | < | |
| 690 | 107 | 60° py + co-co vn | 70° co-co vn | | | | | | 675- 680 | | | < | < |
| 700 | 98 | 30° fract vn | ≤10° vn py | | 684 - 750 Relatively unaltered Red brown ugly | | | | 680- 685 | | | < | < |
| | | 65° co-co vn | NIL | | 690.5 - 693 zone of ↑ fracturing w/ lt green clay + calcite + white clay + tr pyrite | | | | 685- 690 | .024 | | < | |
| | | 65° co-co vn | | | clay + calcite + white clay + tr pyrite | | | | 690- 695 | | | < | < |
| | | | | | | | | | 695- 700 | | | < | < |

| DEPTH (ft) | RECOVERY | Structure | Bd. Fol. | Faults | MINERAL- IZA- TION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | |
|------------|----------|-----------|-------------|--------|--------------------------|----------------|---|---------------|---------|---------|---------|------------|------------|
| | | | | | | | | Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
| 770 | | | | | NIL | | 770 - 1237.6 "RED BROWN UGLY" (continued) | 770- | | | | | |
| 775 | | | | | | | | 775 | | | | | |
| 780 | | | | | | | 766 - 944.6 UNALTERED RED BROWN UGLY | 775- | | | | | |
| 785 | | | | | | | | 780 | | | | | |
| 790 | | | | | | | | 785- | | | | | |
| 795 | | | | | | | | 790 | | | | | |
| 800 | | | | | | | | 795- | | | | | |
| 805 | | | | | | | | 800 | | | | | |
| 810 | | | | | | | | 805- | | | | | |
| 815 | | | | | | | | 810 | | | | | |
| 820 | | | | | | | | 815- | | | | | |
| 825 | | | | | | | | 820 | | | | | |
| 830 | | | | | | | | 825- | | | | | |
| 835 | | | | | | | | 830 | | | | | |
| 840 | | | | | | | | 835- | | | | .001 | |
| | | | | | | | | 835 | | | | .001 | |
| | | | | | | | | 840 | | | | | |

| DEPTH (ft) | RECOVERY | Structure | MINERAL-IZA-TION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | | | |
|------------|----------|-----------|------------------|-------------|---|-------------|--------|---------------|---------|---------|---------|------------|------------|
| | | | | | | Bd. Fol. | Faults | Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
| 850 | | | | | 840 - 1237.6 "RED BROWN UGLY" (continued) | | | 840- 845 | | | | < | < |
| 860 | | | | | | | | 845- 850 | | .001 | | < | |
| 870 | | | | | | | | 850- 855 | | .001 | .11 | | |
| 880 | | | | | | | | 855- 860 | | .001 | .16 | | |
| 890 | | | | | | | | 860- 865 | | .001 | | < | |
| 900 | | | | | | | | 865- 870 | | < | < | | |
| 910 | | | | | | | | 870- 875 | | .001 | | < | |
| | | | | | 876 - 884 finely vesicular w/ calcite + white clay fill | | | 875- 880 | | .001 | | < | |
| | | | | | | | | 885- 890 | | | | < | < |
| | | | | | | | | 890- 895 | | | | < | < |
| | | | | | | | | 895- 900 | | | | < | < |
| | | | | | 908 - 912 finely vesicular w/ calcite + white clay fill | | | 900- 905 | | | | < | < |
| | | | | | | | | 905- 910 | | | | < | < |

| DEPTH (ft) | RECOVERY | Structure | MINERALIZA TION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | |
|------------|----------|-----------|--------------------|----------------|---|---|------|------|------|------------|------------|
| | | | | | | Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
| 910 | | | NIL | | 910 - 1237.6 "RED Brown UGLY" (continued) | 910- | | | | < | < |
| 915 | | | | | | 915- | | | | | |
| 920 | | | | | | 920- | | | | .001 | c |
| 925 | | | | | | 925- | | | | | |
| 930 | | | | | | 930- | | | | | |
| 935 | | | | | | 935- | | | | | |
| 940 | | | | | | 939 - 941 Bleached w/ local vein brecciation fractured w/ hematite + chalcocite? + calcite fill | | | | | |
| 944.6 | | | | | | 944.6- | | | | | |
| 948.5 | | | | | | 948.5- | | | | | |
| 950 | | | | | | 948.5- 951 | | | | c. | |
| 955 | | | | | | 951- 955 | | | | .006 | < |
| 960 | | | | | | 955- 960 | | | | .001 | < |
| 965 | | | | | | 960- | | | | | |
| 970 | | | | | | 965- | | | | | |
| 975 | | | | | | 970- | | | | | |
| 980 | | | | | | 975.3- 978 CRACKLE BRECCIA | | | | | |

| DEPTH (ft) | RECOVERY | Structure | MINERALIZA TION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | | |
|------------|----------|-----------|--|---------------------------------|---|-------------|--------|-------|------|------|---------|---------|
| | | | | | | Bd. Fol. | Faults | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
| 98 | | | $\pm 5\%$ 1/Flo | $\pm 2\%$ diss vn | 1050-1111.2 Bleached Red Brown Tuff (continued) same description @ above w/ ↑ AUTO-CRACKLE BRECCIATION THROUGHOUT ENTIRE zone below 1050' w/ lt green to tan selvages around fracture uns | | | 1050- | | | .11 | < |
| 99 | | | ss/ clay vn | $\pm 5\%$ t+vn shot py | | | | 1055 | | | | |
| 100 | | | ss/ clay vn | $\pm 5\%$ py/vn | | | | 1055- | | | | |
| 1060 | | | $\pm 45^\circ$ sio ₂ clay vn | $\pm 45^\circ$ py/vn | 1062.5-1062.7 VEIN-2" SiO ₂ + Kaolinite @ 45° to core axis | | | 1060- | | | ,004 | < |
| 1070 | | | ss/ flo | $\pm 45^\circ$ py/vn | | | | 1065- | | | ,005 | < |
| 1080 | | | ss-10° py sio ₂ | $\pm 45^\circ$ py/vn | | | | 1070- | | | ,001 | ,19 |
| 1090 | | | 40 caco ₃ vn | $\pm 1\%$ vn+ diss py | | | | 1075- | | | ,017 | < |
| 1100 | | | 60 py/flo vn | $\pm 45^\circ$ | | | | 1080- | | | ,003 | < |
| 1110 | | | 30 caco ₃ vn | $\pm 45^\circ$ | | | | 1085- | | | ,001 | < |
| 1120 | | | ss caco ₃ vn | $\pm 45^\circ$ nil | | | | 1090- | | | < | < |
| 99 | | | 5/ caco ₃ vn | | | | | 1095- | | | | |
| | | | | | | | | 1100- | | | | |
| | | | | | | | | 1105- | | | | |
| | | | | | | | | 1110- | | | | |
| | | | | | | | | 1115- | | | | |
| | | | | | | | | 1115- | | | | |
| | | | | | | | | 1120 | | | | |

BRECCIATION: CRACKLE TO AUTO w/ pervasive rotation of frags w/ local milling

1078-1085 prominent post drilling OXIDATION - golden orange of fine 1/4"-1/2" long pyrite crackle veinlets

1111.2-1168 RELATIVELY UNALTERED RED BROWN FINE GRAINED TUFF - moderately finely fractured w/ hematitic selvages

| DEPTH (ft) | RECOVERY | Structure | MINERALIZATION | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | |
|------------|----------|-----------|----------------|-------------|---|------------|------|------|------|---------|---------|
| | | | | | | Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
| 1140 | | | NIL | | 1140 - 1168 UNALTERED RED BROWN FGT (CONTINUED) Same description @ all of above | 1120-1125 | | | | < | < |
| 1130 | | | | | | 1125-1130 | | | | < | < |
| 1140 | | | | | | 1130-1135 | | | | < | < |
| 1140 | | | | | | 1135-1140 | | | | < | .17 |
| 1140 | | | | | | 1140-1145 | | | | < | < |
| 1150 | | | | | | 1145-1150 | | | | < | < |
| 1160 | | | | | | 1150-1155 | | | | < | < |
| 1170 | | | | | 1180-1190 prominent veining - moderate 1-2mm wide w/ dark gray sulfides + white clay w/ post drilling calcin oxidation selvages out to 1/2" fresh veins 1180-1182.3 intermittent silicified hydrotherma breccia veins w/ vuggy druzzy gte-py+replac marcasite ~2 stages & poss dk gray silver mineral | 1155-1160 | | | | < | < |
| 1180 | | | | | *1168 - 1237.6 ALTERED FGT - pervasively bleached + clay altered - moderately buff to lt flesh altera- tion coloration pervasive banding prob due to fracture alter. Selvages ? preferential clay alt weak veining w/ calcite + white clay fill + local pyrite, weak local crackle + vein brecciation | 1160-1165 | | | | < | .10 |
| 1190 | | | | | 1175-1180.7 FAULT - Reheated Breccia predom clast supported; locally matrix Supported SiO ₂ rich w/ white clay Kaolinite rich 2 prominent stages of veining: 1) hairline pyrite + 2) ± 1/4" clay veins + locally hydrothermally silicified breccia vns up to 3 stages of brecciation | 1165-1168 | | | | .001 | < |
| | | | | | | 1175-1180 | | | | ,003 | < |
| | | | | | | 1180-1184 | | | | ,012 | < |
| | | | | | | 1184-1190 | | | | ,039 | .10 |

| DEPTH (ft) | RECOVERY | Structure | MINERALIZATON | GRAPHIC LOG | DESCRIPTION | ASSAYS | | | | | |
|------------|----------|-----------|---------------------------|--|--|--|------|------|------|---------|---------|
| | | | | | | Sample No. | % Cu | % Pb | % Zn | oz/t Au | oz/t Ag |
| 103 | | | 2-3% DISS TUN PY | 70°/45° 60° ↓ 55° Py vn | 1245.4 - 1257.5 TRANSITIONAL - SANDSTONE SEDIMENTS - medium gray to grayish tan fine grained to ARKOSIC SANDSTONE moderately to strongly silicified, interbedded giving laminated texture locally of dk gray, lt gray, tan seds. 1256 - 1257 poss intrusive dikes locally jumbled into seds - due to poss pheno xts texture weak local vein brecciation weak to weakly moderate veining predom: 1) SiO_2 ± local white clay 2) $\pm \text{CaCO}_3$ 3) pyrite | 1257.5 1265 1265 1270 | | | | ,008 | ,60 |
| 1270 | | | | | 1255 - 1257.5 TRANSITIONAL CONTACT zone of jumbled sediments; coarser seds or poss intrusive (poss xts) per. mod silicification; local brecciation w/ ↑ dark gray sulfide + pyrite veining | 1270 1275 1275 1278 1278 1281 | | | | ,049 | ,21 |
| 102 | | | | | 1257.5 - 1281 J2 SEDIMENTS - DARK GRAY carbonaceous SHALES - BLACK - METAMORPHOTIC SILICIFIED w/ local vein brecciation local intrusive APALITE dikes vs sedimentary sandy beds up to 3"-4" wide, mod to strongly veined 1) pyrite $\pm \text{SiO}_2$ (locally vuggy) \pm clay 2) white clay 3) chalcedony | | | | | ,009 | ,42 |
| 1281 | | | | | 1265 - 1265.4 breccia vein @ 60-65° to core axis w/ silicified & riddled w/ fine qtz + pyrite stockwork veins | | | | | | |
| | | | | | 1260 - 1260.5 clay gauge w/ oxidized pyrite spheres | | | | | | |

PROJECT: ROSEBUD

LOGD BY: MWB

UTM#: NK 11-10-06

STATE: Nevada

COUNTY: Pershing

NORTHING:

EASTING:

TOTAL:

Page 1/2

HOLE#: RL

DRB 92

SEC. T. N. R.

