60000811

Mining District File Summary Sheet

| | |
|---|---|
| DISTRICT | Rosebud |
| DIST_NO | 4010 |
| COUNTY<br>If different from written on document | Pershing |
| TITLE<br>If not obvious | Rosebud Drill Hole File - Hole No. D-8-94 |
| AUTHOR | C. Wineteer; C. Muerhoff; S. Faircloth |
| DATE OF DOC(S) | 1994 |
| MULTI_DIST Y / N?<br>Additional Dist_Nos: | |
| QUAD_NAME | Sulphur 7.5' |
| P_M_C_NAME<br>(mine, claim & company names) | Rosebud Mine; Hecla Mining Co.; Rosebud Project South Zone |
| COMMODITY<br>If not obvious | gold; silver |
| NOTES | Drill log; geology; assay; total depth 220'; receipt; handwritten notes; underground drilling<br><br>10p. |

Keep docs at about 250 pages if no oversized maps attached (for every 1 oversized page (>11x17) with text reduce the amount of pages by ~25)

SS: DD 5/1/08
Initials Date

DB:
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

UNDERGROUND DRILLING D-8-94 STA. NO. 5
SECTION 300N

60000811
4010

**Hecla**
MINING COMPANY

# ROSEBUD PROJECT
# DIAMOND DRILL LOG

| | | | | | |
|---|---|---|---|---|---|
| HOLE NUMBER | D-8-94 | LOCATION | South Zone | REMARKS | ORIENTATIONS STATED AS |
| PAGE 1 OF 7 | | NORTHING | 2,203,454.2 | | ∡ TO CORE AXIS; WHOLE CORE ASSAY |
| DATE | 7-19-94 | EASTING | 481,375.0 | | SAMPLES; CORE PHOTOGRAPHED; COLLARED |
| LOGGED BY | CBWINETEER | ELEVATION | 4740.2 | | IN DRILL STATION NO. 5 - SECTION 300N |
| SCALE | 1" = 5' | AZIMUTH | 132.5° | | |
| TOTAL DEPTH | 220' | INCLINATION | +57° | | |

| %REC | RQD | LITHOLOGY | | | FT | GRAPHIC LOG | STRUCTURE | ALTERATION AND MINERALIZATION |
|---|---|---|---|---|---|---|---|---|
| 74 | .20<br>2>4"<br>5 | MOD/ MOD MD | Med kaki-green | 0-4' Tectonically brecciated dense, fine-grained, planar-laminated (waterlain) tephra consisting of angular frags in matrix of f. to c-g grained gouge. Principal frac's @ 5° & 40° w/ clast rotation evident from laminations. | | | | 0-5' Minor smec/ill ± $CaCO_3$ ± minor marc. coatings at 30°; <1% diss sulf. |
| 93 | .60<br>8>4'<br>13 | MOD MD | pale pink-tan matrix w/ cream clasts w/ purple rims | 4-8' Fine-grained aphanitic, massive bedded tephra fragments in a siliceous fine-grained tuffaceous matrix; matrix-supported w/ poorly-sorted angular clasts.<br>8-11.5' Large fragment or wall-rock of fine-grained massive-bedded aphanitic tephra<br>11.5-18' Matrix-supported, poorly-sorted, coarse-grained (fragments) siliceous tuff breccia w/ cream colored clasts w/ purple siliceous reaction rims in a siliceous pinkish-grey fine-grained matrix. | 5<br>10 | | 4' gradational interbdd. contact.<br>pale grn clay-filled stx's. | 5-35' Minor $CaCO_3$ + smec/ill + py (brassy, med. g. granular) on 45-50°; 5° @ 70° frac's ± lam. parallel. diss sulf 1-2% |
| 94 | .57<br>4>4"<br>18 | MOD | | | 15 | | irregular-seriated cont. | |
| 94 | .60<br>6>4"<br>23 | | pale grnish-gry & pinkish gry | 18.5-27' Interbedded planar-laminated f.g. waterlain tuff/tephra and flow-laminated lithic tuff breccia w/ elongated flow-laminated & sheared tuff/tephra clasts. | 20 | | 18' $CaCO_3$ vn'd & flooded fault contact @ 40° (NOT PAR TO LAM AS SHOWN BUT ⊥ TO LAM'S)<br>flow-lamination 25-35' | |
| 91 | .76<br>8>4' | | | | 25 | | | |

