# DIAMOND DRILL LOG

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| | | | | | | |
|---|---|---|---|---|---|---|
| Property ISLAND MINING - JL CLAIMS | NTS 105 D/2 | Claim JL | Elevation | Azimuth 135° | Length 301' | Dip -65° |
| Coordinates | Dip Tests -63 at EOH. | Advance | Depth | Date Collared JULY 16/87 | Date Completed JULY 18/87 | |
| Purposes TEST STRIKE OF MINZ'N INTERSECTED IN 87-WB3 | Drilled by CARON D.D. | Assays by ACME LABS. | Logged by HUGH MACKINNON & TERRY M. ELLIOT | | | |

| Interval From | Interval To | Rec'y % | RQD | DESCRIPTION | Sample No. | Interval From | Interval To | Core Width | |
|---|---|---|---|---|---|---|---|---|---|
| 0 | 31' | | | OVERBURDEN - soil recovered from 21-27' | | | | | |
| 0 | 37 | 25 | 0.35 | | | | | | |
| 31' | 33.3' | | | RUSTY M. GR. to C. GR. INTRUSIVE | | | | | |
| | | | | - 5-7% altered mafics. | | | | | |
| 33.3 | 37' | | | RUSTY DARK GREEN ANDESITE | | | | | |
| | | | | - hair/lic to 3mm. Q - Carb. vns. | | | | | |
| | | | | - sheared lwr. contact | | | | | |
| 37' | 63'(?) | | | LIGHT BROWN RHYOLITE PORPHYRY | | | | | |
| | | | | - 37.5' = fault gouge 4 cm. thick at 45° to c.a. | | | | | |
| | | | | - 5-10% 4-5 mm creme feldspar phenos in | | | | | |
| 37 | 91 | 88 | 0.03 | an aphanitic groundmass | | | | | |
| | | | | - abund rusty Carb alteration | | | | | |
| | | | | - rock is strongly fractured w. narrow zones of | | | | | |
| | | | | fault gouge less than 1 cm across. | | | | | |
| | | | | - 43.7' = Q - Fe carb. vn. w. minor py at 20° to c.a. | | | | | |
| | | | | - 54-56' - only pebbles of fgr. Rhya recovered; | | | | | |
| | | | | minor disseminated fract. PYRITE. | | | | | |
| | | | | - gradational lwr. contact into lightly bleached Gd. | | | | | |
| 63(?) | 69.5' | | | PORPHYRITIC GRAY F. GR. GRANODIORITE | | | | | |
| | | | | - 5-10% 4-6 mm. feldspar phenos which are rusty | | | | | |
| | | | | and altered to clay(?) | | | | | |
| 69.5 | 123.5' | | | BUFF-WEATHERING F GR FELDSPAR PORPHYRY | | | | | Au(oz/t) Ag(oz/t) |
| | | | | - 5% 3-4mm. clay alt'd, buff (eg golden brown) feldspars in a | 8443 | 90' (27.43m) | 95' (28.96m) | 5' | .010 .01 |
| 91 | 110 | 190 | 0 | F. gr. (<1mm.) groundmass. | | | | | |
| 110 | 124 | 80 | 0.29 | - 89.5' = breccia (0.5-1 cm. frags) w. minor py & | 8444 | 95' | 100' | 5' | .011 .04 |
| | | | | white Qtz. infilling | | | | | |
| | | | | - 90 to 95' = Abundant Q vns. 1mm - 1cm; minor | | | | | |
| | | | | pyrite | | | | | |
| | | | | - 95-100' = Fault gouge to 99' | | | | | |
| | | | | - 100-109.5' = " " - poor recovery | | | | | |