ELEVATION:

BEARING:

ANGLE:

DRILLING NOTES

TIME Dates, H2O, Casing, Bits, Hole C

C
O
L
O
R
(WET)

DEPTH in FEET

10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250

STRATIGRAPHY/LITHOLOGY

STRUCTURE

ALTERATION & MINERALIZATION

COMMENTS

Sample Recovery

Composite Geochem Intervals

A B C U B M L D W S A L A I B A R B G G

OXIDATION G U P A R S V C G

L A H R K O I U S A U N A N H R O R M H L P R N R P R T E V C G

AERATION A N O G L K W N S I C G

L D O B A R B Z L R H A T T S D Y O U A M E I Y A N M M R P L P S I C G

REDUCTION B U E D G F A O R A E O K G P N M M R P L P S I C G

U G C U D P D R O U L X S T I I N I A T N T C D T L I C G

FUMIGATION G A O I T Y R L S I C G

V E O D Y P D R O U L X S T I I N I A T N T C D T L I C G

HYDROTHERMAL B U L S I I N I A T N T C D T L I C G

M R L T S F O A V T T C D T L I C G

SULFIDATION G A O I T Y R L S I C G

I 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

WTE

4

WTE+ORG

1

BRN

1

GRY+WTE

1

WTF

1

WTE+

2

TAN

1

TAN

2

WTE

2

+TAN

1

All clay - fault?

equigranular pyrite + pyrrhotite

| | | | | | | | | | | | | | | | | |
|--|--|------------------|--|-----------------------------|--|----------|--|----------|--|------------|--|-----|--|--|--|--|
| PROJECT: ROSEBUD | | STATE: Nevada | | NORTHING: | | TOTAL: | | Page 2/2 | | HOLE #: RL | | | | | | |
| LOGD BY: MWB | | COUNTY: Pershing | | EASTING: | | BEARING: | | | | DRB 92 | | | | | | |
| UTM #: NK 11-10-06 | | SEC. T. N. R. | | ELEVATION: | | ANGLE: | | | | | | | | | | |
| DRILLING NOTES | | | | | | | | | | | | | | | | |
| TIME | Dates, H2O, Casting, Bits, Hole C | | | | | | | | | | | | | | | |
| STRATIGRAPHY/LITHOLOGY | | | | | | | | | | | | | | | | |
| C 0 L 0 R (WET') | A B C U B M L D W S A L A I B A R B G G L A H R K O I U S S A U N A N H R O R M H L P R L D O B A R B Z L R H V T T S D Y O U A M H L P R U G C U D Y P D R U E D G O A O R A E O K G A O I P V E O D Y P D R T F O B U L O X S L I I N T N T C M R L O R O S F O A V T T I I N R L D T I 2 3 4 5 6 7 8 9 10 11 12 13 11 12 13 14 15 16 1 2 3 4 5 6 7 8 9 10 11 12 13 11 12 13 14 15 16 | STRUCT | | ALTERATION & MINERALIZATION | | | | | | | | | | | | |
| DEPTH in FEET | WT% | | | | | | | | | | | | | | | |
| 260 | WT% | | | | | | | | | | | 255 | | | | |
| 270 | | | | | | | | | | | | 260 | | | | |
| 280 | | | | | | | | | | | | 265 | | | | |
| 290 | WT% | | | | | | | | | | | 270 | | | | |
| 300 | WT% | | | | | | | | | | | 275 | | | | |
| 310 | WT% | | | | | | | | | | | 280 | | | | |
| 320 | WT% | | | | | | | | | | | 285 | | | | |
| 330 | WT% | | | | | | | | | | | 290 | | | | |
| 340 | WT% | | | | | | | | | | | 295 | | | | |
| 350 | WT% | | | | | | | | | | | 300 | | | | |
| 360 | WT% | | | | | | | | | | | 305 | | | | |
| 370 | WT% | | | | | | | | | | | 310 | | | | |
| 380 | WT% | | | | | | | | | | | 315 | | | | |
| 390 | WT% | | | | | | | | | | | 320 | | | | |
| 400 | WT% | | | | | | | | | | | 325 | | | | |
| 410 | WT% | | | | | | | | | | | 330 | | | | |
| 420 | WT% | | | | | | | | | | | 335 | | | | |
| 430 | WT% | | | | | | | | | | | 340 | | | | |
| 440 | WT% | | | | | | | | | | | 345 | | | | |
| 450 | WT% | | | | | | | | | | | 350 | | | | |
| 460 | WT% | | | | | | | | | | | 355 | | | | |
| 470 | WT% | | | | | | | | | | | 360 | | | | |
| 480 | WT% | | | | | | | | | | | 365 | | | | |
| 490 | WT% | | | | | | | | | | | 370 | | | | |
| 500 | WT% | | | | | | | | | | | 375 | | | | |
| COMMENTS | | | | | | | | | | | | | | | | |
| Sample Recovery | | | | | | | | | | | | | | | | |
| Composite Geochem Intervals | | | | | | | | | | | | | | | | |
| equigranular w/ disse pyt qtz+pyr vnlts 1-3mm wide | | | | | | | | | | | | | | | | |
| 4 green chlorite veinlets cut fine-med grained and altered hornbl-zch. | | | | | | | | | | | | | | | | |

| PROJECT: Rosebud JV | | | UTM: NK 11-10-06 C | | | NORTHING: | | | | | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 3/20 | | | | | | | | | | | | | |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|-----------------------|---------------------------------|---|--------------------------------------|---|---|---|---------------------------------|--------------------|------------|----|----|----|--------------|----|--------|----|----|----|----|----|----|----|----|---------------------------------|--|--|
| LOGD BY: <i>MWB</i> | | | STATE: Nevada County Pershing | | | EASTING: | | | | | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL 92 | | | | | | | | | | | | | |
| DATE: | | | SEC. T. N. E. | | | ELEVATION: | | | | | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | STRUCT | | | ALTERATION/MINERALIZATION | | | | | | STRAT | | | | | | D | L | A | S | SCALE: | | | | S | | | | | | | |
| D E P T H F T | R E C / C U T | R L D H G U D | A M U T T U U | M L R H G U U | P U T T F U U | S A R A O S U | A L R S L B S | A I N R I I T | A I N R I I T | B A R E E E T | G G L P I N E | V I L E O D T | A R L R T | C G C U D Y P | M B D O B A R D R | W L R B L Z D R | D E P T H G R F T | E I T T H G A A P P H | I L R R A A P P H | T R C T R R N | LITH. EXPLANATION: | | | | A | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | M M P L I N T | | |
| 405 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 410 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 415 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 425 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 430 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 435 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 440 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 445 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT: Rosebud JV | | | | | | | | | | UTM: NK 11-10-06 C | | | | | | | | | | NORTHING: | | | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 4/20 | | | |
|---------------------------------|---------------------------------|---------------------------------|---|---|--|---|---|--|--|--|--|---|--|---|--------------------------------------|---|---|--|---------------------------------|-----------|-------|----------|----|------------|----|----|----|--------------|----|------------------|----|----|----|----------|----|----|----------|------------|--|--|--|
| LOGD BY: mub | | | | STATE: Nevada County Pershing | | | | | | EASTING: | | | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | | | |
| DATE: | | | | SEC. | T. | N., | E. | ELEVATION: | | | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | | | | STRUCT | | | ALTERATION/MINLIZATION | | | | | STRAT | | | | | D | L | A | S | SCALE: 1" =10 ft | | | | S | | | | | | | |
| D E P T H F T | R E C / C U T | R L D Q V D T | A M U L H C U G F | M P U T T F T F F | L I U T A O R B S I | P U S R H G A U U U X | S A A R D M R P D S L | A L S D Y C O U L I | A J N H E Y C O L E | A B R R P R P G G L | I B A N H E I Y O G G L | B T A E H R K I O | M C M C L T D O B A R B L Z | C C C C U D Y P D R R | B C U B M L W D | E P T H G G R R A A P P H | I L T T C G G R A A N T H | LITH. EXPLANATION: MUD CGL Mud matrix conglomerate LITH TUF Lithic clast dominant tuff PUM TUF Pumice rich tuff SURGE TUF Bedded matrix rich lithic tuff | A M P L I N T | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | COMMENTS | | | | |
| 455 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 460 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 465 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 470 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 475 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 485 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 490 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 495 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT: Rosebud JV | | | UTM: NK 11-10-06 C | | | NORTHING: | | | | | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 5/20 | | | |
|--------------------------------------|--|---|--|--|---|------------|--|--|--------|--|--|---------------------------|--|--|--|--|--|--------------|--|--|--|------------|--|--------------------------------------|---|--|--------|----------|--------------------------------------|
| LOGD BY: <i>mark</i> | | | STATE: Nevada County Pershing | | | EASTING: | | | | | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # <i>RL-92</i> | | | |
| DATE: | | | SEC. | T. | N., E. | ELEVATION: | | | | | | | | | | | | ANGLE: | | | | DRILLER: | | | | S A M P L I N T | | | |
| DRILLING | | | LITHOLOGY | | | | | | STRUCT | | | ALTERATION/MINERALIZATION | | | | | | STRAT | | | | | | D E P T H F U T | L I T H C U P R A R E G G M H L P R R P G G L Z L T D O B A R B L Z I O P T H C G G T R R A A N P P T | S T R U M C L A N T R E S E S T R S H H | SCALE: | COMMENTS | S A M P L I N T |
| D E P T H F U T | R E C / Q U C V F U T | A M L D H G A O R A E O B S T I I X U U U L T A F F F O X V T T A M L | M U S A U N A H E R O O M M R P I Y O G G L N E I Y O G G L Z L T D O B A R B L Z I O P T H C G G T R R A A N P P T | P S A L A I B A R T B G V Fe MIN P A A R Q C M B C U B M L W D E I L T D O B A R B L Z I O P T H C G G T R R A A N P P T | more massive fine grained; no flow foliations LBT 500-501 - clay + fractured → fault. 506-506.5 massive calcite in crush zone 80°CA 509 "w calcite unit 90°CA 0.5" calcite veinlet 75°CA poss fluid breccia Lt brown rock flower matrix. 3" crush zone, no lineation → fault pervasive arg. auth. 2' crush+clay zone → fault slicks 55°CA 544-47 poss fluid breccia Lt brown rock flower matrix | | | | | | | | | | | | | | | | | | | | | | | | |
| 505 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 510 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 515 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 520 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 525 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 530 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 535 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 540 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 545 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 550 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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|---------------------------------|---------------------------------------|---|--|--|--------|-----------|---|----|------------|----|----|---------------------------|----|----|----|----|----|--------------|----|----|--------|------------|----|----|----------|--------------|----|--------|----|----|----|--------------------------------------|----|----|----|----|
| PROJECT: Rosebud JV | | | UTM: NK 11-10-06 C | | | NORTHING: | | | | | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 6/20 | | | | | | | | | | |
| LOGD BY: mwh | | | STATE: Nevada County Pershing | | | EASTING: | | | | | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | |
| DATE: | | | SEC. | | T. | N., | | E. | ELEVATION: | | | | | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | STRUCT | | | ALTERATION/MINERALIZATION | | | | | | STRAT | | | | | | D | L | A | S | SCALE: | | | | | | | | |
| D E P T H F T | R E C /Q U V U T | R L D H G A O R A E O K G D O M M R P 2 S I L N T A R L Y P D R R | A M L U I U S A L A I B A R T B G V M H L P R R P T A E A H R K I O P D R R | M H L P R R P T A E A H R K I O P D R R | Fe MIN | P | A | A | R | Q | C | M | B | C | U | B | M | L | W | D | D | E | I | L | T | P | T | H | C | P | L | S A M P L I N T | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 |
| 555 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 565 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 570 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 575 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 580 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 585 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 590 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 595 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

COMMENTS

550-52 poss. fluid box Lt brn rock, lower matrix v fine equigranular unit w/sparse local hnbl fracture controlled alteration.

intrusive, v fine grained, equigranular w/ sparse hnbl.

6" w crushed zone w/calcite 40° CA

fracture 60° CA

fracture controlled prop altn. mostly weak.

