

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|-------------|---|----------------|----------------------------|
| 0.00 TO 18.30 | OVERBURDEN «OB» | | | | | |
| 18.30 TO 22.40 | QUARTZ EYE FELSIC TUFF «F TUFF, QP» | colour: orangish cream grain: fi. gr. -3-5% <1mm rounded quartz eyes. Weakly foliated, moderate surface oxidation. Faulted lower contact Foliation: 20.3 | 35 | «W SER» | 1% py | |
| 22.40 TO 25.00 | FAULT ZONE «FAULT» | colour: med. brown -brown oxidized clay fault gouge with 1-2% <1 cm felsic fragments. | | | | -strong surface oxidation. |
| 25.00 TO 27.30 | DIORITE «DIOR» | -colour: dark green -grain: fi.gr. -pervasive speckled appearance by 20 - 25% 1mm white, orange white specks of feldspar, weak surface oxidation. Gougy brown oxidized lower contact. | | «M CHL» -moderate chlorite alteration of groundmass. | | |
| 27.30 TO 29.35 | FELSIC LITHIC TUFF «F. LITH TUFF» | colour: light/orange brown grain: fi. gr. -weak to moderately foliated accented by moderate surface oxidation. 3-5% 1-2mm grey felsic lithic grains in a finer grained groundmass. Foliation: 28.9 | 50 | -Moderate surface oxidation overprinting alteration. «Weak Sericite?» | | |
| 29.35 TO 30.10 | DIORITE «DIOR» | colour: med. green grain: fi.gi. -feldspar porphyritic, brecciated with chlorite quartz veining stockwork. | | «Chl qtz hs» | | |
| 30.10 TO 50.00 | FELSIC - INTERMEDIATE FP CRYSTAL LITHIC TUFF «FP F-I TUFF» | colour: med. green grain: coarse ash -15-20% 1-2mm whitish grey rounded granules of mainly weakly sericitized, weakly epidotized feldspars and 3-5% greyish felsic lithic granules. Weakly biotitic groundmass 33.5-44.2 moderate surface oxidation, brownish discolouration. lower contact rubbly core, minor gouge. Foliation: 38.4 | 50 | «W ser, ep, biot» weak sericite/epidot alterations of feldspars, weak brotite within groundmass. | <1% py | |

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| 50.00 TO 52.90 | FELSIC TUFF «F TUFF» | colour: light grey grain: fi. gr. -weakly foliated, very rare quartz eyes, mainly aphyric. Patchy brown discoloration. Foliation: 50.6 | 35 | «W ser» | « 1-2% py» | |
| 52.90 TO 60.50 | INTERMEDIAT TUFF «I TUFF» | colour: med. green grain: fi. m. ash -fine granular appearance of 7-8% 1mm whitish green weakly epidotized grains, possible feldspars and 4-1% grey siliceous felsic granules. Weakly foliated/indistinctly bedded. Foliation 56.0 57.9 - 58.4; felsic tuff, light grey minor brown oxidation. | 50 | «W ser» | «1% po, <1% py» 1% finely disseminated pyrrhotite ‡57.9 - 60.5‡«1% po, 4% py» «1% sp, tr cpy» 4% finely disseminated wispy sphalerite, parallel with foliation. 58.5 2mm wide sphalerite layer, minor chalcopyrite. | -very reworked looking. |
| 60.50 TO 87.80 | DIORITE «DIOR» | colour: dark green grain: m. gr. -Feldspar porphyritic becoming weakly equigranular towards core of intrusive. ‡70.7 - 71.4‡«F. ASH, CHERT» felsic ash and chert: light grey, finely bedded, some distorted bedding. Bedding: 71.3 | 45 | «Patchy qtz - chl vns» | ‡70.7 - 71.4‡«<1% py <0.5% sp.tr cpy» 4% py, <0.5% sphalerite, and trace chalcopyrite disseminated parallel to bedding. | |