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| Interval From | Interval To | Rec'y % | RQD | DESCRIPTION | Sample No. | Interval From | Interval To | Core Width | Au (oz/ton) | Ag oz/ton | Cu | Pb | Zn | Ag | As | Au (ppb) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 100-105' = fault gouge | 8445 | 100 | 105' (32.0m) | 5' | .001 | .02 | | | | | | |
| | | | | 105-109.5' = " " | | | | | | | | | | | | |
| | | | | 112-113' = brecciated // core axis -Inn. contact ca. 45° to c.a. | 8446 | 105' | 110' (33.5m) | 5' | .001 | .03 | | | | | | |
| 123.5' | 134'2" (40.89m) | | | GREEN ANDESITE - abundant Q+carbonate VNS. up to 5 mm. wide. | | | | | | | Cu | Pb | Zn | Ag | As | Au (ppb) |
| | | | | -125' = 7cm. fault gouge | 8447 | 124.6' (37.96m) | 125'8" (38.35m) | 1'2" | | | 25 | 18 | 71 | .4 | 4 | 1 |
| 124 | 136 | 100 | 0.25 | - 125'8" - 127'6" : Moderately to strongly limonitically bleached + chloritized w/ Limonite, hematite or Fe carb along fractures Moderately foliated at 30° to C.A. | | | | | | | | | | | | |
| | | | | -127'6" : 7cm fault gouge | 8448 | 127' (38.71m) | 128'6" (39.14m) | 1'6" | | | 13 | 20 | 75 | .1 | 5 | 1 |
| | | | | -127'11" - 128'8" : Strong limonitic alteration, becoming more patchy at depth | | | | | | | | | | | | |
| | | | | -128'8" - 129'8" : Variably altered fault gouge both contacts irregular | 8449 | 128'8" (39.22m) | 129'8" (39.52m) | 1' | | | 33 | 17 | 62 | .5 | 7 | 2 |
| | | | | - 129'8" - 132'6" : moderately chloritized + foliated dark green, weakly porphyritic w/ 15 mm qtz-carbonate vn breccia at 130'. Vn may be 2 generations, + is weakly hematized (particularly along rims) + has tr py, cpy + bornite (?). Vn oriented @ 33° to C.A. | 8450 | 129'8" | 130'8" (39.83m) | 1' | | | 108 | 17 | 92 | .4 | 2 | 2 |
| | | | | -132'6" - 134'6" : Upper contact @ 15° to C.A. ; Limonitically altered fault gouge grading into chlorite + Fe carbonate altered fault gouge, Lower contact sharp @ 30° to C.A. | 8601 | 132'6" (40.39m) | 134'6" (40.99m) | 2' | | | 8 | 17 | 62 | .3 | 9 | 1 |
| 134'2" | 162' (49.38m) | | | BUFF BROWN ALT'D + QUARTZ VEINED RHYOLITE PORPHYRY (MINERALIZED) | | | | | | | | | | | | |
| 136 | 159.5' | 0 97 | 0.03 | Buff brown to pinkish brown, w/ 7-15% 1 mm feldspar phenocrysts in an aphanitic matrix. Pervasive + fracture filling moderate to strong limonite + fe carb alteration throughout. ≤ 2% hairline to 5mm q.v. ; few stockworks. | | | | | | | | | | | | |

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| Interval From | Interval To | Rec'y % | RQD | DESCRIPTION | Sample No. | Interval From | Interval To | Core Width | Cu | Pb | Zn | Ag | As | Au |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1-2% ≤ 1.5mm diss, gv or fracture filling py. | | | | | | | | | | |
| | | | | - 134'2" - 138' : Strongly altered & brecciated, w/ tr-1% galena either w/py in groundmass, | 8602 | 134'2" | 136' | 1'10" | 10 | 67 | 86 | .7 | 10 | 720 |
| | | | | | 8603 | 136' | 137' | 1' | 6 | 60 | 93 | .4 | 2 | 14 |
| | | | | or in q.v., main galena bearing vn 3mm | 8604 | 137' | 138' | 1' | 3 | 680 | 141 | 1.7 | 7 | 49 |
| | | | | grey quartz vn at 65° to C.A. | | | | | | | | | | |
| | | | | - 138' - 143' : V. blocky & broken core. 3mm | 8605 | 138' | 143' (43.59m) | 5' | 17 | 161 | 217 | 1.1 | 6 | 240 |
| | | | | q.v. at 138'6". | | | | | | | | | | |
| | | | | - 143' - 148'6" : Mostly blocky & broken core, | 8606 | 143' | 146' | 3' | 5 | 169 | 141 | 1.1 | 7 | 112 |
| | | | | moderate sericitization, Fe ox & carb alt. | 8607 | 146' (44.50m) | 151' (46.02m) | 5' | 3 | 76 | 83 | .6 | 5 | 24 |
| | | | | Up to 5% euhedral py in veinlets | | | | | | | | | | |
| | | | | - 148'6" - 152' : Pinkish brown, moderate pervasive | 8608 | 151' | 152' (46.33m) | 1' | 9 | 88 | 96 | .8 | 6 | 3 |
| | | | | Fe ox & Fe carb altered, w/ 25% ≤1mm | | | | | | | | | | |
| | | | | subhedral to euhedral feldspar xtals, partially | | | | | | | | | | |
| | | | | silicified w/ 1% ≤ 3mm q.v., either | | | | | | | | | | |
| | | | | individual or as a collection of stringers. | | | | | | | | | | |
| | | | | Tr py. | | | | | | | | | | |
| 152' | 200' | 93 | 0.95 | - 152' - 159'6" : Brecciated, w/ py bearing | 8609 | 152' | 159'6" (47.09m) | 2'6" | 16 | 138 | 211 | .6 | 8 | 25 |
| | | | | carb-qtz-ankerite(?)-limonite veins. | | | | | | | | | | |
| | | | | - 159'6" - 162' : ≤5% diss fine grained py ; | 8610 | 159'6" | 159'6" | 5' | 15 | 175 | 149 | .6 | 5 | 1 |
| | | | | ≤30% ≤ 4mm feldspar xtals, may be | 8611 | 159'6" | 162' (49.38m) | 2'6" | 4 | 114 | 88 | .4 | 16 | 270 |
| | | | | a Q.F.P. ; matrix alt'd as before. | | | | | | | | | | |
| | | | | ≤ 3% hairline q.v., variable degrees | | | | | | | | | | |
| | | | | of chloritic alteration. 160'8" 4mm | | | | | | | | | | |
| | | | | qtz-chlorite-albite(?) vein at 15° to | | | | | | | | | | |
| | | | | C.A. Lower contact gradational. | | | | | | | | | | |
| | | | | may be a mix of rhyolite porphyry & | | | | | | | | | | |
| | | | | altered granodiorite. 155' tr-1% gn. | | | | | | | | | | |
| 162' | 199'6" (60.81m) | | | DARK GREEN ALT'D MEDIUM GRAINED QUARTZ MONZONITE (W/ MINERALIZED VEINS) | | | | | | | | | | |
| | | | | Dark green to pink, Strong to moderate pervasive | | | | | | | | | | |
| | | | | chloritization w/ mafics ≤ 30%. | | | | | | | | | | |
| | | | | Strongly sericitized ajacent to qtz vns & | | | | | | | | | | |
| | | | | vnlts, w/ ≤ 8% euhedral ≤ 15mm py in | | | | | | | | | | |
| | | | | altered areas. Galena occurs only in graywhite | | | | | | | | | | |
| | | | | veins & veinlets. as up to 4mm xtal | | | | | | | | | | |