## ANALYTICAL DATA

| FROM | TO | W | Au | Ag | Au2 | Ag2 |
|---|---|---|---|---|---|---|
| 0 | 5 | 5.0' | 0.010 | 0.08 | | |
| 5 | 10 | 5.0' | <0.001 | 0.03 | | |
| 10 | 15 | 5.0' | <0.001 | 0.04 | | |
| 15 | 20 | 5.0' | 0.001 | 0.02 | | |
| 20 | 25 | 5.0' | 0.003 | 0.05 | | |

HOLE NUMBER D-8-94 PAGE 2 OF 7

| %REC | RQD | LITHOLOGY | FT | GRAPHIC LOG | STRUCTURE | ALTERATION AND MINERALIZATION |
|---|---|---|---|---|---|---|
| | 28 | MOD HD S.A.A Changing ↓ to med. gry matrix w/ wht clasts ↓ alt to grey, pink down-ward | | | | |
| 100 | 1.0<br>5 >4" | | 30 | | flow-lamination @30-40' | |
| | 32 | | | | | |
| 98 | .98<br>6 >4" | MOD HD -HD | 35 | | py-coated frac. @72' w/ displaced/terminated lam's w/in clast. | 35-54' S.A.A. w/ incr. $CaCO_3$ vn width + red-brown $SiO_2$ + py cemented frac-controlled crackle bx's at 20' — x-cut by $CaCO_3$ vnlts. + - py + $CaCO_3$ ± smec./ill mod. strong @30' |
| | 37 | | | | | |
| 92 | .74<br>7 >4" | MOD HD | 40 | | | |
| | 47 | | 45 | | | |
| 91 | .91<br>11 >4" | 48.5 - 62' Flow-laminated and flow-sheared, fine-grained waterlain tuff/tephra w/ interbeds of flow-laminated lithic tuff breccia. | 50 | | | 51-60' dk grn red-brn siliceous - chloritic strks @ 15' + $CaCO_3$ + py ± marc. ± $SiO_2$ ± smec ill |
| | 57 | | 55 | | | 54-67.5 Strong sulfidation 4-5% diss. sulf + mod. bleaching. predom marc. discont. $CaCO_3$ + py vnlts.) weak $SiO_2$ micro bx-silic. at top Δ mgt top minor $CaCO_3$ + py @30' |
| 90 | .75<br>9 >4" | | 60 | | | |

ANALYTICAL DATA

| FROM | TO | W | Au | Ag | Au2 | Ag2 |
|---|---|---|---|---|---|---|
| 25 | 30 | 5.0' | 0.008 | 0.19 | | |
| 30 | 35 | 5.0' | 0.002 | 0.24 | | |
| 35 | 40 | 5.0' | 0.024 | 0.32 | 0.027 | |
| 40 | 45 | 5.0' | 0.004 | 0.15 | | |
| 45 | 50 | 5.0' | 0.005 | 0.10 | | |
| 50 | 55 | 5.0' | 0.022 | 0.40 | | |
| 55 | 60 | 5.0' | 0.001 | 0.06 | | |