| 87.80 TO 93.85 | FELSIC TUFF «F. TUFF» | colour: light grey green grain: fi. gr. -Distinctly layered with creamy grey, darker green banding at <1cm 89.4 2 1/2 cm brecciated chert unit. Sharp lower contact to mineralized interval at 89.4m Below 91.3 unit becoming mottled light green - indistinctly fragmental with 3% 2-3mm round grey quartz grains. | | «W ser, W-Msil» -weakly sericitic and silicified. Moderately silicified below 91.3m | «1% py, tr po, cpy» 88.9 - 89.4 3-5% py, 1-2% pyrrhotite, <1% chalcopyrite disseminated and as 1-2mm layers. 90.95 - 91.3 10% pyrrhotite, 2-3% pyrite, trace chalcopyrite. Pyrite finely disseminated at top of interval. | |
| 93.85 TO 108.30 | DIORITE «DIOR» | colour: dark green grain: fi. gr. -Massive, feldspar porphyritic with 5-7% 2-4mm white ragged feldspar crystals. Minor oxidation along fracture planes. | | | | |

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| 108.30 TO 115.40 | FELSIC TUFF, LAPILLI, TUFF «F TUFF, LAP? TUFF» | colour: light grey grain: fi. gr. -108.3 - 111.9 banded appearance = fragments <1cm. Layering at 50-65: 111.9 3cm possible chert or very silicified ash. -Below 111.9 core takes on a streaky appearance due to green 1mm X 1-2cm sericite wisps. Some interval generally aphyritic. sharp lower contact | 60 | «Patchy W sil» -weakly silicified mainly below 111.9. | tr py. | |
| 115.40 TO 129.20 | DIORITE «DIOR» | colour: dark green grain: fi. m. gr. -massive, feldspar porphyritic with 2-3% feldspars near contacts to 15-20% fsp and very weakly equigranular at core of interval. First 1.5m leucoxene phytic. | | -Rare quartz, chlorite, carbonate veins. | | |
| 129.20 TO 150.70 | INTERMEDIATE LAPILLI TUFF «ILAP TUFF» | colour: med. to dark grey grain: c. gr. -Flattened <1-9cm, light grey fine grained felsic fragments in a dark grey green speckled intermediate tuff groundmass with 1-2mm moderately epidotized feldspars. 135.4- 138.0: minor groundmass, predominantly felsics = large fragments. 139.0 - 143.5 Lacking epidotized feldspars and only occasional felsic fragments. Layering: 139.6 143.5 - 150.7: groundmass more andesitic looking, dark green 10-15% epidote grains. Gradational lower contact over 25-30cm. | 40 | «Patchy M ep» -Patchy epidote as altered feldspars. | «<1% py» -<1% pyrite -intervals as follows with weak base metal mineralization. 133.5 - 134.0: 2% disseminated pyrite trace chalcopryrite and sphalerite. 1mm sphalerite layers (veinlets) at 139.6, 140.2, 141.6. | |
| 150.70 TO 163.50 | FELSIC TUFF, LAPILLI TUFF? «F TUFF, LAP? TUFF» | colour: light green grain: fi. gr. -weakly foliated fine grained tuff with patchy zones of indistinctly outlined possible fragments giving core a weak mottled coloration. Numerous zones of distorted foliations. Rubbly lower contact. Foliation: 153.5 | 45 | «W ser» -weakly sericitic | «<1% py» | |