| PROJECT: Rosebud JV | | | UTM: NK 11-10-06 C | | | NORTHING: | | | | | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 7 / 20 | | | | | | | | | | | | | | | | | |
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| LOGD BY: MUL | | | STATE: Nevada County Pershing | | | EASTING: | | | | | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | | | | | | | |
| DATE: | | | SEC. | T. | N., E. | ELEVATION: | | | | | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | | | | | | STRUCT | | | | | | | | | | | | ALTERATION/MINERALIZATION | | | | STRAT | | | | D | L | A | S | SCALE: | | | | S |
| D E P T H F T | R E C / C U T | R L D Q U V C T T F U U L B S T I I X N A M L | M U T H G A O R A E O U L S T I I X N A F F F O X V T T A | A M L P S A L A I B A R T B G V | I U U S A U N A N H E R O O M H L P R R P G G L | Fe MIN P A A R Q C M B C U B M L W D | M H L P R R P G G L | T A E A H R K I O D Y P D R R | E I L E O D Y P D R R | T L T D O B A R U D E | B C U B M L W D | T H C G G T R R A A N P P H | L T R R A A N P P H | A L T R R A A N P P H | S T R C G G T R R A A N P P H | LITH. EXPLANATION: | MUD CGL | Mud matrix conglomerate | LITH TUF | Lithic clast dominant tuff | PUM TUF | Pumice rich tuff | SURGE TUF | Bedded matrix rich lithic tuff | S | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | A M P L I N T | | | | | | |
| 605 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 610 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 615 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 620 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 625 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 630 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 635 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 640 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 645 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 650 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT: Rosebud JV | | | UTM: NK 11-10-06 C | | | NORTHING: | | | | | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 8/20 | | | | | | | | | | | |
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| LOGD BY: MWS | | | STATE: Nevada County Pershing | | | EASTING: | | | | | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | |
| DATE: | | | SEC. T. N., E. | | | ELEVATION: | | | | | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | STRUCT | | ALTERATION/MINERALIZATION | | | | | | STRAT | | | | | | D | L | A | S | SCALE: | | | | S | | | | | | |
| D E P T H F T | R E C /C H U T | R L D Q U V C T T F U U L B S T I I X N A T | A M L U I U T M R H G A O R A E O K G D O M M R P X T O I I N T E T T | M P S A L A U N A N H C O U I N E I Y O G G L M H L P R R P Z L T D O B A R B L Z C C G C U D E O D Y P D R R S E S T R T R R S E S T R R S | Fe MIN P A A R Q C M B C U B M L W D | E I L T A E H R K R B L Z H G G T R R F A A N T | E I L T R C L T R R F A A N T | L A S T R C G T R R P P H | ALTERATION/MINERALIZATION | STRAT | D | L | A | S | SCALE: | LITH. EXPLANATION: | S | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | A M P L I N T |
| 655 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 660 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 665 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 670 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 675 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 680 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 685 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 690 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 695 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 700 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT: Rosebud JV | | | UTM: NK 11-10-06 C | | | NORTHING: | | | | | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 10/20 | | | | | | | | | | | | | | | | | |
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| LOGD BY: mwh | | | STATE: Nevada County Pershing | | | EASTING: | | | | | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | | | | | | | |
| DATE: | | | SEC. T. N., E. | | | ELEVATION: | | | | | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | | | | | | STRUCT | | | | | | | | | | | | ALTERATION/MINERALIZATION | | | | STRAT | | | | D | L | A | S | SCALE: | | | | S |
| D E P T H F T | R E C / C U T | R R Q D V C U T | A M L D H G T U U U G F F | M U S R H A O R U U U F F | P U S M V T R T T T F F | S A A D Y C O U I L S T I I X N | A L A T N D Y U L S T I I X N | A I N R E E I N T E | B B R R P R P G G L L I N T E | G M H L P R R G G L S E S T R | M H L P R R G G L Z L T D O B A R L E O D Y P D R R | Fe MIN P A A R Q C M B C U B M L W D | MIN P A A R Q C M B C U B M L W D | T A E A H R K R B L Z D E H G G T P D R R | E I L T T R H C P A A N P P T | LITH. EXPLANATION: MUD CCL LITHIC CLAST DOMINANT TUFF PUM TUF SURGE TUF | A M P L I N T | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | S | | | | | | |
| 755 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 760 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 765 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 770 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 775 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 780 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 785 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 790 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 795 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT: Rosebud JV | | | | | | | | UTM: NK 11-10-06 C | | | | | | | | NORTHING: | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 11/20 | | | | | | | | |
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| LOGD BY: MUR | | | | STATE: Nevada County Pershing | | | | EASTING: | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL92 | | | | | | | | | | | | | | | | |
| DATE: | | | | SEC. | T. | N., | E. | ELEVATION: | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | | | | | | STRUCT | ALTERATION/MINERALIZATION | | | | | | STRAT | D | L | A | S | SCALE: 1" = 10 ft | | | | S | | | | | | | | | |
| D | R | R | A | M | L | P | S | A | L | A | I | B | A | R | T | B | G | V | Fe | MIN | P | A | A | R | Q | C | M | B | C | U | B | M | L | W | D | A | | | | |
| E | E | R | L | U | I | U | U | S | A | U | N | A | N | H | E | R | O | O | M | H | L | P | R | R | P | T | A | E | A | H | R | K | I | O | T | | | | | |
| P | C | L | D | T | M | R | H | V | T | T | S | D | Y | C | O | U | I | N | E | I | Y | O | G | G | L | Z | L | T | D | O | B | A | R | B | L | Z | | | | |
| T | / | Q | U | H | G | A | O | R | A | E | O | K | G | D | O | M | M | R | P | 2 | S | V | J | L | E | O | D | Y | P | D | R | R | H | G | G | T | | | | |
| H | C | V | C | T | T | T | F | U | L | S | L | B | E | E | X | T | O | I | 1 | I | N | T | A | R | L | O | O | R | S | F | A | A | N | I | | | | | | |
| F | U | D | U | U | U | U | L | B | S | T | I | I | X | N | I | N | T | E | 2 | S | V | I | L | E | O | D | Y | P | D | R | R | H | P | P | T | | | | | |
| T | T | M | L | F | F | F | O | X | V | T | T | A | | | T | T | E | 3 | L | S | E | S | T | T | R | S | 3 | 34 | 35 | 36 | 37 | H | H | | | | | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | |

COMMENTS

805

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995

0.25 inch wide calcite veinlet 75° CA

0.5 inch wide calcite veinlet 85° CA

Flow foliated 843-45
1.0 inch calcite veinlet 90° CA
waxy clay in narrow veinlets + irregular matrix
Poss. flow contact 65° CA
fine grained andesite mudflow w/ andesite
lithics local, more granular texture.

| PROJECT: Rosebud JV | | | | | | | | UTM: NK 11-10-06 C | | | | | | | | NORTHING: | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 12/20 | | | | | | | | | | | |
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| LOGD BY: MULB | | | | STATE: Nevada County Pershing | | | | EASTING: | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | | | | | | | | | |
| DATE: | | | | SEC. | T. | N., | E. | ELEVATION: | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | | | | | | STRUCT | ALTERATION/MINERALIZATION | | | | STRAT | | | | D | L | A | S | SCALE: 1" = 10 ft | | | | S | | | | | | | | | | | |
| D | R | R | A | M | L | P | S | A | L | A | I | B | A | R | T | B | G | V | Fe | MIN | P | A | A | R | Q | C | M | B | C | U | B | M | L | W | D | E | I | L | T | A | | | |
| E | E | R | L | U | I | U | U | S | A | U | N | A | N | H | E | R | O | O | M | H | L | P | R | R | P | T | A | E | A | H | R | K | I | O | P | T | T | R | M | | | | |
| P | C | L | D | T | M | R | H | V | T | T | S | D | Y | C | O | U | I | N | E | I | Y | O | G | G | L | Z | L | T | D | O | B | A | R | B | L | Z | T | H | C | P | | | |
| T | / | Q | U | H | G | A | O | R | A | E | O | K | G | D | O | M | M | R | P | 2 | S | V | I | L | E | O | D | Y | P | D | R | R | H | G | G | T | H | G | G | L | I | | |
| H | C | V | C | T | T | F | U | L | U | S | L | B | E | E | X | T | O | I | I | N | T | A | R | L | O | O | R | S | F | A | A | N | T | P | P | T | H | H | N | T | | | |
| F | U | D | U | G | U | U | U | L | B | S | T | I | I | X | N | T | E | L | S | E | S | T | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | T | H | H | H | I | | | | | |
| T | T | M | L | F | F | F | O | X | V | T | T | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | | | | |

COMMENTS

mudflow with andesite lithics more granular matrix texture.

rock basically unaltered, since mud matrix more porous, clay + calcite forms as weak vug replacements.

clay as waxy vug fillings

decreasing clay in vug fillings, weak calcite vug fillings instead

| PROJECT: Rosebud JV | | | | | | | UTM: NK 11-10-06 C | | | | | | | NORTHING: | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 13/20 | | | | | | | | | |
|---------------------------------|---------------------------------|---------------------------------|--|--|---|--|--|---|---|---|---------------------------|--------|--------|-----------|----------|-------------------|----|-------|----|----------|--------------|----|----|----|-------------------|----|----|----|-------------|----|----|----|----|----|----|----|----------|---------------------------------|
| LOGD BY: mwb | | | STATE: Nevada County Pershing | | | | EASTING: | | | | | | | BEARING: | | | | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | | | |
| DATE: | | | SEC. | T. | N., E. | ELEVATION: | | | | | | | ANGLE: | | | | | | | DRILLER: | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | STRUCT | ALTERATION/MINERALIZATION | | | | | | | STRAT | | | | | | | SCALE: 1" = 10 ft | S | | | | | | | | | | | | |
| D E P T H F T | R E C / C U T | R L Q U V G T | A M U D H G T U B U F F | M U U R H A O R S T I S F F | P U U R H G A R A L S T I I X V T T A | S U S A N D Y U E E E N I Y O G D M M R P P I L E O N T A R L S E S T E N T A R L O R S | A L I A N H E R O O U I N E I Y O G G L Z L T D O B A R B L Z I O P R K R D E H G G T R R A A N T H | Fe Mn P A A R Q C M B C U B M L W D E I L T R P T H C T H G G T F A A N T H | MIN H L P R R P G G L Z L T D O B A R B L Z I O P R K R D E H G G T F A A N T H | P A A R Q C M B C U B M L W D E I L T R P T H C T H G G T F A A N T H | ALTERATION/MINERALIZATION | STRUCT | STRAT | ANGLE: | DRILLER: | SCALE: 1" = 10 ft | S | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | COMMENTS | A M P L I N T |
| 905 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 910 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 915 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 920 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 925 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 930 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 935 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 940 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 945 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 950 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT: Rosebud JV | | | | | | | | UTM: NK 11-10-06 C | | | | | | | | NORTHING: | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 14/20 | | | | | | | | | | | |
|---------------------|---|---|-----------|-------------------------------|---|----|---|--------------------|---|----|---|------------|----|----|--------|---------------------------|----|----|----|------------|----|----|----|--------------|----|----|----|-------------------|----|----|----|-------------|----|----|----|----|----|----|----|---|---|--|--|
| LOGD BY: MWB | | | | STATE: Nevada County Pershing | | | | EASTING: | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | | | | | | | | | |
| DATE: | | | | SEC. | | T. | | N., | | E. | | ELEVATION: | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | | | | | | STRUCT | ALTERATION/MINERALIZATION | | | | STRAT | | | | D | L | A | S | SCALE: 1" = 10 ft | | | | S | | | | | | | | | | | |
| D | R | R | A | M | L | P | S | A | L | A | I | B | A | R | T | B | G | V | Fe | MIN | P | A | A | R | Q | C | M | B | C | U | B | M | L | W | D | E | I | L | T | A | | | |
| E | E | R | L | U | I | U | U | S | A | U | N | A | N | H | E | R | O | O | M | H | L | P | R | R | P | T | A | E | A | H | R | K | I | O | P | T | T | R | M | | | | |
| P | C | L | D | T | M | R | H | V | T | T | S | D | Y | C | O | U | I | N | E | I | Y | O | G | G | L | Z | L | T | D | O | B | A | R | B | L | Z | T | H | C | P | | | |
| T | / | Q | U | H | G | A | O | R | A | E | O | K | G | D | O | M | M | R | P | 2 | S | V | I | L | E | O | D | Y | P | U | D | E | H | G | G | T | F | A | A | N | I | | |
| H | C | V | C | T | T | F | U | L | U | S | L | B | E | E | X | T | O | I | I | N | T | E | I | L | N | T | A | R | L | O | O | S | F | T | P | P | H | T | N | T | | | |
| F | U | D | U | U | U | U | L | B | S | T | I | I | X | N | T | F | F | O | X | V | T | T | A | T | S | E | S | T | R | S | T | F | T | P | P | H | T | N | T | | | | |
| T | T | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | | | | |

955

960

965

970

975

980

985

990

995

1000

1

2

3

948-975 Hydrothermal fluid breccia?

30% lithics - argillic altered andesite (LBt)
angular with partially corroded, rounded edges wk diss py
70% matrix - tan rock flower v firegrained
wk calcite cement
cut by late 1-3 mm wide pyrite veinlets
+ 3-5 mm calcite veinlets

975-994 same as above. Lithics increasing
argillic alteration

sharp etc. 80° CA w/ 0.25 inch calcite
veinlet @ etc

at purple brown flow breccia (LBt)
0.25 inch calcite veinlet 75° CA
basically unaltered.

| PROJECT: Rosebud JV | | | UTM: NK 11-10-06 C | | | NORTHING: | | | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 15/20 | | |
|---|---|--|--|--|--|---|---|---|---|---|--|-----------|---------------------------|-------|---------------------------------|--|-------------------|--------------------|---|---|-----------------|-------------------|--|--------------------------------------|-------------------------|-----------------|
| LOGD BY: MWB | | | STATE: Nevada County Pershing | | | EASTING: | | | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | |
| DATE: | | | SEC. | T. | N., E. | ELEVATION: | | | | | | | | | | ANGLE: | | | | DRILLER: | | | | S A M P L I N T | | |
| DRILLING | | LITHOLOGY | | | STRUCT | ALTERATION/MINERALIZATION | | | | | | STRAT | | | | | | D | L | A | S | SCALE: 1" = 10 ft | | | | S A M P L I N T |
| D E P T H F T | R E C / Q U V U D | A M L D H G C T U G F M | M U D T H G C T U U F F | P U R M R A O R A U U L S T I I X V T A | S A S A U N A N Y O M M R P I N T E N T E S E S T A | A L A I B A R E R O O M M R P I N T E N T E S E S T A | B G V R O G D E E X T O I 2 S V I L E O D Y P D R R F A A N P P T H H | Fe Mn P A A R Q C M B C U B M L W D E H L T A E A H R K B L Z I O P T H G G T R R R A A N P P T H H | MIN P A A R Q C M B C U B M L W D I O P T H C C G C U D U D E F A A N P P T H H | H L P R R P G G L Z L T D O B A R B L Z I O P T H C C G C U D U D E F A A N P P T H H | N E I Y O G G L Z L T D O B A R B L Z I O P T H C C G C U D U D E F A A N P P T H H | STRUCTURE | ALTERATION/MINERALIZATION | STRAT | D E P T H F T | L I L T R C C G T R R R A A N P P T H H | SCALE: 1" = 10 ft | LITH. EXPLANATION: | MUD CGL LITH TUF PUM TUF SURGE TUF | Mud matrix conglomerate Lithic clast dominant tuff Pumice rich tuff Bedded matrix rich lithic tuff | S A M P L I N T | | | | | |
| 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 | | | | | | | | | | | | | | | | | | | | | | | | COMMENTS | | |
| 1005 | | | | | | | | | | | | | | | | | | | | | | | | DK purple brown andesite flow brcia. | | |
| 1010 | | | | | | | | | | | | | | | | | | | | | | | | 0.5 inch calcite 25°C A | 0.5 inch calcite 60°C A | |
| 1015 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1020 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1025 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1030 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1035 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1040 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1045 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1050 | | | | | | | | | | | | | | | | | | | | | | | | | | |

GRADATIONAL CTC 1032-1034
mostly weak perw. arg. attr.