HOLE NUMBER D-8-94 PAGE 3 OF 7

| %REC | RQD | LITHOLOGY | FT | GRAPHIC LOG | STRUCTURE | ALTERATION AND MINERALIZATION |
|---|---|---|---|---|---|---|
| | 65 | Mod HB; grey to pinkish grey-tan matrix w/ pinkish, grey, clasts; Mod HB → Mod HB - Hb<br>62-161.5' Matrix-supported, poorly-sorted, coarse-grained (clasts) massive bedded lithic tuff breccia w/ silicified & clay + sulfide altered angular clasts (appear heterolithic) in a fine-grained siliceous tuffaceous matrix. | 65 | | 62' slicked contact @ 40°<br>63' minor tectonic bx @ 30° | |
| 95 | .75<br>9>4" | | 70 | | $CaCO_3$ + py ± chl. slicks @ 20° & 40° | 67.5-76' Increasing silicification w/ H. brn $SiO_2$ + py microbx stkwk & $CaCO_3$ + py s.e.a $CaCO_3$ + py after coarse-grained hexagonal marc. ± Tr spl. |
| | 75 | | 75 | | | 76-78.5 Vns of C. xm open-space water course $CaCO_3$ ± Tr py @ 30° |
| 93 | .88<br>12>4" | Mod HB | 80 | | | 78.5-92' $CaCO_3$ + py v.v. marc. @ 70-80°; 5-15° & 30° diss. cubic py 2-3% |
| | 85 | | 85 | | | |
| 96 | .96<br>8>4" | | 90 | | | 92-98' @ 10° $SiO_2$ + py flooded tectonic frac controlled microbx w/ Tr spl. & carbonate + py clotts & subpar. vns. |
| | 95 | | 95 | | | |

ANALYTICAL DATA

| FROM | TO | W | Au | Ag | Au2 | Ag2 |
|---|---|---|---|---|---|---|
| 60 | 65 | 5.0' | 0.002 | 0.05 | | |
| 65 | 70 | 5.0' | 0.002 | 0.04 | | |
| 70 | 76 | 6.0' | 0.004 | 0.04 | | |
| 76 | 81 | 5.0' | 0.005 | 0.05 | | |
| 81 | 86 | 5.0' | 0.004 | 0.07 | | |
| 86 | 92 | 6.0' | 0.005 | 0.04 | | |
| 92 | 98 | 6.0' | 0.007 | 0.04 | | |

HOLE NUMBER D-8-94 PAGE 4 OF 7

| %REC | RQD | LITHOLOGY | FT | GRAPHIC LOG | STRUCTURE | ALTERATION AND MINERALIZATION |
|---|---|---|---|---|---|---|
| 96 | .87<br>12>4"<br>105 | MOD HD S.A.A. 62 - 161.5' Continued. | 100<br>105 | | —104-105 SS bearing unit SEM — | — 97-98' C. xln open-space watercourse $CaCO_3$.<br>2nd Order<br>98—109 Reaction rims in breccia clasts w/ pink, brown purple siliceous core & cream clay + sulf. rich rims. minor $CaCO_3$ + f.g. py + smec. /ill + high Z med. to coarse-g. sulfosalts, @ 25-35' +Tr f.g. cpy |
| 97 | .91<br>11>4"<br>115 | | 110<br>115 | | | 109—123.5' siliceous g.m. w/ 2-3% diss. f.g. py minor py after marc. + Q + smec/ill @30° 550° ∠ 1/ft. minor $CaCO_3$ + py + marc. + smec/ill @20° as below<br>c. xln $CaCO_3$ + py + marc @20 |
| 95 | .78<br>9>4"<br>125 | 123.5 MOD<br>MOD HD | 120<br>125 | | Ba | c. xln $CaCO_3$ + py + marc @10<br>121-122' vuggy frac @20° w/ open-space f.g. Q + smec/ill + py + marc. + c. xln bar<br>123.5-124.9' Mod. strong clay alt w/ slicks @ 15' w/ R.&G stx's. |
| 94 | .85<br>13>4" | SOFT | 130 | | 128.1 - ~~128.85~~ ~129.2' tectonic-fault bx w/ bounding slicks @ 35' (top) 50' (base) w/ R&G stx's @55' | 125-128.1' Minor py + $CaCO_3$ ± Q + smec /ill @ 20 & 30°.<br>3rd order reaction rims<br>siliceous g.m. w/ 2-4% py<br>$SiO_2$ ± sulf<br>clay ± sulf<br>$SiO_2$ ± sulf.<br>128.85-129.15' see below |