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| 163.50 TO 203.20 | ANDESITE TUFF «AND TUFF» | <p>colour: green grain: fi. gr. -10-15% 1-2mm moderately epitotized feldpars and occasional <1cm epidotized fragments. ‡167.25 - 171.1‡«F. LAP TUFF» -Felsic lapilli tuff 4mm - 4cm felsic fragments in a ffelsic and argillaceous groundmass. First 8cm pyritic mud, argillite layers at 65 to core axis. 170.6 - 171.0 mainly a pyritic mud matrix. Minor mixing of felsic and andesite from 171.0 - 171.1 Bedding: 171.1 Contact: 171.4 -Felsic dykes as follows with blue white quartz eyes and green epidote grains. 173.05 - 175.2 Contact: 175.2 175.3 - 177.8 Contact: 177.8 180.3 - 182.2 177.8 - 180.3 3-5% 0.5 - 2 cm epidotized fragments in a weak to moderately chloritic groundmass. 182.2 - 184.5: Mafic dyke. Dark green, fi. gr. weakly sheared, leucozent phyrlic. 184.5 - 192.3: 5-7% whitish green, weakly epidotized feldspars. 192.3 unit becoming weakly foliated/sheared. 195.1 - 200.8 moderately sheared and brecciated minor fault gouge. 200.8 - 203.2: Fault gouge: creamy grey, dark grey and green clay fault gouge with andesite fragments and in last 40cm felsic fragments.</p> | 65 65 55 60 | <p>«Patchy M ep» -Patchy epidote as altered feldspars and fragments.</p> | <p><1% py</p> <p>‡167.25 - 171.1‡«5% py» 5% finely disseminated pyrite. Argillaceous rich zones may contain mor pyrite but too fine to see.</p> <p>177.8 - 180.3 3-4% disseminated pyrite.</p> | |
| 203.20 TO 213.80 | FELSIC TUFF «F TUFF» | <p>colour: light green grian: fi. gr. -fine aphyric tuff, strongly silicified, strongly brecciated with minor fault gouge and occasional calcite gash fillings. Faulted lower contact.</p> | | <p>«S sil» strongly silicified.</p> | tr py | -similar to felsic tuff in DDH 162 from 14 - 25 m |
| 213.80 TO 214.40 | FAULT ZONE «FAULT» | <p>colour: light grey -Brecciated and fragmented grey fine grained felsic tuff in a light green weakly gougy groundmass. 3 cm black gougy arillite (Nanaimo) at top of interval and 1 cm at base.</p> | | | | |

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| 214.40 TO 223.00 | MAFIC DYKE «M DYKE» | colour: dark green grain: fi. gr. -massive, moderately brecciated with abundant calcite veinlets. 2-3% mm leucoxene sheared upper contact from 214.4 - 215.2 | | «calc vns» | | somewhat similar to finer grained phase of mafic dyke in DDH 162. |
| 223.00 TO 230.70 | NANAIMO ARGILLITE «NANAIMO» | colour: black grain fi. gr. -weakly foliated, carbonaceous partings, weak calcite veinlets. First 20cm gougy core, occasional fine grained light grey sandstone interbeds. Bedding: 227.8 | 50 | | | |

| Sample | From (m) | To (m) | Length (m) | ESTIMA Cu ppm | ASSAYS | | | | | GEOCHEMICAL | | | | | SUL % | COMMENTS | | | | | | | | |
|----------|-------------|-----------|---------------|---------------------|-----------|-----------|-----------|-----------|-----------|-------------|---------|---------|------------|-----------|----------|----------|------------|-----------|---------|----------|------------|--|--|--|
| | | | | | Pb ppm | Zn ppm | Ag ppm | Au ppb | Ba ppm | Cu % | Pb % | Zn % | Ag oz/t | Ag g/T | | | Au oz/t | Au g/T | Ba % | SG SG | NSR NSR | | | |