1034 - Hydrothermal fluid brcia?
60% frags. 40% matrix 1034-1036

1036-1048 70% matrix fine rock flour
w/min prop attr. + wwk arg. + wkcaco3
30% frags angular most arg
attr. prob LBT.

? silica flooded, stronger
shear 60°C A
foot shears py in veinlets
shear 60°C A
cts but weak overall

| PROJECT: Rosebud JV | | | | | | | UTM: NK 11-10-06 C | | | | | | | NORTHING: | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 16/20 | | | | | | | | | | | |
|---------------------|---|---|-------------------------------|---|-----|----|--------------------|---|---|--------|---|---------------------------|----|-----------|----|----|----|----|-------|-----|--------------|----|----|----|--------------|----|----|----|-------------|-------------------|--|----------|----|----|-----------|----|---------|----|---------|--------------------|
| LOGD BY: mwB | | | STATE: Nevada County Pershing | | | | EASTING: | | | | | | | BEARING: | | | | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | | | | | |
| DATE: | | | SEC. | T | N., | E. | ELEVATION: | | | | | | | ANGLE: | | | | | | | DRILLER: | | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | STRUCT | | ALTERATION/MINERALIZATION | | | | | | | STRAT | | | | | | | D | L | A | S | SCALE: 1" = 10 ft | S A M P L I N T | | | | | | | | | |
| D | R | R | A | M | L | P | S | A | L | A | I | B | A | R | T | B | G | V | Fe | MIN | P | A | A | R | Q | C | M | B | C | U | B | M | L | W | D | E | I | L | T | LITH. EXPLANATION: |
| E | E | R | L | U | I | U | U | S | A | U | N | A | N | H | E | R | O | O | M | H | L | P | R | R | R | T | A | E | A | H | R | K | I | O | P | T | T | R | MUD CGL | |
| P | C | L | D | T | M | R | H | V | T | T | S | D | Y | C | O | U | I | N | E | I | Y | O | G | G | L | Z | L | T | D | O | B | A | R | B | L | Z | T | H | C | LITH TUF |
| T | / | Q | U | H | G | A | O | R | A | E | O | K | G | D | O | M | M | R | P | 2 | S | V | I | L | E | O | D | Y | P | D | R | R | H | G | G | T | PUM TUF | | | |
| H | C | V | C | T | T | F | U | U | L | B | S | T | I | I | X | N | I | N | T | 1 | N | T | A | R | L | O | O | R | S | F | A | A | N | T | SURGE TUF | | | | | |
| F | U | D | U | G | U | U | U | L | B | S | T | I | I | X | N | T | E | L | S | E | S | T | R | R | S | T | P | P | T | H | H | COMMENTS | | | | | | | | |
| T | T | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | |

1045

1050

1055

1060

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1070

1075

1080

1085

1090

1095

1100

| PROJECT: Rosebud JV | | | UTM: NK 11-10-06 C | | | NORTHING: | | | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 18/20 | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------|---|---|-------------------------------|----|--------|------------|---|---|--------|---|---------------------------|----|----|----|----|--------------|-------|----|----|------------|----|----|----|--|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|
| LOGD BY: MWB | | | STATE: Nevada County Pershing | | | EASTING: | | | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | | | | | | | | | | | | | |
| DATE: | | | SEC. | T. | N., E. | ELEVATION: | | | | | | | | | | ANGLE: | | | | DRILLER: | | | | S A M P L I N T | | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | STRUCT | | ALTERATION/MINERALIZATION | | | | | | STRAT | | | | D | L | A | S | SCALE: 1" = 10 ft LITH. EXPLANATION: MUD CGL Mud matrix conglomerate LITH TUF Lithic clast dominant tuff PUM TUF Pumice rich tuff SURGE TUF Bedded matrix rich lithic tuff | | | | | | | | | | | | | | | | | | | | | | |
| D | R | R | A | M | L | P | S | A | L | A | I | B | A | R | T | B | G | V | Fe | MIN | P | A | A | R | Q | C | M | B | C | U | B | M | L | W | D | | | | | | | | | | | | |
| E | E | R | L | U | I | U | U | S | A | U | N | A | N | H | E | R | O | O | M | H | L | P | R | R | P | T | A | E | A | H | R | K | I | O | P | T | T | R | T | S | A | | | | | | |
| P | C | L | D | T | M | R | H | V | T | T | S | D | Y | C | O | U | I | N | E | I | Y | O | G | G | L | Z | L | T | D | O | B | A | R | B | L | Z | T | H | C | P | L | I | | | | | |
| T | / | Q | U | H | G | A | O | R | A | E | O | K | G | D | O | M | M | R | P | 2 | S | V | I | L | E | O | D | Y | P | D | R | R | H | G | G | T | F | A | A | N | T | N | | | | | |
| H | C | V | C | T | T | F | U | L | U | S | L | B | S | T | I | I | X | N | I | N | T | A | R | L | O | R | S | R | O | O | F | T | P | P | T | H | H | H | I | | | | | | | | |
| F | U | D | U | G | U | U | U | L | B | S | T | I | I | X | N | T | E | T | L | S | E | S | T | 2 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | D | E | I | L | T | A | | | | | | | | |
| T | T | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | S | A | M | P | L | I | N | T |

Comments:

1155 -

1160 -

1165 -

1170 -

1175 -

1180 -

1185 -

1190 -

1195 -

1200 -

GRADATIONAL LAYER

1172 - Hydrothermal fluid bxs? pyrite diss in matrix + fragments 60% matrix - tan rock flower + w/ leachy 40% fragments - many appear silica flooded more silica flooded matrix @ 1178 1179 crush zone 2" w 50°C A 1180-82 vugs in brown w/ d-qtet coarse pyrite strongly laminated v. fine grained flow bxs @ 1182 not marked by distinctive sharp point → gradational entire unit wk CaCO₃ cut by CaCO₃ veinlet

| PROJECT: Rosebud JV | | | | UTM: NK 11-10-06 C | | | | | | | | NORTHING: | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 19/20 | | | | | | | | | |
|---------------------------------|---------------------------------|---------------------------------|--------------------------------------|---------------------------------|---------------------------------|--------------------------------------|--------------------------------------|--|---|--|--|--|--|--|---------------------------------|---|---------------------------------|---|---------------------------------|---|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|--|---------------------------------|----|----|----|----|----------|
| LOGD BY: MWB | | | | STATE: Nevada County Pershing | | | | | | | | EASTING: | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | |
| DATE: | | | | SEC. | T. | N., | E. | ELEVATION: | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | | STRUCT | | ALTERATION/MINERALIZATION | | | | | | | | STRAT | | | | D | L | A | S | SCALE: 1" = 10 ft | | | | S | | | | |
| D E P T H F T | R E C / C U T | R U Q D U G T | A M L D H U G M | M U U U H F F | P U U U R F O | S A S T S T X V | A L R T S L B I | A U N R A E O T D Y C O U I E O R A E E I X T O I N T E | B A R O D G D O M M R P G L Z L T D O B A R B L Z C C G C U D Y P D R R O O R S T | G V O O R P G G L I L E O D Y P D R R O O R S T | F e M i n P a A R Q C M B C U B M L W D | M H L P R R P G L Z L T D O B A R B L Z C C G C U D Y P D R R O O R S T | A R P R P G L I L E O D Y P D R R O O R S T | A R P R P G L I L E O D Y P D R R O O R S T | I L A R L T T | E A H R K R K U D Y P D R R O O R S T | I L A R L T T | E A H R K R K U D Y P D R R O O R S T | I L A R L T T | E A H R K R K U D Y P D R R O O R S T | E P T T T R H C G G T | I L A R L T T | L T R C G G T | T R H C G G T | LITH. EXPLANATION: MUD CGL Mud matrix conglomerate LITH TUF Lithic clast dominant tuff PUM TUF Pumice rich tuff SURGE TUF Bedded matrix rich lithic tuff | A M P L I N T | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | COMMENTS |
| 1205 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1210 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1220 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1225 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1230 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1235 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1240 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1245 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| PROJECT: Rosebud JV | | | | | | | | UTM: NK 11-10-06 C | | | | | | | | NORTHING: | | | | | | | | TOTAL DEPTH: | | | | STARTED: | | | | PAGE: 20/20 | | | | | | | | | | | | | | |
|---------------------|---|---|-----------|-------------------------------|---|---|---|--------------------|---|----|---|------------|---|---|--------|---------------------------|---|---|----|------------|---|---|---|--------------|----|----|----|-------------------|----|----|----|-------------|----|----|----|----|----|----|----|----|----|----|----|----|---|---|
| LOGD BY: MWB | | | | STATE: Nevada County Pershing | | | | EASTING: | | | | | | | | BEARING: | | | | COMPLETED: | | | | HOLE # RL-92 | | | | | | | | | | | | | | | | | | | | | | |
| DATE: | | | | SEC. | | T | | N., | | E. | | ELEVATION: | | | | | | | | ANGLE: | | | | DRILLER: | | | | | | | | | | | | | | | | | | | | | | |
| DRILLING | | | LITHOLOGY | | | | | | | | | | | | STRUCT | ALTERATION/MINERALIZATION | | | | STRAT | | | | D | L | A | S | SCALE: 1" = 10 ft | | | | S | | | | | | | | | | | | | | |
| D | R | R | A | M | L | P | S | A | L | A | I | B | A | R | T | B | G | V | Fe | MIN | P | A | A | R | Q | C | M | B | C | U | B | M | L | W | D | A | | | | | | | | | | |
| E | E | R | L | U | I | U | U | S | A | U | N | A | N | H | E | R | O | O | M | H | L | P | R | R | P | T | A | E | A | H | R | K | I | O | P | | | | | | | | | | | |
| P | C | L | D | T | M | R | H | V | T | T | S | D | Y | C | O | U | I | N | E | I | Y | O | G | G | L | Z | L | T | D | O | B | A | R | B | L | T | | | | | | | | | | |
| T | / | Q | U | H | G | A | O | R | A | E | O | K | G | D | O | M | M | R | P | 2 | S | V | I | L | E | O | D | Y | P | U | D | E | H | G | G | T | | | | | | | | | | |
| H | C | V | C | T | T | F | U | L | S | L | B | E | E | X | T | O | I | I | N | T | E | I | N | T | A | R | L | O | O | R | R | F | A | A | N | I | | | | | | | | | | |
| F | U | D | U | U | U | U | L | B | S | T | I | I | X | N | T | E | L | S | E | S | T | R | R | S | T | 31 | 32 | 33 | 34 | 35 | 36 | 37 | P | P | T | | | | | | | | | | | |
| T | T | M | L | F | F | F | O | X | V | T | T | A | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | H | H |