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| Interval From | Interval To | Rec'y % | RQD | DESCRIPTION | Sample No. | Interval From | Interval To | Core Width | | Cu | Pb | Zn | Ag | As | Au |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | aggregates. Pervasive moderate carbonatization (calcite & Fe carb.) especially along fractures. | | | | | | | | | | | |
| | | | | | 8612 | 162' | 167' | 5' | | 8 | 31 | 77 | .3 | 3 | 40 |
| | | | | -162'-168'9": moderately altered, patchs of strong chloritization. 2% ≤ 5mm qtz-chlorite vns. | 8613 | 167' (50.90m) | 168'8" (51.41m) | 1'8" | | 16 | 46 | 93 | .3 | 7 | 4 |
| | | | | -168'8"-170'6": 3% Gn in qtz-chlorite(10%)-albite(?) veins & vnlts at 70-80° to C.A. | 8614 | 168'8" | 170'6" (51.97m) | 1'10" | Assay Au, Ag Geochem: Pb, Zn, As, Sb, Cu | 3 | 1293 | 207 | 2.1 | 11 | 380 |
| | | | | -170'6"-172': As above but 15mm wide & 5°-15° to C.A. & more chloritic. Albite(?) usually concentrated near centre of vein while chlorite occurs toward rims of vein. Very strong alteration adjacent to vein. Vn has many small splays. | 8615 | 170'6" | 172' (52.43m) | 1'6" | " + Special Prep | 4 | 1207 | 176 | 2.4 | 15 | 700 |
| | | | | -172'-176': Tr to 1% gn, slightly more Fe alt'd & carbonatized than above, becomes more chloritized at depth. | 8616 | 172' | 174' | 2' | Assay Au, Ag | 6 | 41 | 125 | .3 | 6 | 8 |
| | | | | | 8617 | 174' (53.04m) | 176' (53.65m) | 2' | " " " | 6 | 116 | 231 | .4 | 7 | 10 |
| | | | | -176'-179': strongly chloritized particularly along qtz vns. Tr to 1% gn. END OF MINERALIZATION | 8618 | 176' | 178' | 2'. | | 19 | 417 | 508 | 1.3 | 3 | 5 |
| | | | | | 8619 | 178' | 179' | 1' | | 16 | 173 | 140 | .9 | 8 | 1 |
| | | | | -179'-199'6": slightly coarser xtal size (≤3mm) better granitic texture, less altered. Strong carbonatization along vns & fractures. Chloritic alteration moderate to weak at depth; usually as a replacement of biotite(?). Lower contact strongly alt'd (Fe+chl), sharp but irregular at 5-15° to C.A. | 8620 | 179' (54.56m) | 184' | 5' | | 20 | 14 | 46 | .2 | 7 | 2 |
| 199'6" (60.81m) | 207' (63.09m) | | | PINKISH BROWN RHYOLITE PORPHYRY | | | | | | | | | | | |
| 200' | 330' | 62 | 0.10 | 10% 1-2mm euhedral to subhedral sericite or clay (illite?) alt'd feldspar xtals in an aphanitic matrix. Matrix commonly fe carb or sericitically altered. 1% ≤2mm q.v.; ≤3mm euhedral rusty py cubes along fracture planes & veins. | | | | | | | | | | | |