| 13146 | 50.30 | 52.90 | 2.60 | 201 | 19 | 332 | 1.1 | 5 | | | | | | | | | | | | | 0.0 | | | |
| 13147 | 57.90 | 58.40 | 0.50 | 364 | 14 | 690 | 1.4 | 34 | | | | | | | | | | | | | 0.0 | | | |
| 13148 | 58.40 | 59.40 | 1.00 | 448 | 20 | 2800 | 1.2 | 4 | | | | | | | | | | | | | 0.0 | | | |
| 13149 | 59.40 | 60.50 | 1.10 | 259 | 16 | 1480 | 1.4 | 3 | | | | | | | | | | | | | 0.0 | | | |
| 13150 | 70.70 | 71.40 | 0.70 | 183 | 9 | 620 | 1 | 2 | | | | | | | | | | | | | 0.0 | | | |
| 13178 | 87.80 | 88.90 | 1.10 | 92 | 10 | 62 | 0.6 | 2 | | | | | | | | | | | | | 0.0 | | | |
| 13179 | 88.90 | 89.40 | 0.50 | 1900 | 14 | 84 | 1.3 | 19 | | | | | | | | | | | | | 0.0 | | | |
| 13180 | 89.40 | 90.95 | 1.55 | 408 | 12 | 101 | 1 | 14 | | | | | | | | | | | | | 0.0 | | | |
| 13181 | 90.95 | 91.30 | 0.35 | 1110 | 17 | 42 | 1.4 | 24 | | | | | | | | | | | | | 0.0 | | | |
| 13182 | 139.30 | 140.55 | 1.25 | 53 | 13 | 880 | 0.9 | 2 | | | | | | | | | | | | | 0.0 | | | |
| 13183 | 140.55 | 141.80 | 1.25 | 447 | 14 | 2600 | 1.1 | 3 | | | | | | | | | | | | | 0.0 | | | |
| 13184 | 167.25 | 168.50 | 1.25 | 36 | 11 | 51 | 0.6 | 2 | | | | | | | | | | | | | 0.0 | | | |
| 13185 | 168.50 | 169.80 | 1.30 | 20 | 10 | 34 | 0.6 | 2 | | | | | | | | | | | | | 0.0 | | | |
| 13186 | 169.80 | 171.40 | 1.60 | 51 | 12 | 36 | 0.5 | 4 | | | | | | | | | | | | | 0.0 | | | |
| ALT.AVG. | 57.90 | 60.50 | 2.60 | 351.88 | 17.154 | 1835.8 | 1.32 | 9.3462 | | | | | | | | | | | | | | | | |
| ALT.AVG. | 139.30 | 141.80 | 2.50 | 250.00 | 13.500 | 1740.0 | 1.00 | 2.5000 | | | | | | | | | | | | | | | | |

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17214 | 18.30 | 22.40 | 4.10 | 14.33 | 0.162 | 1.91 | 3.49 | 2.57 | 0.75 | 0.04 | 3.04 | 0.01 | 67.98 | | 0.28 | | 0.08 | 94.64 | 0.5 | 1 | 34 | 22 | 10 | 1 | 19 | 10 |
| 17215 | 44.20 | 46.60 | 2.40 | 16.98 | 0.052 | 7.48 | 8.81 | 1.87 | 5.29 | 0.22 | 2.36 | 0.07 | 52.33 | | 0.63 | | 0.08 | 96.18 | 1.1 | 25 | 145 | 108 | 50 | 3 | 102 | 5 |
| 17216 | 110.50 | 113.30 | 2.80 | 13.82 | 0.072 | 1.36 | 2.81 | 2.07 | 1.32 | 0.08 | 3.8 | 0.01 | 70.98 | | 0.32 | | 0.12 | 96.76 | 0.5 | 10 | 92 | 36 | 24 | 1 | 37 | 10 |
| 17217 | 137.20 | 139.30 | 2.10 | 14.67 | 0.129 | 3.15 | 4.92 | 3.14 | 2.19 | 0.2 | 2.52 | 0.01 | 64.8 | | 0.39 | | 0.36 | 96.48 | 0.8 | 8 | 93 | 125 | 30 | 1 | 112 | 5 |
| 17218 | 152.10 | 155.10 | 3.00 | 14.26 | 0.122 | 1.05 | 3.44 | 3.12 | 2.53 | 0.12 | 2.43 | 0.01 | 66.21 | | 0.3 | | 0.28 | 93.87 | 0.6 | 19 | 117 | 24 | 39 | 1 | 61 | 5 |
| 17219 | 188.70 | 191.70 | 3.00 | 14.27 | 0.039 | 4.55 | 6.36 | 0.51 | 4.89 | 0.29 | 3.33 | 0.02 | 61.7 | | 0.46 | | 0.03 | 96.45 | 1.1 | 34 | 178 | 305 | 53 | 4 | 144 | 5 |
| 17220 | 204.20 | 207.20 | 3.00 | 13.4 | 0.022 | 1.48 | 2.44 | 0.98 | 1.82 | 0.03 | 5.02 | 0.01 | 69.88 | | 0.23 | | 0.16 | 95.48 | 0.4 | 16 | 40 | 10 | 27 | 1 | 27 | 5 |

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| 0.00 TO 3.60 | «OB» | | | | | |