COMMENTS

1255

1260

1265

1270

1275

1280

1281

Fine grained orthoc. non-calcareous
veinlets pervasive w/ local py

Buccia 1256-1257 non-tecton, no calcite no limation

Black argillite w/ clay rich veinlets
non-calcareous

EOH 1281

RL-92

6-3-90

10F6

RC to 290' (sampled to 295'-300')

| <u>Recovery</u> | <u>%</u> | <u>Sample</u> | <u>Lithology</u> |
|------------------------|-----------------|-----------------|-------------------------|
| <u>Footage</u> | <u>Recovery</u> | <u>Interval</u> | |
| 290 - 299 | 9/9 ~100% | 290 - 295 | 290 - 322 |
| 299 - 302 | 3.4/3 | 295 - 300 | wht - lt grn, FGT |
| 302 - 312 | 93% | 300 - 304.2 | local bx, local calcite |
| 312 - 322 | 99% | 304.2 - 310 | wns to massive |
| 322 - 332 | 102% | 310 - 315 | |
| 332 - 342 | 98% | 315 - 320 | 323.4 - 429.8 |
| 342 - 352 | 102% | ✓ 323.4 - 327 | mmoon, Fragmental |
| 352 - 362 | 102% | 327 - 332 | w/red, hematitic matrix |
| 362 - 372 | 100%+ | 332 - 337 | 396 - 397.2 |
| 372 - 382 | 100%+ | 337 - 342 | H grn, blc, fm H / bx |
| 382 - 392 | 100% | 342 - 347 | 413.9 - 418.5 |
| 392 - 402 | 104% | 347 - 352 | blc, H grn FGT 3 am |
| 402 - 409 | 7.4 / 7 | 352 - 357 | 429.8 - 437 |
| 409 - 419 | 100% | 357 - 362 | H grn, FGT + Frst |
| 419 - 429 | 103% | 362 - 367 | 3m; stg calcite |
| 429 - 437 [±] | 7.2 / 8.5 | 367 - 372 | 437- |
| 437 [±] - 448 | 10 / 10.5 | 372 - 377 | 97, grn, FGT |
| 448 - 458 | 103% | 377 - 382 | local Fract |
| 458 - 468 | 102% | 382 - 387 | |
| 468 - | | 387 - 392 | 453.8 - 461.5 |
| (2.8) | | 392 - 396 | H grn, blc |
| | | ✓ 396 - 397.2 | local sly finebed |
| | | ✓ 397.2 - 402 | + peral vlt. |
| | | ✓ 402 - 407 | 1409.6 - |
| | | ✓ 407 - 413.9 | |
| | | ✓ 413.9 - 418.5 | H grn, blc FGT |
| | | ✓ 418.5 - 424 | local bx, local |
| | | ✓ 424 - 429.0 | calcite w/ wavy |
| | | ✓ 429.8 - 434.5 | + local blc to H grn |
| | | ✓ 434.5 - 437 | |
| | | ✓ 437 - 441.2 | |
| | | ✓ 441.2 - 445 | |
| | | 445 - 449 | |
| | | 449 - 453.8 | |
| | | 453.8 - 458 | |

RL-92

| <u>Recovery</u> | <u>%</u> |
|-----------------|-----------------|
| <u>footage</u> | <u>Recovery</u> |
| 468 - 478 | 100% + |
| 478 - 483 | 90% |
| 488 - 494 | 5.5% |
| 494 - 500 | 100% |
| 500 - 510 | 100% + |
| 510 - 520 | 107% |
| 520 - 530 | 104% |
| 530 - 540 | 98% |
| 540 - 550 | 104% |
| 550 - | |

(8.5)

| <u>Sample</u> | <u>Lithology</u> |
|-----------------|------------------|
| <u>Interval</u> | |
| 458 - 461.5 | |
| 461.5 - 465.5 | |
| ✓ 469.6 - 475 | 469.6 - |
| 475 - 480 | FGT |
| 480 - 483 | |
| 483 - 485 | |
| 485 - 488 | |
| 488 - 493 | |
| 493 - 495 | |
| 495 - 500 | |
| 500 - 501 | |
| 501 - 506 | |
| 506 - 510 | |
| 510 - 515 | |
| 515 - 520 | |
| 520 - 522.2 | |
| 522.2 - 526.6 | |
| 526.6 - 530 | |
| 530 - 535 | |
| 535 - 538 | |
| 538 - 542 | |
| 542 - 545 | |
| 545 - 550 | |
| ✓ 550 - 551 | |
| ✓ 551 - 553.7 | |
| ✓ 553.7 - 559 | |

488 - 499.5

Fruit + Zoned

530 - 535500 - 501 Fruit gneiss

526.6 - 530

ferruginous? possibly

1 fm, b/c FGT

RL-92

Recovery
footage%
Recovery

| | |
|---------------|--------------------|
| 550 - 560.5 | 9.9 / 10.5 = 94% |
| 560.5 - 570.5 | 100% |
| 570.5 - 581 | 10.3 / 10.5 = 98% |
| 581 - 591.5 | 10.5 / 10.5 = 100% |
| 591.5 - 602 | 10 / 10.5 = 95% |
| 602 - 612 | 103% |
| 612 - 621 | 9.5 / 9 = 106% |
| 621 - 628 | 7.3 / 7 = 104% |
| 628 - 632 | 4 / 4 = 100% |
| 632 - 642 | 103% |
| 642 - 652 | 98% |
| 652 - 662 | 103% |
| 662 - 672 | 102% |
| 672 - 682 | 94% |
| 682 - 687 | 4.3 / 5 = 86% |
| 687 - 693 | 6.4 / 6 = 107% |
| 693 - 702 | 8.8 / 9 = 98% |
| 702 - 712 | 102% |
| 712 - 722 | 100% |
| 722 - 732 | 95% |
| 732 - 742 | 98% |
| 742 - 752 | 100% + |
| (7.4) 752 - | |

RecoverySample
Interval

| |
|---------------|
| 559 - 562.2 |
| 562.2 - 565 |
| 565 - 570 |
| 570 - 575 |
| 575 - 580 |
| 580 - 585 |
| 585 - 590 |
| 590 - 595 |
| 595 - 600 |
| 600 - 605 |
| 605 - 610 |
| 610 - 615 |
| 615 - 620 |
| 620 - 625 |
| 625 - 629 |
| 629 - 635 |
| 635 - 640 |
| 640 - 645 |
| 645 - 650 |
| 650 - 652.2 |
| 652.2 - 656 |
| 656 - 660.5 |
| 660.5 - 665.5 |
| 665.5 - 670 |
| 670 - 675 |
| 675 - 680 |
| 680 - 685 |
| 685 - 690 |
| 690 - 695 |
| 695 - 700 |
| 700 - 705 |
| 705 - 710 |
| 710 - 715 |
| 715 - 720 |
| 720 - 725 |
| 725 - 730 |
| 730 - 735 |

3 of 6

Lithology

469.6 - 750
FGT, red-brown, grn
local blc, mod
fract.559 - 575
FGT, red-brown - , m
stg local blc
~617 - 629

FGT, wk fract.

629 - 665.5
FGT, grn - grn, blc
w/high angle fract.652.2 - 660.5
stg Front, rechnk
front zone665.5 - 750
red brown FGT
wk local blc,
+ stg, local, hnt.
blc zones750 - 766
wht, peral blc
zone755 - 766
stg clg, front
zone, blc, peral
+ grn clg

RL-92

6-13-90

Recovery
Footage%
Recovery

40f6

Lithology

752 - 762 98%

762 - 772 104%

772 - 782 100%

782 - 792 102%

792 - 802 100% +

802 - 812 105%

812 - 822 100%

822 - 832 100% +

832 - 842 100%

842 - 852 100% +

852 - 862 100%

862 - 872 100%

872 - 882 (4.7+) / 100%

882 - 892 100%

892 - 902 104%

902 - 912 100% +

912 - 922 95%

922 - 932 (10') / 100% +

Sample
Interval

735 - 740

740 - 745

745 - 750

750 - 755

755 - 760 ✓

760 - 763

763 - 766

766 - 770

770 - 775

775 - 780

780 - 785

785 - 790

790 - 795

795 - 800

800 - 805

805 - 810

810 - 815

815 - 820

820 - 825

825 - 830

830 - 835

835 - 840

840 - 845

845 - 850

850 - 855

855 - 860

860 - 865

865 - 870

870 - 875

875 - 880 ✓

880 - 885

885 - 890

890 - 895

895 - 900

900 - 905

905 - 910

910 - 915

915 - 920

920 - 925

925 - 930

930 - 935

RL-92 6-14-90

5 of 6

Recovery
Footage

%
Recovery

| | |
|-------------|------------------|
| 932 - 942 | 100% |
| 942 - 950 | 8.7 / 8 = 109% |
| 950 - 955 | 4.1 / 5 = 94% |
| 955 - 962 | 5.6 / 7 = 80% |
| 962 - 972 | 99% |
| 972 - 982 | 100% |
| 982 - 992 | 99% |
| 992 - 1002 | 102% |
| 1002 - 1012 | 98% |
| 1012 - 1022 | 102% |
| 1022 - 1032 | 97% |
| 1032 - 1042 | 102% |
| 1042 - 1052 | 98% |
| 1052 - 1062 | 98% |
| 1062 - 1072 | 100% |
| 1072 - 1082 | 100% |
| 1082 - | (8.5 + 1.5) 100% |

Sample
Interval

| | |
|---------------|---|
| 920 - 925 | |
| 925 - 930 | |
| 930 - 935 | 938 - 944.6 |
| 935 - 938 | dk gm, wk blc, local bx + GT, welded |
| 938 - 941 | w/ calcs |
| 941 - 944.6 | 944.6 - 948.5 |
| 944.6 - 948.5 | Fault zone |
| 948.5 - 951 | reheated |
| 951 - 955 | w/ sulfides |
| 955 - 960 | 965 |
| 970 | 948.5 - 994.1 |
| 975.3 | wht-parch, blc, GT local sh. bx |
| 975.3 - 977.7 | 975.3 - 977.7 |
| 977.7 - 982 | sh. clay zone |
| 982 - 986.4 | w/ sulfide inns |
| 986.4 - 989 | 986.4 - 989 |
| 989 - 994.1 | 989 - 994.1 |
| 994.1 - 1000 | 1000 - 1005 |
| 1005 - 1010 | 1005 - 1010 |
| 1010 - 1015 | 1010 - 1015 |
| 1015 - 1020 | 1015 - 1020 |
| 1020 - 1025 | 1020 - 1025 |
| 1025 - 1029 | 1025 - 1029 |
| 1029 - 1032.8 | 1029 - 1032.8 |
| 1032.8 - 1035 | 1032.8 - 1110.2 |
| 1035 - 1036.7 | red, brown, welded fragm?? |
| 1036.7 - 1040 | fragm TUFF - fragm? |
| 1040 - 1046 | blc, sh. bx |
| 1046 - 1050 | 1035 - 1036.7 |
| 1050 - 1055 | fault zone + silic |
| 1055 - 1060 | 1046 - 1110.2 |
| 1060 - 1065 | Fault zone + silic |
| 1065 - 1070 | |
| 1070 - 1075 | |
| 1075 - 1080 | |

RL-92

6.0F6

Recovery
Footage

%
Recovery

Sample
Interval

Lithology

| | | | |
|--------------------------|--------------------------|-----------------------------|--------------------------|
| 1082-1097 | 100% | 1080-1085 | 1110.2 - 1165 |
| 1092 - 1098 | $5.6/7 = 80\%$ | 1085 - 1090 | ref-brown, FG7 |
| 1098 - 1105 | $6.8/7 = 97\%$ | 1090 - 1095 ✓ | welded to fragment? |
| 1115 | 102% | 1095 - 1100 | local breccia |
| 1125 | .99% | 1100 - 1105 | |
| 1135 | 105% | 1105 - 1111.2 | |
| 1135- 1142 | $6.6/7 = 94\%$ | 1111.2 - 1115 | 1165 - 1245 - 4 |
| 1152 | 99% | 1115 - 1120 | Hgry - gran, blc |
| 1162 | 100% | 1120 - 1125 | FG7 alt |
| 1172 | 100%+ | 1125 - 1130 | |
| 1182 | 100% | 1130 - 1135 | |
| 1192 | 99% | 1135 - 1140 | |
| 1202 | 100% | 1140 - 1145 | |
| 1202 - 1210 | $7.8/8 = 98\%$ | 1145 - 1150 | |
| 1210 - 1220 ⁵ | $10.2/10.5 = 97\%$ | 1150 - 1155 | |
| 1220 ⁵ - 1231 | $10.3/10.5 = 98\%$ | 1155 - 1160 ✓ | |
| 1231 - 1240 | $(7.1 + 9.2)/9 = 100\%+$ | 1160 - 1165 | |
| 1240 - 1250 | 92% | 1165 - 1170 | |
| 1250 - 1260 | 92% | 1170 - 1172 | |
| 1260 - 1271 | 103% | 1172 - 1175 | |
| 1271 - 1281 TD | 102% | 1175 - 1180 | |
| | | 1180 - 1184 | |
| | | 1184 - 1190 | |
| | | 1190 - 1195 | 1245.4 - 1255 |
| | | 1195 - 1200 | It gry FG7 |
| | | 1200 - 1205 | wk gry sulfidic |
| | | 1205 - 1210 | |
| | | 1210 - 1215 | |
| | | 1215 - 1220 | contact bx |
| | | 1220 - 1225 | contact alt |
| | | 1225 - 1230 | |
| | | 1230 - 1235 | |
| | | 1235 - 1240 | 1255 - 1257 ⁵ |
| | | 1240 - 1245.4 | contact bx |
| | | 1245.4 - 1250 | contact alt |
| | | 1250 - 1255 | |
| | | 1255 - 1257.5 | |
| | | 1257 ⁵ - 1281 TD | |
| | | Jr shale, stg | |
| | | bx stg silic | |
| 1275 - 1278 | 1278 - 1281 | | |