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| Interval From | Interval To | Rec'y % | RQD | DESCRIPTION | Sample No. | Interval From | Interval To | Core Width | Cu | Pb | Zn | Ag | As | Au |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | -200'6" - 202' : Sericitically bleached minor q.v. | 8621 | 200' | 203' | 3' | 6 | 172 | 189 | .5 | 11 | 37 |
| | | | | - 202' - 207' : Mostly broken core | 8622 | 203 | 207' | 4' | 6 | 345 | 177 | 1.0 | 9 | 250 |
| | | | | | | 5' 5" | 63.09m | | | | | | | |
| 207' | 219' (66.75m) | | | GREENISH BROWN ALT'D MEDIUM GRAINED QUARTZ MONZONITE | | | | | | | | | | |
| | | | | moderate to strongly alt'd to; chlorite (up to 40% of core), Fe carbonate, limonite & calcite. Blocky & broken core 215' - 219'. Fractures commonly 40° & 70-80° | | | | | | | | | | |
| 219' | 230' (70.10m) | | | PINKISH BROWN RHYOLITE PORPHYRY | | | | | | | | | | |
| | | | | As before. Fe carb & ox altered, calcite along fractures. Blocky & broken core poor recy. | | | | | | | | | | |
| 227' | | | | Switch to NQ core | | | | | | | | | | |
| 230' | 245'6" (74.87m) | | | GREENISH BROWN MEDIUM GRAINED QUARTZ MONZONITE | | | | | | | | | | |
| 230' | 260' | 78 | 0.25 | As before but less altered. 30-45% chlorite either pervasive alt [236'6" - 237'6"] or as replacements of matic minerals (biotite?). 1-2mm feldspars weakly to moderately altered to Fe carbonate. Tr py. Blocky & broken core 238' - 239' & 243' - 245'6" | | | | | | | | | | |
| 245'6" | 286' (87.17m) | | | BUFF BROWN RHYOLITE PORPHYRY | | | | | | | | | | |
| | | | | Buff to pinkish brown, w/ 7-12% 1-2mm subhedral feldspar phenocrysts in an aphanitic matrix. Weak to moderate Fe-carb & ox & sericitic alteration. | | | | | | | | | | |
| 260' | 286' | 70 | 0.09 | Carbonate & limonite altered fractures w/ up to 10% ≤ 2mm subhedral py xtals. | 8623 | 251' | 256' | 5' | 7 | 42 | 53 | .3 | 12 | 4 |
| | | | | | 8624 | 261' (79.55m) | 266' (81.08m) | 5' | 7 | 24 | 37 | .7 | 2 | 2 |

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# DIAMOND DRILL LOG

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| Interval From | Interval To | Rec'y % | RQD | DESCRIPTION | Sample No. | Interval From | Interval To | Core Width | CU | PB | ZN | AG | AS | AU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Minor py bearing qtz veins ≤ 2mm. Vein & fracture orientation commonly 50° to C.A | 8685 | 271 | 276 | 5' | 7 | 28 | 41 | .2 | 2 | 1 |
| | | | | Blocky & broken core; 255' - 256', 258' - 261', 262' - 265'; 272' - 286'. | | | | | | | | | | |
| 286' | 301' | | | DARK GRAY ALT'D MEDIUM GRAINED QUARTZ MONZONITE | | | | | | | | | | |
| | | | | Moderate to strong chloritic & carbonate alteration. | | | | | | | | | | |
| 286 | 301 | 93 | 0.98 | Mafic minerals comprise ≤ 40% of rock & are altered to chlorite or Fe carbonate. Intensity of carbonatization & chloritization increases with depth. Minor argillic alteration (illitization?) of Kspar(?) at depth. | | | | | | | | | | |
| | | | | 10mm carbonate (calcite) - chlorite vn(s) at 287'6". | | | | | | | | | | |
| | | | | 1-2% fractures & vns of several generations commonly 70° & 10° to C.A, but variable. | | | | | | | | | | |

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