| 3.60 TO 56.46 | Felsic to Inter. Qtz Feldspar Porphyry Tuff «QFP TUFF» | <p>Colour: Medium grey green Grain Size: Medium</p> <p>Thickly bedded; moderately foliated 2-3% Quartz eyes to 2mm; 5% wh to ghosty (very indistinct shapes) feldspar crystals to 1mm</p> <p>6.90 - 8.00m Fault at to 35 40 Very strong sheared with abundant gouge seams</p> <p>8.44 - 10.35m Andesite Ash; (dyke ?); dark green; very fine grained; appears to be finely laminated or bedded Between 9.18 and 9.50m minor shearing and gouge seams</p> <p>CAF at 11.70m 28</p> <p>14.50 - 15.10m Abundant quartz veins, with minor shearing</p> <p>18.25 - 18.93m 100% quartz veins in a section that may have been an Andesitic Ash</p> <p>18.93 - 18.95m Fault 50</p> <p>24.88 - 26.98m Andesite Ash to Lithic Tuff (Diorite ?); below 25.95m the interval contains abundant quartz grains and has a very clastic appearance</p> <p>29.15 - 29.28m Andesite Ash upper contact 40 lower contact 40</p> <p>36.85 - 41.63m Andesite Ash CAB at 39.85m 40 CAB at 41.63m 45</p> | | <p>Weak to moderate chlorite and sericite development on foliation surfaces Has a distinctive veiny or patchy chloritic development Also, patchy bleaching, silicification Between 3.60 and 8.44m abundant iron carbonate staining</p> <p>Weakly calcareous, moderate to strong on upper contact</p> <p>Well developed chlorite on foliation surfaces; moderate to locally strongly calcareous; abundant patchy carbonate</p> <p>Moderate to strongly calcareous</p> | <p>Trace disseminated pyrite, also possible very rare chalcopyrite Locally very finely laminated pyrite</p> <p>Trace to 1% disseminated, weakly laminated fine grained pyrite</p> <p>Trace disseminated pyrite to locally 1% Weakly laminated</p> | <p>Interval has a pseudobreccia like texture as a result of the chlorite development and the patchy silicification; locally it has a very granular look Between 19.20 - 24.88m, the interval has a more distinctive fragmental look</p> <p>Interval locally disrupted by minor quartz veining</p> <p>Locally very clastic looking</p> |

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| | | 1cm CAF at 78.75m 90.30 - 91.30m Minor Shearing 94.55 - 99.60m 99.60 - 101.52m Intermediate ash; dark grey green, fine to medium grained Contains minor lapilli to 5mm 101.52 - 114.90m 108.10 - 108.50m Intense sheared, minor gouge 108.50 - 111.80m Fault 111.80 - 113.25m Fault Intermediate Ash, very fine grained 113.25 - 114.90m Fault | 39 40 40 | Common patchy silicification and bleaching Common Chlorite veining and patchy development Local intense silicification Well developed chlorite on foliation surfaces; local moderate calcareous Local intense bleaching and silicification Moderate to well developed sericite and minor chlorite on foliation surfaces | Local patchy medium to coarse grained pyrite, up to 2% over narrow intervals 2-3% disseminated patchy medium to coarse grained pyrite, trace sphalerite on upper contact Rare trace sphalerite 2-3% disseminated patchy, fine to medium grained pyrite Trace disseminated pyrite | The alteration effects give this interval a fragmental look Has a muddy appearance This interval looks more like the zone in 214 (216) Between 108.80 and 111.80m, <50% recovery; core very rubbly, minor gouge Lower contact unclear, <40% recovery between 111.80m and 116.40m; "This looks like zone in 214" Core very Broken and rubbly |