TWINDATA.XLS

| | 1032.8 | 1111.2 | | | | | | | | Vol/Bleached Red Bwn Tuff | buff-flesh,local sage gn |
|-------|--------|--------|-------------|--------|--------|-----|-------|------|---------------------------------------|-----------------------------|--------------------------|
| RL92C | 1032.8 | 1035 | 0 | 0 | 0 | 1 | 0 | 0 | Volc/very little alt/FGT | " | " |
| RL92C | 1035 | 1036.7 | 0 | 0 | 0 | 1 | 0 | 0 | " | " | " |
| RL92C | 1036.7 | 1040 | 0 | 0 | 0 | 1 | 0 | 0 | " | " | " |
| RL92C | 1040 | 1046 | 0 | 0 | 0 | 1 | 0 | 0 | " | " | " |
| RL92C | 1046 | 1050 | 4 | 0.038 | 0.038 | 1 | 0.038 | 1303 | ", mod sx,3" vein/clay/sx | " | " |
| RL92C | 1050 | 1055 | 0 | 0.011 | 0.011 | 1 | 0.011 | 377 | ".some bx, crackle-auto | " | " |
| RL92C | 1055 | 1060 | 0 | 0.004 | 0.004 | 1 | 0.004 | 137 | ".some bx, crackle-auto | " | " |
| RL92C | 1060 | 1065 | 0 | 0.005 | 0.005 | 1 | 0.005 | 171 | ",2" sx/clay vein | " | " |
| RL92C | 1065 | 1070 | 0 | 0.001 | 0.001 | 1 | 0.001 | 34 | ".some bx, crackle-auto | " | " |
| RL92C | 1070 | 1075 | 0 | 0.012 | 0.012 | 1 | 0.012 | 411 | ".some bx, crackle-auto | " | " |
| RL92C | 1075 | 1080 | 0 | 0.003 | 0.003 | 1 | 0.003 | 103 | ".some bx, crackle-auto | " | " |
| RL92C | 1080 | 1085 | 0 | 0 | 0 | 1 | 0 | 0 | ".some bx, crackle-auto | " | " |
| RL92C | 1085 | 1090 | 0 | 0.001 | 0.001 | 1 | 0.001 | 34 | " | " | " |
| RL92C | 1090 | 1095 | 0 | 0 | 0 | 1 | 0 | 0 | " | " | " |
| RL92C | 1095 | 1100 | 0 | 0 | 0 | 1 | 0 | 0 | " | " | " |
| RL92C | 1100 | 1105 | 0 | 0.009 | 0.009 | 1 | 0.009 | 309 | " | " | " |
| RL92C | 1105 | 1111.2 | 0 | 0 | 0 | 1 | 0 | 0 | " | " | " |
| RL92C | 1111.2 | 1115 | 0 | 0 | 0 | 1 | 0 | 0 | Volc/very little alt/FGT | fine frac/hem selvages | |
| HOLE# | FROM | TO | FEET | AU AVG | AU SUM | SAM | AU1 | AU2 | | | |
| RL92C | 1115 | 1140 | 5 ft interv | 0 | 0 | 1 | 0 | | Volc/very little alt/FGT | fine frac/hem selvages | |
| RL92C | 1140 | 1160 | 5 ft interv | 0 | 0 | 1 | 0 | | Vol/Unaltered Red Brwn FGT | Red Bwn | |
| RL92C | 1160 | 1165 | 0 | 0 | 0 | 1 | 0 | | | " | |
| RL92C | 1165 | 1168 | 0 | 0 | 0 | 1 | 0 | | Vol/Altered FGT | Buff-lght Flesh | |
| RL92C | 1168 | 1172 | 0 | 0 | 0 | 1 | 0 | | Vol/Altered FGT | Buff-lght Flesh | |
| RL92C | 1172 | 1175 | 0 | 0.001 | 0.001 | 1 | 0.001 | 34 | Vol/alt FGT/bleached/clay alt | Buff-light Flesh | |
| RL92C | 1175 | 1180 | 0 | 0.003 | 0.003 | 1 | 0.003 | 103 | Fault/Py/clay | as above sx Bx, wh kaolinit | |
| RL92C | 1180 | 1184 | 0 | 0.012 | 0.012 | 1 | 0.012 | 411 | Vol/alt FGT/blch/cl alt/vein/sulfides | as above fract banding | |
| RL92C | 1184 | 1190 | 0 | 0.039 | 0.039 | 1 | 0.039 | 1337 | | | |
| RL92C | 1190 | 1195 | 0 | 0 | 0 | 1 | 0 | 0 | Vol/alt FGT/bleached/clay alt | as above fract banding | |
| RL92C | 1195 | 1200 | 0 | 0 | 0 | 1 | 0 | 0 | Vol/alt FGT/bleached/clay alt | as above fract banding | |
| RL92C | 1200 | 1205 | 0 | 0 | 0 | 1 | 0 | 0 | Vol/alt FGT/bleached/clay alt | decrease bleach | |
| RL92C | 1205 | 1210 | 0 | 0 | 0 | 1 | 0 | 0 | Vol/alt FGT/less altered | decrease bleach | |
| RL92C | 1210 | 1215 | 0 | 0 | 0 | 1 | 0 | 0 | Vol/alt FGT/less altered | decrease bleach | |
| RL92C | 1215 | 1220 | 0 | 0.029 | 0.029 | 1 | 0.029 | 994 | Vol/ FGT/ altered sx, clay/sulfides | decrease bleach | |
| RL92C | 1220 | 1225 | 0 | 0.003 | 0.003 | 1 | 0.003 | 103 | Vol/ FGT/ altered sx, clay/sulfides | buff-wk flesh colour | |
| RL92C | 1225 | 1230 | 0 | 0.005 | 0.005 | 1 | 0.005 | 171 | Vol/ FGT/ altered sx, clay/sulfides | buff-wk flesh colour | |
| RL92C | 1230 | 1235 | 0 | 0.01 | 0.01 | 1 | 0.01 | 343 | Vol/ FGT/ altered sx, clay/sulfides | buff-wk flesh colour | |

TWINDATA.XLS

| RL92C | 1235 | 1240 | 0 | 0.018 | 0.018 | 1 | 0.018 | 617 | | Fault/SRF | | | as above sx Bx, wh kaolinit |
|--|--------|--------|------|--------|--------|-----|---------|--------|----------|--------------|--|--|-----------------------------|
| FAR NORTH / SRF ZONE (Sec1800 N & 1750NW) | | | | | | | | | | | | | |
| HOLE# | FROM | TO | FEET | AU AVG | AU SUM | SAM | AU1/GSI | Au ppb | Au * Wth | | | | |
| RL92C | 1240.0 | 1245.4 | 5.4 | 0.093 | 0.093 | 1 | 0.093 | 3189 | 0.502 | Fault/SRF | | | as above sx Bx, wh kaolinit |
| RL92C | 1245.4 | 1250.0 | 4.6 | 0.015 | 0.015 | 1 | 0.015 | 514 | 0.069 | Tran Seds/SS | | | gray-tan arkosic s.s. |
| RL92C | 1250.0 | 1255.0 | 5.0 | 0.023 | 0.023 | 1 | 0.023 | 789 | 0.115 | Tran Seds/SS | | | gray-tan arkosic s.s. |
| RL92C | 1255.0 | 1257.5 | 2.5 | 0.107 | 0.107 | 1 | 0.107 | 3669 | 0.268 | Tran Seds/SS | | | gray-tan arkosic s.s. |
| | 1240.0 | 1257.5 | 17.5 | 0.054 | | | | | 0.954 | | | | |
| RL92C | 1257.5 | 1265.0 | 7.5 | 0.008 | 0.008 | 1 | 0.008 | 274 | | Jr Seds | | | black shales |
| RL92C | 1265.0 | 1270.0 | 5.0 | 0.049 | 0.049 | 1 | 0.049 | 1680 | | Jr Seds | | | black shales |
| RL92C | 1270.0 | 1275.0 | 5.0 | 0.009 | 0.009 | 1 | 0.009 | 309 | | Jr Seds | | | black shales |
| RL92C | 1275.0 | 1278.0 | 3.0 | 0.009 | 0.009 | 1 | 0.009 | 309 | | Jr Seds | | | black shales |
| RL92C | 1278.0 | 1281.0 | 3.0 | 0.005 | 0.005 | 1 | 0.005 | 171 | | Jr Seds | | | black shales |

| | SAMPLE I.D. | | Au o/t | Ag o/t |
|-----|-------------|--------|-----------|-----------|
| 35. | RL-95C | 1020 | 0.001 | -0.10 |
| 36. | RL-95C | 1025 | 0.001 | -0.10 |
| 37. | RL-95C | 1030 | 0.006 | -0.10 |
| 38. | RL-95C | 1035 | 0.001 | -0.10 |
| 39. | RL-95C | 1040 | 0.001 | -0.10 |
| 40. | RL-95C | 1045 | 0.002 | -0.10 |
| 41. | RL-95C | 1050 | 0.001 | -0.10 |
| 42. | RL-95C | 1055 | 0.001 | -0.10 |
| 43. | RL-95C | 1060 | 0.001 | -0.10 |
| 44. | RL-95C | 1065 | 0.001 | -0.10 |
| 45. | RL-95C | 1070 | 0.002 | -0.10 |
| 46. | RL-95C | 1075 | 0.002 | 0.12 |
| 47. | RL-95C | 1079 | 0.002 | -0.10 |
| 48. | RL-95C | 1083.7 | 0.001 | -0.10 |
| 49. | RL-95C | 1085 | 0.001 | -0.10 |
| 50. | RL-95C | 1090 | 0.001 | -0.10 |
| 51. | RL-95C | 1095 | 0.001 | -0.10 |
| 52. | RL-95C | 1100 | 0.003 | 0.20 |
| 53. | RL-95C | 1102 | 0.001 | -0.10 |
| 54. | RL-95C | 1105 | 0.001 | -0.10 |
| 55. | RL-95C | 1110 | 0.001 | 0.12 |
| 56. | RL-95C | 1115 | 0.002 | 0.12 |
| 57. | RL-95C | 1120 | 0.001 | 0.10 |
| 58. | RL-95C | 1125 | 0.001 | -0.10 |
| 59. | RL-95C | 1130 | 0.001 | -0.10 |
| 60. | RL-95C | 1135 | 0.001 | -0.10 |
| 61. | RL-95C | 1140 | 0.001 | -0.10 |
| 62. | RL-95C | 1145 | 0.001 | 0.17 |
| 63. | RL-95C | 1150 | 0.001 | 0.13 |
| 64. | RL-95C | 1155 | 0.004 | 0.18 |
| 65. | RL-95C | 1160 | 0.001 | 0.11 |
| 66. | RL-95C | 1165 | 0.001 | -0.10 |
| 67. | RL-95C | 1170 | 0.001 | -0.10 |
| 68. | RL-95C | 1175 | 0.001 | -0.10 |
| 69. | RL-95C | 1180 | 0.001 | -0.10 |
| 70. | RL-95C | 1185 | 0.001 | -0.10 |
| 71. | RL-95C | 1190 | 0.001 | -0.10 |
| 72. | RL-95C | 1192.6 | 0.014 | -0.10 |
| 73. | RL-95C | 1193.1 | 0.001 | -0.10 |
| 74. | RL-95C | 1195 | 0.001 | -0.10 |
| 75. | RL-95C | 1200 | 0.002 | -0.10 |
| 76. | RL-95C | 1205 | 0.001 | -0.10 |
| 77. | RL-95C | 1210 | 0.001 | -0.10 |
| 78. | RL-95C | 1215 | 0.001 | -0.10 |
| 79. | RL-95C | 1220 | 0.001 | -0.10 |
| 80. | RL-95C | 1225 | 0.001 | -0.10 |
| 81. | RL-95C | 1230 | 0.001 | -0.10 |
| 82. | RL-95C | 1235 | 0.001 | -0.10 |
| | | 1240 | 0.001 | -0.10 |

| | SAMPLE I.D. | | | Au o/t | Ag o/t |
|-----|-------------|--------|--------|-----------|-----------|
| 83. | RL-95C | 1240 | 1244.4 | 0.001 | -0.10 |
| 84. | RL-95C | 1244.4 | 1250 | -0.001 | -0.10 |
| 85. | RL-95C | 1250 | 1252.7 | -0.001 | 0.15 |
| 86. | RL-95C | 1252.7 | 1253.4 | -0.001 | -0.10 |
| 87. | RL-95C | 1253.4 | 1255.5 | -0.001 | 0.34 |
| 88. | RL-95C | 1255.5 | 1259 | -0.001 | 0.15 |
| 89. | RL-95C | 1259 | 1260.8 | -0.001 | 0.11 |
| 90. | RL-95C | 1260.8 | 1265 | -0.001 | -0.10 |
| 91. | RL-95C | 1265 | 1270 | -0.001 | -0.10 |

.....
This report reviewed and approved by:

Richard A. Grondin
Richard Grondin, Laboratory Director

NEVADA



JUN 20 1990

GEOCHEMICAL ANALYSIS REPORT

June 20, 1990

CUST. CODE: LOA
 PROJECT: URBD-79014
 P.O. #: XXXX
 LOT ID: 7491

GEOLOGIST: NATE BREWER
 COPIES TO: KRISTEN KENNER AND KEN TULLAR
 COMPANY: LAC MINERALS
 ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.
 FIRE ASSAY FOR GOLD, WITH AN A.A. FINISH. (CHECKS)

| | SAMPLE | I.D. | Checks | | |
|-----|--------|------|-----------|-----------|-----------|
| | | | Au o/t | Ag o/t | Au o/t |
| 1. | RL-92 | 5 | 0.009 | 0.25 | — |
| 2. | RL-92 | 10 | -0.001 | 0.20 | — |
| 3. | RL-92 | 15 | -0.001 | 0.28 | — |
| 4. | RL-92 | 20 | -0.001 | 0.20 | — |
| 5. | RL-92 | 25 | -0.001 | 0.28 | — |
| 6. | RL-92 | 30 | -0.001 | 0.22 | — |
| 7. | RL-92 | 35 | 0.003 | 0.21 | — |
| 8. | RL-92 | 40 | 0.003 | 0.20 | — |
| 9. | RL-92 | 45 | 0.001 | 0.15 | — |
| 10. | RL-92 | 50 | 0.001 | 0.22 | — |
| 11. | RL-92 | 55 | 0.003 | 0.24 | — |
| 12. | RL-92 | 60 | 0.002 | 0.23 | — |
| 13. | RL-92 | 65 | 0.004 | 0.21 | — |
| 14. | RL-92 | 70 | 0.003 | 0.17 | — |
| 15. | RL-92 | 75 | 0.002 | 0.17 | — |
| 16. | RL-92 | 80 | 0.002 | 0.22 | — |
| 17. | RL-92 | 85 | 0.002 | 0.10 | — |
| 18. | RL-92 | 90 | 0.001 | 0.11 | — |
| 19. | RL-92 | 95 | 0.002 | -0.10 | — |
| 20. | RL-92 | 100 | 0.001 | 0.14 | — |
| 21. | RL-92 | 105 | 0.001 | 0.21 | — |
| 22. | RL-92 | 110 | 0.004 | 0.21 | — |
| 23. | RL-92 | 115 | 0.002 | 0.20 | — |
| 24. | RL-92 | 120 | 0.001 | 0.15 | — |
| 25. | RL-92 | 125 | 0.006 | 0.14 | — |
| 26. | RL-92 | 130 | 0.006 | 0.22 | — |
| 27. | RL-92 | 135 | 0.002 | 0.19 | — |
| 28. | RL-92 | 140 | 0.002 | 0.19 | — |
| 29. | RL-92 | 145 | 0.001 | 0.17 | — |
| 30. | RL-92 | 150 | 0.001 | 0.22 | — |
| | | 155 | | | |

| | SAMPLE I. D. | | | Checks | | |
|-----|--------------|-----|-----|--------|-------|-------|
| | Au | Ag | Au | o/t | o/t | o/t |
| 31. | RL-92 | 155 | 160 | 0.001 | 0.23 | - |
| 32. | RL-92 | 160 | 165 | 0.009 | 0.14 | - |
| 33. | RL-92 | 165 | 170 | 0.003 | 0.22 | - |
| 34. | RL-92 | 170 | 175 | 0.002 | 0.25 | - |
| 35. | RL-92 | 175 | 180 | 0.015 | 0.21 | - |
| 36. | RL-92 | 180 | 185 | 0.003 | 0.27 | - |
| 37. | RL-92 | 185 | 190 | 0.001 | 0.15 | - |
| 38. | RL-92 | 190 | 195 | 0.011 | 0.21 | - |
| 39. | RL-92 | 195 | 200 | 0.004 | 0.22 | - |
| 40. | RL-92 | 200 | 205 | 0.003 | 0.18 | - |
| 41. | RL-92 | 205 | 210 | 0.004 | 0.14 | - |
| 42. | RL-92 | 210 | 215 | 0.051 | 0.27 | 0.065 |
| 43. | RL-92 | 215 | 220 | 0.085 | 0.25 | 0.098 |
| 44. | RL-92 | 220 | 225 | 0.003 | 0.26 | - |
| 45. | RL-92 | 225 | 230 | 0.003 | 0.17 | - |
| 46. | RL-92 | 230 | 235 | 0.002 | 0.12 | - |
| 47. | RL-92 | 235 | 240 | 0.001 | -0.10 | - |
| 48. | RL-92 | 240 | 245 | 0.007 | 0.19 | - |
| 49. | RL-92 | 245 | 250 | 0.002 | 0.13 | - |
| 50. | RL-92 | 250 | 255 | 0.004 | 0.19 | - |
| 51. | RL-92 | 255 | 260 | 0.003 | 0.14 | - |
| 52. | RL-92 | 260 | 265 | 0.005 | 0.24 | - |
| 53. | RL-92 | 265 | 270 | 0.005 | 0.20 | - |
| 54. | RL-92 | 270 | 275 | 0.010 | -0.10 | - |
| 55. | RL-92 | 275 | 280 | 0.023 | -0.10 | - |
| 56. | RL-92 | 280 | 285 | 0.005 | -0.10 | - |
| 57. | RL-92 | 285 | 290 | 0.010 | -0.10 | - |
| 58. | RL-92 | 290 | 295 | -0.001 | -0.10 | - |
| 59. | RL-92 | 295 | 300 | 0.001 | -0.10 | - |

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THIS REPORT REVIEWED AND APPROVED BY:

RICHARD GRONDIN, LABORATORY MANAGER

JUL 31 1990

GEOCHEMICAL ANALYSIS REPORT

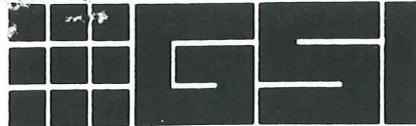
July 28, 1990

CUST. CODE #: LOA
 PROJECT #: URB0-79014
 P.O. #: XXXX
 LOT ID #: 7821

GEOLOGIST: NATE BREWER
 COPIES TO: SAME
 COMPANY: LAC MINERALS
 ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN AAS FINISH.

| | SAMPLE I.D. | | Au o/t | Ag o/t |
|------|-------------|--------|-----------|-----------|
| 1 " | RL-92C | 290 | 295 | -0.001 |
| 2 " | RL-92C | 295 | 300 | -0.001 |
| 3 " | RL-92C | 300 | 304.2 | -0.001 |
| 4 " | RL-92C | 304.2 | 310 | -0.001 |
| 5 " | RL-92C | 310 | 315 | -0.001 |
| 6 " | RL-92C | 315 | 320 | -0.001 |
| 7 " | RL-92C | 320 | 323.4 | -0.001 |
| 8 " | RL-92C | 323.4 | 327 | -0.001 |
| 9 " | RL-92C | 327 | 332 | -0.001 |
| 10 " | RL-92C | 332 | 337 | -0.001 |
| 11 " | RL-92C | 337 | 342 | -0.001 |
| 12 " | RL-92C | 342 | 347 | -0.001 |
| 13 " | RL-92C | 347 | 352 | -0.001 |
| 14 " | RL-92C | 352 | 357 | -0.001 |
| 15 " | RL-92C | 357 | 362 | -0.001 |
| 16 " | RL-92C | 362 | 367 | -0.001 |
| 17 " | RL-92C | 367 | 372 | -0.001 |
| 18 " | RL-92C | 372 | 377 | -0.001 |
| 19 " | RL-92C | 377 | 382 | -0.001 |
| 20 " | RL-95C | 955 | 960 | -0.001 |
| 21 " | RL-95C | 960 | 962.4 | -0.001 |
| 22 " | RL-95C | 962.4 | 966 | 0.002 |
| 23 " | RL-95C | 966 | 970 | 0.029 |
| 24 " | RL-95C | 970 | 974 | 0.008 |
| 25 " | RL-95C | 974 | 977 | 0.012 |
| 26 " | RL-95C | 992 | 982 | -0.001 |
| 27 " | RL-95C | 982 | 985 | -0.001 |
| 28 " | RL-95C | 985 | 990 | -0.001 |
| 29 " | RL-95C | 990 | 995 | -0.001 |
| 30 " | RL-95C | 995 | 1000.5 | -0.001 |
| 31 " | RL-95C | 1000.5 | 1005 | -0.001 |
| 32 " | RL-95C | 1005 | 1010 | 0.001 |
| 33 " | RL-95C | 1010 | 1015 | 0.001 |
| 34 " | RL-95C | 1015 | 1020 | -0.001 |

NEVADA



AUG 14 1990
GEOCHEMICAL ANALYSIS REPORT

August 9, 1990

CUST. CODE: LOA
PROJECT: URBD
P.O. #: XXXX
LOT ID: 7987

GEOLOGIST: NATE BREWER

COPIES TO: SAME

COMPANY: LAC MINERALS

ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

| SAMPLE I.D. | | | Au o/t | Ag o/t |
|-------------|--------|-------|-----------|-----------|
| 1. | RL-92C | 382 | 387 | -0.001 |
| 2. | RL-92C | 387 | 392 | -0.001 |
| 3. | RL-92C | 392 | 396 | -0.001 |
| 4. | RL-92C | 396 | 397.2 | -0.001 |
| 5. | RL-92C | 397.2 | 402 | -0.001 |
| 6. | RL-92C | 402 | 407 | -0.001 |
| 7. | RL-92C | 407 | 413.9 | -0.001 |
| 8. | RL-92C | 413.9 | 418.5 | -0.001 |
| 9. | RL-92C | 418.5 | 424 | -0.001 |
| 10. | RL-92C | 424 | 429.8 | -0.001 |
| 11. | RL-92C | 429.8 | 434.5 | -0.001 |
| 12. | RL-92C | 434.5 | 437 | -0.001 |
| 13. | RL-92C | 437 | 441.2 | -0.001 |
| 14. | RL-92C | 441.2 | 445 | -0.001 |
| 15. | RL-92C | 445 | 449 | -0.001 |
| 16. | RL-92C | 449 | 453.8 | -0.001 |
| 17. | RL-92C | 453.8 | 458 | -0.001 |
| 18. | RL-92C | 458 | 461.5 | -0.001 |
| 19. | RL-92C | 461.5 | 465.5 | -0.001 |
| 20. | RL-92C | 465.5 | 469.6 | -0.001 |
| 21. | RL-92C | 469.6 | 475 | -0.001 |
| 22. | RL-92C | 475 | 480 | -0.001 |
| 23. | RL-92C | 480 | 483 | -0.001 |
| 24. | RL-92C | 483 | 485 | -0.001 |
| 25. | RL-92C | 485 | 488 | -0.001 |
| 26. | RL-92C | 488 | 493 | -0.001 |
| 27. | RL-92C | 493 | 495 | -0.001 |
| 28. | RL-92C | 495 | 500 | -0.001 |
| 29. | RL-92C | 500 | 501 | -0.001 |
| 30. | RL-92C | 501 | 506 | -0.001 |
| 31. | RL-92C | 506 | 510 | -0.001 |
| 32. | RL-92C | 510 | 515 | -0.001 |
| 33. | RL-92C | 515 | 520 | -0.001 |
| 34. | RL-92C | 520 | 522.2 | -0.001 |
| 35. | RL-92C | 522.2 | 526.6 | -0.001 |
| 36. | RL-92C | 526.6 | 530 | -0.001 |
| 37. | RL-92C | 530 | 535 | -0.001 |

| | SAMPLE I.D. | | Au o/t | Ag o/t |
|-----|-------------|-------|-----------|-----------|
| 38. | RL-92C | 535 | 538 | -0.001 |
| 39. | RL-92C | 538 | 542 | -0.001 |
| 40. | RL-92C | 542 | 545 | -0.001 |
| 41. | RL-92C | 545 | 550 | -0.001 |
| 42. | RL-92C | 550 | 551 | -0.001 |
| 43. | RL-92C | 551 | 553.7 | -0.001 |
| 44. | RL-92C | 553.7 | 559 | -0.001 |
| 45. | RL-92C | 559 | 562.2 | -0.001 |
| 46. | RL-92C | 562.2 | 565 | -0.001 |
| 47. | RL-92C | 565 | 570 | -0.001 |
| 48. | RL-92C | 570 | 575 | -0.001 |
| 49. | RL-92C | 575 | 580 | -0.001 |
| 50. | RL-92C | 580 | 585 | -0.001 |
| 51. | RL-92C | 585 | 590 | -0.001 |
| 52. | RL-92C | 590 | 595 | -0.001 |
| 53. | RL-92C | 595 | 600 | -0.001 |
| 54. | RL-92C | 600 | 605 | -0.001 |
| 55. | RL-92C | 605 | 610 | -0.001 |
| 56. | RL-92C | 610 | 615 | -0.001 |
| 57. | RL-92C | 615 | 620 | -0.001 |
| 58. | RL-92C | 620 | 625 | -0.001 |
| 59. | RL-92C | 625 | 629 | -0.001 |
| 60. | RL-92C | 629 | 635 | -0.001 |
| 61. | RL-92C | 635 | 640 | -0.001 |
| 62. | RL-92C | 640 | 645 | -0.001 |
| 63. | RL-92C | 645 | 650 | -0.001 |
| 64. | RL-92C | 650 | 652.2 | -0.001 |
| 65. | RL-92C | 652.2 | 656 | -0.001 |
| 66. | RL-92C | 656 | 660.5 | -0.001 |
| 67. | RL-92C | 660.5 | 665.2 | -0.001 |
| 68. | RL-92C | 665.5 | 670 | 0.002 |
| 69. | RL-92C | 670 | 675 | -0.001 |
| 70. | RL-92C | 675 | 680 | -0.001 |
| 71. | RL-92C | 680 | 685 | -0.001 |
| 72. | RL-92C | 685 | 690 | 0.024 |
| 73. | RL-92C | 690 | 695 | -0.001 |
| 74. | RL-92C | 695 | 700 | -0.001 |
| 75. | RL-92C | 700 | 705 | -0.001 |
| 76. | RL-92C | 705 | 710 | -0.001 |
| 77. | RL-92C | 710 | 715 | -0.001 |
| 78. | RL-92C | 715 | 720 | -0.001 |
| 79. | RL-92C | 720 | 725 | 0.001 |
| 80. | RL-92C | 725 | 730 | -0.001 |