ANALYTICAL DATA

| FROM | TO | W | Au | Ag | Au2 | Ag2 |
|---|---|---|---|---|---|---|
| 98 | 103 | 5.0' | 0.014 | ? | | |
| 103 | 105 | 2.0' | ? | 0.31 | | |
| 105 | 110 | 5.0' | 0.018 | 0.03 | | |
| 110 | 115 | 5.0' | 0.001 | 0.46 | | |
| 115 | 120 | 5.0' | 0.008 | 0.22 | | |
| 120 | 123.5 | 3.5' | 0.003 | 0.07 | | |
| 123.5 | 125 | 1.5' | 0.061 | 0.99 | 0.063 | |
| 125 | 128.1 | 3.1' | 0.005 | 0.43 | | |
| 128.1 | 129.2 | 1.1' | 0.035 | 0.86 | | |

HOLE NUMBER D-8-94 PAGE 5 OF 7

| %REC | RQD | LITHOLOGY | | | FT | GRAPHIC LOG | STRUCTURE | ALTERATION AND MINERALIZATION |
|---|---|---|---|---|---|---|---|---|
| | | MOD HD | S.A.A | 62-161.5' Continued | | | | 128.85-129.15 $SiO_2 + CaCO_3$ + massive py + smec/ill flooded fault microbx w/ rounded silic. frags in above matrix, including massive c.g. py-$CaCO_3$ vn - bx'iated & cemented by $SiO_2$ ± smec/ill. |
| | 135 | | INCRE. BLEACHING | | 135 | | 134.5' SEM- | |
| 94 | .82 11>4" | | | | 140 | | | 129.45-134' strong silic. g.m. w/ 3rd order reaction rims $SiO_2 \rightarrow$ clay $\rightarrow SiO_2$ common. minor py-Q microvnlts @45° x-cut by $CaCO_3$+py after marc. @10° ± smec/ill w/ Tr f.g. open-space Q ± Tr sulfosalt ± Tr V.E. |
| | 145 | | | | 145 | | | 134-138' $CaCO_3$ + py ± o.c. ± ss+ spl ± V.E in pseudomorphic repl. of marc. ± smec/ill+Q @35° x-cut by c.xln $CaCO_3$ + py @25° (opposing) |
| 95 | .83 11>4" | | | 151-151.7' Compressive Strength Test Sample CST-1 2.5lbs dry 5 30° irreg. smec/ill + py + Tr cpy + ss. 3-4% diss py. strong alt. of clasts - repl. $SiO_2$/clay/sulf. | 150 | | 153-154' clay alt. frac'd? vn by $CaCO_3$ ± py | 138-151' bleached silic. g.m. w/ 3-7% diss f.g. platelets of marc 2/or, py after marc. w/ minor 15°, 30° f.g. py + clay (commonly slicked) microveinlets. ± v.f.g. sulfosalts 2nd & 3rd order reaction rims & loc. total repl. of clasts by $SiO_2$ |
| | 155 | MOD SOFT MOD HD | | | 155 | | | 151-154 $CaCO_3$ ± c.g. yellow py + f.g. py + f.g. sulfosalts ± V.E. ± Tr spl. @30° irreg. clay alt. mod. strong; diss 2-3% py 3rd & 4th order reaction rims Q→C→Q→C |
| 96 | .70 9>4" | | | 160-161 thin black organic-rich surf's at 55° 161.2 0.4" black organic-rich py/marc-rich clay w/ small loc. graphitic slicks 161.5-165.4' clast- & matrix supported crackle & hydrothermal breccia in fine-grained, well-sorted, massive bedded airfall or waterlain tephra/tuff. Minor to no reaction rims, clay alt. + sulf. | 160 | | W/in 5-10' frac/vnlt. core of consists of smec/ill → bladed marc (+ py repl.) w/ exsolved crystalline v.v.f.g. V.G. ± f.g. sulfosalts. 158.5' slicked py + sulfosalt + clay ± Q @40° 161.5-165.6' diss 3-4% f.g. cubic py + f.g. marc. w/ v. minor Q + marc (tourmaline ad & w/ blade smooth surfs) + smec/ill @60° | 154-158 2-3% diss py; $CaCO_3$+ Q→ smec/ill → marc. vnlts @20° S.A.A @35° w/ slicks f.g. ss. ± Tr V.E 158-165.5' Minor Q + smec/ill py + cpy @60° < 1/ft. after marc. 160-161.5' @55° single O.C.? rich blk clay + smec/ill + cubic py + bladed marc |
| | 165 | | | | 165 | | | |