| 114.90 TO 116.40 | Felsic Tuff «F TUFF» | Colour: Light grey green Grain Size: Fine to medium grained Thin to moderate bedded Moderate to strongly foliated No distinctive textures 114.90 - 114.96m Fault 115.15 - 115.20m Fault 115.31 - 115.32m Fault 115.42 - 116.40m Intensely sheared, abundant gouge | 75 80 85 | Well developed sericite on foliation surface Well developed sericite and chlorite on | 114.90 - 115.42m 5% pyrite diss., laminated, fine to medium grained, trace chalcocopyrite, possible sphalerite <1% disseminated pyrite | |

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| | | 5% medium green lithic fragments, pumice? | | foliation surfaces | | |
| 116.40 TO 124.51 | Felsic Tuff «F TUFF» | <p>Colour: White to light grey, weak green cast Grain Size: Fine to medium grained</p> <p>Thick bedded massive, weak to moderate foliated 3-5% quartz eyes, <1mm to 3mm Feldspars very indistinct, locally clay alt <0.5mm 2-3% locally 5 medium to dark green lithic frags (pumice ?) giving the core a speckled appearance</p> <p>116.40 - 116.70m Fault Intensely sheared, abundant gouge</p> <p>117.28 - 117.37m Fault 118.40 - 118.41m Fault 119.63 - 119.64m Fault 119.76 - 119.81m Mafic Dyke 119.81 - 119.82m Fault 120.30 - 120.34m Fault 122.10 - 122.20m Fault</p> <p>122.20 - 124.26m Andesite Ash to Lithic Tuff, medium grained, abundant small lithic fragments to 2mm</p> <p>122.47 - 122.70m Fault Strongly sheared, abundant gouge</p> | 29 45 65 55 77 10 80 | Well developed sericite and chlorite on foliation surfaces | Trace to 0.5% disseminated minor patches fine to medium grained pyrite | May be a silicified equivalent of the lower interval |
| 124.51 TO 127.60 | Felsic Tuff «F TUFF» | <p>Colour: Light grey green Grain Size: Medium Grained</p> <p>Moderately bedded, moderately foliated <1% Quartz eyes, <1mm Feldspars are very indistinct 2-3%, locally 5% dark green lithic fragments to 3cm, generally <1cm flattened parallel to foliation (pumice ?)</p> <p>124.51 - 124.55m Andesite Ash</p> <p>127.05 - 127.60m Andesite Ash</p> | | Moderate to well developed sericite and chlorite on foliation surfaces | Trace disseminated pyrite | |
| | | | | | 1-2% disseminated, patchy, fine to medium grained pyrite, also trace chalcopyrite and pyrrhotite in | |

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| | | CAB at 127.60m | 36 | | stringers | |
| 127.60 TO 186.86 | Felsic Tuff «F TUFF» | <p>Colour: White to light grey Grain Size: Fine to medium grained</p> <p>Thick bedded, massive, weakly foliated 1% Quartz eyes <<1mm Feldspars are very indistinct <1% dark green lithic fragments, pumice?, generally <1cm x 1mm</p> <p>135.47 - 135.52m Fault</p> <p>136.27 - 141.30m Moderate sheared local gouge seams</p> <p>141.30 - 141.70m</p> <p>141.70 - 142.70m Andesite Tuff; intensely sheared</p> <p>142.70 - 168.86m</p> <p>142.70 - 144.70m</p> <p>145.72 - 145.90m Fault</p> <p>148.70 - 149.30m</p> <p>CAF at 156.57</p> <p>160.60 - 162.00m</p> <p>166.10 - 168.86m</p> <p>CAF at 167.00m</p> | 60 | <p>Patchy bleaching and silicification Moderate to well developed sericite and chlorite of foliation planes</p> <p>patchy chlorite alteration</p> <p>Patchy and veiny chlorite; locally these appear to be frags, 5-10%</p> <p>A weak pervasive epidote and chlorite alteration</p> | <p>Trace disseminated pyrite</p> <p>Locally 1% disseminated, laminated patchy fine to medium grained pyrite, rare to trace chalcopyrite</p> <p>Minor chalcopyrite stringers</p> <p>Minor quartz veins containing patchy chalcopyrite A very bronze coloured pyrite with the chlorite sections; not magnetic</p> | |
| | 168.86 EOH | | 20 | | | |

| Sample | From (m) | To (m) | Length (m) | ESTIMA GCu ppm | GPb ppm | GZn ppm | GAg ppm | GAu ppb | ASSAYS GBa ppm | Cu % | Pb % | Zn % | IAg oz/t | Ag g/t | IAu oz/t | GEOCHEMICAL | | | SUL % | | COMMENTS | |
|--------|-------------|-----------|---------------|----------------------|------------|------------|------------|------------|----------------------|---------|---------|---------|-------------|-----------|-------------|-------------|----------|------------|----------|--|----------|--|
| | | | | | | | | | | | | | | | | Au g/t | SG SG | NSR NSR | | | | |
| 13207 | 59.20 | 60.20 | 1.00 | 30 | 1380 | 1900 | 1.2 | 2 | | | | | | | | | | | | | | |
| 13208 | 99.60 | 100.49 | 0.89 | 120 | 190 | 910 | 1.4 | 5 | 2650 | | | | | | | | | | | | | |
| 13209 | 100.49 | 101.52 | 1.03 | | | | | | | | | | | | | | | | | | | |
| 13210 | 108.50 | 111.80 | 3.30 | 20 | 118 | 450 | 0.5 | 1 | | | | | | | | | | | | | | |
| 13211 | 111.80 | 113.25 | 1.45 | 120 | 108 | 1620 | 1 | 2 | | | | | | | | | | | | | | |
| 13212 | 113.25 | 114.90 | 1.65 | 105 | 103 | 274 | 0.6 | 2 | | | | | | | | | | | | | | |
| 13213 | 114.90 | 115.42 | 0.52 | | | | | | | | | | | | | | | | | | | |
| 13214 | 115.42 | 116.40 | 0.98 | 75 | 113 | 228 | 1 | 4 | | | | | | | | | | | | | | |
| 13215 | 122.20 | 123.40 | 1.20 | 240 | 71 | 230 | 1.4 | 3 | | | | | | | | | | | | | | |
| 13216 | 142.70 | 143.80 | 1.10 | 205 | 55 | 144 | 0.6 | 1 | | | | | | | | | | | | | | |
| 13217 | 148.70 | 149.30 | 0.60 | 125 | 215 | 262 | 0.4 | 3 | | | | | | | | | | | | | | |

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17251 | 10.50 | 13.50 | 3.00 | 12.03 | 0.04 | 4.82 | 3.03 | 1.17 | 2.21 | 0.16 | 4.08 | 0.15 | 64.6 | 0.18 | | | 0.46 | 92.92 | 0.5 | 24 | 43 | 6 | 22 | 4 | 42 | 5 |
| 17252 | 35.70 | 38.70 | 3.00 | 14.12 | 0.07 | 2.92 | 2.7 | 2.04 | 1.86 | 0.08 | 3.16 | 0.11 | 67.74 | 0.26 | | | 0.02 | 95.09 | 0.6 | 6 | 76 | 14 | 17 | 1 | 49 | 5 |
| 17253 | 66.10 | 69.10 | 3.00 | 14.63 | 0.08 | 1.96 | 1.94 | 2.53 | 1.07 | 0.05 | 3.19 | 0.08 | 70.64 | 0.22 | | | 0.13 | 96.52 | 0.5 | 14 | 114 | 3 | 6 | 1 | 35 | 10 |
| 17254 | 96.60 | 99.60 | 3.00 | | | | | | | | | | | | | | | | | | | | | | | |
| 17255 | 132.30 | 135.30 | 3.00 | 12.87 | 0.075 | 2.34 | 2.51 | 1.51 | 1.13 | 0.06 | 3.61 | 0.08 | 71.24 | 0.23 | | | 0.04 | 95.69 | 0.5 | 20 | 106 | 107 | 10 | 1 | 33 | 5 |