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This report reviewed and approved by:



Richard Grondin, Laboratory Director

NEVADA



AUG 21 1990

GEOCHEMICAL ANALYSIS REPORT

August 15, 1990

CUST. CODE: LOA
 PROJECT: URBD
 P.O. #: XXXX
 LOT ID: 8065

GEOLOGIST: NATE BREWER
 COPIES TO: SAME
 COMPANY: LAC MINERALS
 ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

| | SAMPLE | I.D. | Au o/t | Ag o/t |
|-----|--------|------|-----------|-----------|
| 1. | RL-92C | 730 | -0.001 | -.10 |
| 2. | RL-92C | 735 | -0.001 | -.10 |
| 3. | RL-92C | 740 | -0.001 | -.10 |
| 4. | RL-92C | 745 | -0.001 | 0.17 |
| 5. | RL-92C | 750 | -0.001 | -.10 |
| 6. | RL-92C | 755 | 0.004 | -.10 |
| 7. | RL-92C | 760 | 0.001 | 0.21 |
| 8. | RL-92C | 763 | -0.001 | 0.13 |
| 9. | RL-92C | 766 | -0.001 | -.10 |
| 10. | RL-92C | 770 | -0.001 | -.10 |
| 11. | RL-92C | 775 | -0.001 | 0.18 |
| 12. | RL-92C | 780 | -0.001 | -.10 |
| 13. | RL-92C | 785 | -0.001 | -.10 |
| 14. | RL-92C | 790 | -0.001 | -.10 |
| 15. | RL-92C | 795 | -0.001 | -.10 |
| 16. | RL-92C | 800 | -0.001 | -.10 |
| 17. | RL-92C | 805 | -0.001 | -.10 |
| 18. | RL-92C | 810 | -0.001 | 0.20 |
| 19. | RL-92C | 815 | -0.001 | 0.23 |
| 20. | RL-92C | 820 | -0.001 | -.10 |
| 21. | RL-92C | 825 | -0.001 | -.10 |
| 22. | RL-92C | 830 | 0.001 | -.10 |
| 23. | RL-92C | 835 | 0.001 | -.10 |
| 24. | RL-92C | 840 | -0.001 | -.10 |
| 25. | RL-92C | 845 | 0.001 | -.10 |
| 26. | RL-92C | 850 | 0.001 | 0.11 |
| 27. | RL-92C | 855 | 0.001 | 0.16 |
| 28. | RL-92C | 860 | 0.001 | -.10 |
| 29. | RL-92C | 865 | -0.001 | -.10 |
| 30. | RL-92C | 870 | 0.001 | -.10 |
| 31. | RL-92C | 875 | 0.001 | -.10 |
| 32. | RL-92C | 880 | 0.001 | -.10 |
| 33. | RL-92C | 885 | 0.001 | -.10 |
| 34. | RL-92C | 890 | -0.001 | -.10 |

| | SAMPLE I.D. | | Au o/t | Ag o/t |
|-----|-------------|---------|-----------|-----------|
| 35. | RL-92C | 895 900 | -0.001 | -.10 |
| 36. | RL-92C | 900 905 | -0.001 | -.10 |
| 37. | RL-92C | 905 910 | -0.001 | -.10 |
| 38. | RL-92C | 910 915 | -0.001 | -.10 |
| 39. | RL-92C | 915 920 | 0.001 | -.10 |
| 40. | RL-92C | 920 925 | -0.001 | -.10 |
| 41. | RL-92C | 925 930 | -0.001 | -.10 |
| 42. | RL-92C | 930 935 | -0.001 | -.10 |
| 43. | RL-92C | 935 938 | -0.001 | -.10 |
| 44. | RL-92C | 938 941 | -0.001 | -.10 |

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This report reviewed and approved by:



Richard Grondin, Laboratory Director

NEVADA



JUL 02 1990

GEOCHEMICAL ANALYSIS REPORT

June 28, 1990

CUST. CODE: LOA

PROJECT: URBD

P.O. #: XXXX

LOT ID: 7674

GEOLOGIST: NATE BREWER

COPIES TO: SAME

COMPANY: LAC MINERALS

ANALYSIS: FIRE ASSAY FOR GOLD AND SILVER, WITH AN A.A. FINISH.

| | SAMPLE I.D. | | Au o/t | Ag o/t |
|-----|-------------|--------|-----------|-----------|
| 1. | RL-92C | 941 | 944.6 | -0.001 |
| 2. | RL-92C | 944.6 | 948.5 | -0.001 |
| 3. | RL-92C | 948.5 | 951 | -0.001 |
| 4. | RL-92C | 951 | 955 | 0.006 |
| 5. | RL-92C | 955 | 960 | 0.001 |
| 6. | RL-92C | 960 | 965 | 0.004 |
| 7. | RL-92C | 965 | 970 | 0.001 |
| 8. | RL-92C | 970 | 975.3 | -0.001 |
| 9. | RL-92C | 975.3 | 977.7 | 0.002 |
| 10. | RL-92C | 977.7 | 982 | 0.003 |
| 11. | RL-92C | 982 | 986.4 | -0.001 |
| 12. | RL-92C | 986.4 | 989 | -0.001 |
| 13. | RL-92C | 989 | 994.1 | -0.001 |
| 14. | RL-92C | 994.1 | 1000 | 0.54 |
| 15. | RL-92C | 1000 | 1005 | -0.001 |
| 16. | RL-92C | 1005 | 1010 | -0.001 |
| 17. | RL-92C | 1010 | 1015 | -0.001 |
| 18. | RL-92C | 1015 | 1020 | -0.001 |
| 19. | RL-92C | 1020 | 1025 | -0.001 |
| 20. | RL-92C | 1025 | 1029 | -0.001 |
| 21. | RL-92C | 1029 | 1032.8 | -0.001 |
| 22. | RL-92C | 1032.8 | 1035 | -0.001 |
| 23. | RL-92C | 1035 | 1036.7 | -0.001 |
| 24. | RL-92C | 1036.7 | 1040 | -0.001 |
| 25. | RL-92C | 1040 | 1046 | -0.001 |
| 26. | RL-92C | 1046 | 1050 | 0.038 |
| 27. | RL-92C | 1050 | 1055 | 0.011 |
| 28. | RL-92C | 1055 | 1060 | 0.004 |
| 29. | RL-92C | 1060 | 1065 | 0.005 |
| 30. | RL-92C | 1065 | 1070 | 0.001 |

| | SAMPLE | I. D. | Au o/t | Ag o/t |
|-----|--------|--------|-----------|--------------|
| 31. | RL-92C | 1070 | 1075 | 0.012 -0.10 |
| 32. | RL-92C | 1075 | 1080 | 0.003 -0.10 |
| 33. | RL-92C | 1080 | 1085 | -0.001 -0.10 |
| 34. | RL-92C | 1085 | 1090 | 0.001 -0.10 |
| 35. | RL-92C | 1090 | 1095 | -0.001 -0.10 |
| 36. | RL-92C | 1095 | 1100 | -0.001 -0.10 |
| 37. | RL-92C | 1100 | 1105 | 0.009 0.25 |
| 38. | RL-92C | 1105 | 1111.2 | -0.001 -0.10 |
| 39. | RL-92C | 1111.2 | 1115 | -0.001 -0.10 |
| 40. | RL-92C | 1115 | 1120 | -0.001 -0.10 |
| 41. | RL-92C | 1120 | 1125 | -0.001 -0.10 |
| 42. | RL-92C | 1125 | 1130 | -0.001 -0.10 |
| 43. | RL-92C | 1130 | 1135 | -0.001 -0.10 |
| 44. | RL-92C | 1135 | 1140 | -0.001 0.17 |
| 45. | RL-92C | 1140 | 1145 | -0.001 -0.10 |
| 46. | RL-92C | 1145 | 1150 | -0.001 -0.10 |
| 47. | RL-92C | 1150 | 1155 | -0.001 -0.10 |
| 48. | RL-92C | 1155 | 1160 | -0.001 -0.10 |
| 49. | RL-92C | 1160 | 1165 | -0.001 -0.10 |
| 50. | RL-92C | 1165 | 1168 | -0.001 0.10 |
| 51. | RL-92C | 1168 | 1172 | -0.001 -0.10 |
| 52. | RL-92C | 1172 | 1175 | 0.001 -0.10 |
| 53. | RL-92C | 1175 | 1180 | 0.003 -0.10 |
| 54. | RL-92C | 1180 | 1184 | 0.012 -0.10 |
| 55. | RL-92C | 1184 | 1190 | 0.039 0.10 |
| 56. | RL-92C | 1190 | 1195 | -0.001 -0.10 |
| 57. | RL-92C | 1195 | 1200 | -0.001 -0.10 |
| 58. | RL-92C | 1200 | 1205 | -0.001 -0.10 |
| 59. | RL-92C | 1205 | 1210 | -0.001 -0.10 |
| 60. | RL-92C | 1210 | 1215 | -0.001 -0.10 |
| 61. | RL-92C | 1215 | 1220 | 0.029 0.10 |
| 62. | RL-92C | 1220 | 1225 | 0.003 0.60 |
| 63. | RL-92C | 1225 | 1230 | 0.005 -0.10 |
| 64. | RL-92C | 1230 | 1235 | 0.010 0.20 |
| 65. | RL-92C | 1235 | 1240 | 0.018 -0.10 |
| 66. | RL-92C | 1240 | 1245.4 | 0.093 0.72 |
| 67. | RL-92C | 1245.4 | 1250 | 0.015 0.24 |
| 68. | RL-92C | 1250 | 1255 | 0.023 0.30 |
| 69. | RL-92C | 1255 | 1257.5 | 0.107 0.57 |
| 70. | RL-92C | 1257.5 | 1265 | 0.008 0.60 |
| 71. | RL-92C | 1265 | 1270 | 0.049 0.21 |
| 72. | RL-92C | 1270 | 1275 | 0.009 0.42 |
| 73. | RL-92C | 1275 | 1278 | 0.009 0.40 |
| 74. | RL-92C | 1278 | 1281 | 0.005 -0.10 |

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THIS REPORT REVIEWED AND APPROVED BY:

Jerry Gaige
JERRY GAIGE, CHIEF CHEMIST

RL-92 CORE LOG SUMMARY

290 - 1237.6 RED BROWN UGLY - CHOCOLATE
290-323.4 bl
396 - 397.2 bl + A
413.9 - 418.2 bl w/ CaCO_3 vns
429.8 - 437 bl
453.8 - 461.5 bl
474 - 479.5 bl x rubble
487 - 496 bl rubble zone
505 - 511 bl
526.6 - 553.7 bl 545-550 A
642 - 665.5 bl γ X A
677 - 684 bl
750 - 766 bl 755 - 760 xx shear?

FAULT 944.6 - 948.5 60° TO CORE AXIS AX
948.5 - 994.1 bl γ γ Δ
1032.8 - 1111.2 bl γ X A \rightarrow CRACKLE TO AUTO
1168 - 1237.6 bl γ

FAULT 1175 - 1180.7 XXX Δ γ str white clay vns
1180.7 - 1237.6 bl XX Δ veined

FAULT 1237.6 - 1245.6 AXAXAX
1245.6 - 1257.5 transitional volc. sed.
1257.5 - 1281 JURASSIC SHALES

ROTARY LOG Summary

0 - 290 CHOCOLATE
5-45 unalt
45 - 130 bl + clay alt
130 - 300 bl X