ANALYTICAL DATA

| | FROM | TO | W | Au | Ag | Au2 | Ag2 | |
|---|---|---|---|---|---|---|---|---|
| | 129.2 | 134 | 4.8' | 0.020 | 0.10 | | | |
| | 134 | 138 | 4.0' | 0.015 | 0.36 | | | |
| | 138 | 142 | 4.0' | 0.017 | 0.35 | | | |
| | 142 | 146 | 4.0' | 0.067 | 2.98 ? | 0.066 | | |
| | 146 | 150.6 | 4.6' | 0.009 | 1.01 | | | |
| * | 150.6 | 154 | 3.4' | 0.197 | 3.53 | (grav) 0.206 | | Au Avg .202 |
| * V.G. | 154 | 158.5 | 4.5' | 1.105 | 3.53 | (grav) 0.916 | | 150.6-160 .170, .359, 1.27, 1.011 |
| | 158.5 | 160 | 1.5' | 0.027 | 0.15 | | | .027 |
| O.C. | 160 | 161.5 | 1.5' | 0.160 | 1.32 | (grav) 0.140 | | .150 |
| | 161.5 | 165.6 | 4.1 | 0.008 | 0.10 | | | .008 |

HOLE NUMBER D-8-94 PAGE 6 OF 7

| %REC | RQD | LITHOLOGY | | | FT | GRAPHIC LOG | STRUCTURE | ALTERATION AND MINERALIZATION |
|---|---|---|---|---|---|---|---|---|
| 89 | .55<br>8>4" | MOD HD<br>MOD<br>MOD SOFT | DRAB PINKISH GRY ↓ PALE GRN FBLK<br>GRN? BLK ↓ GRN W/ PINK | 168-169 organic carbon rich black clay ? slicked grey (wht + blk) @ 55° w/ < x-cutting frac controlled O.C. rich frac's @ 30°<br>169-170 CRACKLE Bx w/ O.C. rich matrix<br>165.5-174' Fine-grained, well-sorted, planar flow-laminated, waterlain tephra/tuff w/ organic-rich bedding | 170 | | 165.5 Organic carbon-rich wavy-bedded contact at 60°<br>planar-laminations at 40°<br>168.5-171' Crackle bx in f.g. organic-rich tephra w/ principal frac's at 10°<br>171-174 tectonic fault-bx w/ partial o.c. on frac's + partial silic. | 165.5-169' Clear to off-white chalcedonic Q microhairline" stkwk w/ principal orient. @ 10° diss. 2-4% high Z, yellow tint py-ohedrons; O.C.-rich 55° as at left.<br>169-174 bxiated & loc. silic. s.a.a.<br>173' silic. of tectonic bx |
| | | 175 | MOD HD MATRIX W/ MOD CLASTS | PALE PINK MATRIX W/ PALE GRN CLASTS | 175 | | | |
| 91 | .71<br>10>4" | | | 174-220' Matrix to loc clast-supported, very coarse-grained (clasts), heterolithic tuff breccia, w/ angular unbedded massive & planar-laminated, clay altered f.g. tephra/tuff fragments in a siliceous fine-grained tuffaceous matrix. | 180 | | ✱ 176.2-176.8' CST-2<br>Ba | 175-196' Clay altered clasts w/ little to no reaction rims, weakly silic. g.m. w/ x-cutting more + smec/ill ± open-space Q @ 70° x-cutting 20°. [smec/ill >> than previous intervals] 1-3% diss. f.g. py<br>179-191 Vuggy silic. + c. x/n open-space zoned barite on 10° & 30° stx's |
| | | 185 | | | 185 | | | |
| 90 | .78<br>8>4" | | | | 190 | | pale green < strong sericite alt. of g.m. | 191-220' Weak clay alt. clasts in f.g. w/l. silic. grnd mass, 1-2 diss f.g. py; INCR. smec/ill + marc. ± vuggy open-space Q ± yellow oxid. "ducks butter" vnlts @ 5° & 30° |
| | | 195 | | | 195 | | | |
| 91 | .72<br>11>4" | | MOD | | 200 | | | |

ANALYTICAL DATA

| FROM | TO | W | Au | Ag | Au2 | Ag2 |
|---|---|---|---|---|---|---|
| ✱o.c. 165.6 | 170 | 4.4' | 0.303 | 5.30 | (grav) 0.270 | 2.07 |
| ✱o.c. 170 | 175 | 5.0' | 0.048 | 0.75 | | |
| 175 | 180 | 5.0' | 0.010 | 2.79 | | |
| 180 | 185 | 5.0' | 0.009 | 0.31 | | |
| 185 | 190 | 5.0' | 0.009 | 0.14 | | |
| 190 | 195 | 5.0' | 0.030 | 0.31 | | |
| 195 | 200 | 5.0' | 0.009 | 0.08 | 0.007 | |

HOLE NUMBER D-8-94 PAGE 7 OF 7

| %REC | RQD | LITHOLOGY | FT | GRAPHIC LOG (ALT, Stx, LITH) | STRUCTURE | ALTERATION AND MINERALIZATION | ANALYTICAL DATA FROM | TO | W | Au | Ag | Au2 | Ag2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 205 | MOD to MOD HD; CLASTS INCR. SIZE MATRIX DING TO GRN; 174-220' Continued | | | | | 200 | 205 | 5.0' | 0.003 | 0.05 | | |
| 95 | >76 12>4" 215 | | 205, 210, 215 | | | | 205 | 210 | 5.0' | 0.002 | 0.03 | | |
| | | | | | | | 210 | 215 | 5.0' | 0.002 | 0.05 | | |
| 104 | 1.0 4>4" | | 220 | | | | 215 | 220 | 5.0' | 0.002 | 0.04 | | |
| | | END OF HOLE @ 220' | | | | | | | | | | | |

# ANALYSIS REPORT

American Assay Laboratories Inc.

P.O. BOX 71060
RENO, NV,,U.S.A.,
Ph.1-702-356-0606, Fax.1-702-356-1413
Telex:

posted

## HECLA MINING CO.

COPIES TO : CHARLIE MUERHOFF
:
:
:

CLIENT REFERENCE No: D-8-94
LABORATORY JOB No. : SP030127
SAMPLE TYPE :

RECEIVED : 23/07/94
REPORTED : 9/08/94
No. SAMPLES : 49

| ANALYSIS | ANALYTICAL METHOD | QUALITY PARAMETER | UNIT | DETECTION |
|---|---|---|---|---|
| Au(OZ) | FA60 | 15% | OPT | 0.001 |
| Au(RZ) | FA60 | 15% | OPT | 0.001 |
| AuGRAV | GRAV | 15% | OPT | 0.001 |
| Ag(OZ) | D210 | 10% | OPT | 0.02 |

SIGNATORY : Sue Faircloth M.S.

AMERICAN ASSAY LABORATORIES

# ANALYSIS REPORT

American Assay Laboratories Inc.

posted

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-8-94
JOB NUMBER : SP030127
REPORTED : 9/08/94

| SAMPLES | Au(OZ) FA60 OPT | Au(RZ) FA60 OPT | AuGRAV GRAV OPT | Ag(OZ) D210 OPT |
|---|---|---|---|---|
| D-8-94 00-05 | 0.010 | | | 0.08 |
| D-8-94 05-10 | <0.001 | | | 0.03 |
| D-8-94 10-15 | <0.001 | | | 0.04 |
| D-8-94 15-20 | 0.001 | | | 0.02 |
| D-8-94 20-25 | 0.003 | | | 0.05 |
| D-8-94 25-30 | 0.008 | | | 0.19 |
| D-8-94 30-35 | 0.002 | | | 0.24 |
| D-8-94 35-40 | 0.024 | 0.027 | | 0.32 |
| D-8-94 40-45 | 0.004 | | | 0.15 |
| D-8-94 45-50 | 0.005 | | | 0.10 |
| D-8-94 50-55 | 0.022 | | | 0.40 |
| D-8-94 55-60 | 0.001 | | | 0.06 |
| D-8-94 60-65 | 0.002 | | | 0.05 |
| D-8-94 65-70 | 0.002 | | | 0.04 |
| D-8-94 70-76 | 0.004 | | | 0.04 |
| D-8-94 76-81 | 0.005 | | | 0.05 |
| D-8-94 81-86 | 0.004 | | | 0.07 |
| D-8-94 86-92 | 0.005 | | | 0.04 |
| D-8-94 92-98 | 0.007 | | | 0.04 |
| D-8-94 98-103 | 0.014 | | | 0.08 |
| D-8-94 103-105 | 0.006 | | | 0.21 |
| D-8-94 105-110 | 0.018 | | | 0.03 |
| D-8-94 110-115 | 0.001 | | | 0.46 |
| D-8-94 115-120 | 0.008 | | | 0.22 |
| D-8-94 120-123.5 | 0.003 | | | 0.07 |

AMERICAN ASSAY LABORATORIES
# ANALYSIS REPORT

American Assay Laboratories Inc.

CLIENT : HECLA MINING CO.
PROJECT : ROSEBUD
REFERENCE : D-8-94
JOB NUMBER : SP030127
REPORTED : 9/08/94

| SAMPLES | Au(OZ) FA60 OPT | Au(RZ) FA60 OPT | AuGRAV GRAV OPT | Ag(OZ) D210 OPT |
|---|---|---|---|---|
| D-8-94 123.5-125 | 0.061 | 0.063 | | 0.99 |
| D-8-94 125-128.1 | 0.005 | | | 0.43 |
| D-8-94 128.1-129.2 | 0.035 | | | 0.86 |
| D-8-94 129.2-134 | 0.020 | | | 0.10 |
| D-8-94 134-138 | 0.015 | | | 0.36 |
| D-8-94 138-142 | 0.017 | | | 0.35 |
| D-8-94 142-146 | 0.057 | 0.055 | | 2.98 |
| D-8-94 146-150.6 | 0.009 | | | 1.01 |
| D-8-94 150.6-154 | 0.197 | | 0.206 | 3.53 |
| D-8-94 154-158.5 | 1.105 | | 0.916 | 3.53 |
| D-8-94 158.5-160 | 0.027 | | | 0.15 |
| D-8-94 160-161.5 | 0.160 | | 0.140 | 1.32 |
| D-8-94 161.5-165.6 | 0.008 | | | 0.10 |
| D-8-94 165.6-170 | 0.303 | | 0.270 | 5.30 |
| D-8-94 170-175 | 0.048 | | | 0.75 |
| D-8-94 175-180 | 0.010 | | | 2.79 |
| D-8-94 180-185 | 0.009 | | | 0.24 |
| D-8-94 185-190 | 0.009 | | | 0.14 |
| D-8-94 190-195 | 0.030 | | | 0.31 |
| D-8-94 195-200 | 0.009 | 0.007 | | 0.08 |
| D-8-94 200-205 | 0.003 | | | 0.05 |
| D-8-94 205-210 | 0.002 | | | 0.03 |
| D-8-94 210-215 | 0.002 | | | 0.05 |
| D-8-94 215-220 | 0.002 | | | 0.04 |