| 17256 | 157.20 | 160.20 | 3.00 | 14.25 | 0.06 | 1.7 | 2.38 | 1.86 | 1.01 | 0.04 | 4.2 | 0.07 | 70.31 | 0.27 | | | 0.03 | 96.2 | 0.2 | 1 | 85 | 5 | 11 | 1 | 28 | 5 |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|---|-------------|---|-------------------------------------|---------|
| 0.00 TO 3.00 | Overburden «OB» | | | | | |
| 3.00 TO 11.70 | QFP Tuff «QFP TUFF» | Colour: Light green grey Grain Size: Fine grained 2% <1-2mm round quartz eyes and up to 5% whitish feldspars Weakly foliated 3.0 - 6.6m Surface oxidation 7.2m Foliation irregular lower contact | 42 | Weakly sericitic along foliation planes 9.85 - 10.5m Quartz chlorite carbonate veining | 1% disseminated pyrite | |
| 11.70 TO 15.40 | Mafic Ash «M ASH» | Colour: Dark green Grain Size: Very fine grained ash Irregular weak foliation from 0 deg to 40-50 deg to core axis Aphyric Lower contact rubbly, minor clay gouge, contact angle? | | Moderate to strong carbonate alteration in the form of thin veinlets and larger carbonate quartz chlorite veins. Moderate pervasive chlorite alteration | 1% brassy pyrite as <1cm aggregates | |
| 15.40 TO 28.40 | QFP Tuff, FP Tuff, Fel Tuff «QFP, FP TUFF» | Colour: Light green grey Grain Size: Fine Grained Zones of QFP mixed with feldspar rich zone and zones lacking quartz eyes or feldspars QFP's with 2% 1-2mm quartz eyes and 2-3% feldspars Distinctive white speckled colour 15.4 - 16.8m Strong brecciated texture, minor iron, oxidation = fault zone 16.8 - 22.0m Occasional gougy zones as follows: 17.4m, 18.9m, 20.4m, 21.9m; no orientations available on gouge zones, rubbly core 15.4 - 20.4m QFP 20.4 - 28.4m Felsic Tuff lacking quartz eyes and only occasional fine feldspars. Same interval strong brecciated appearance and abundant sericite chlorite. | | Weak to moderate green sericite/ chlorite along foliation planes 20.4 - 28.4m Moderate sericite/ chlorite along foliation plane | Trace wispy pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|------------------------------------|---|----------------|---|--|---------|
| | | 20.8m Foliation | 43 | | | |
| 28.40 TO 40.10 | QFP Crystal Tuff «QFP TUFF» | <p>Colour: Medium green Grain Size: Fine grained</p> <p>2-3%, locally 5%, 1-3mm rounded shattered quartz eyes, and 3-5% and locally only 1% up to 7% whitish ratty feldspar crystals. Distinctive streaky green-white colouration.</p> <p>Foliations 28.6m 29.8m 39.1m</p> <p>33.9 - 34.9m Mafic Ash Dark green, fine grained, aphyric Sharp upper and lower contacts Lower contact somewhat irregular</p> <p style="text-align: right;">Upper Contact Lower Contact</p> <p>Gradation contact to main rock unit marked by decrease in carbonate and a change in colour to light creamy green</p> | 43 46 43 | <p>Strong streaky carbonate alteration Moderate sericite/chlorite alteration</p> <p>Weak patchy carbonate veining and veinlets Strongly chloritic</p> | Trace pyrite | |
| 40.10 TO 56.50 | (Q)FP Crystal Tuff «(Q)FP TUFF» | <p>Colour: Light creamy green Grain Size: Fine grained</p> <p>1% 1mm and local 2-3% 1-2mm shattered quartz eyes and up to 7-10% Whitish moderately clay altered feldspars. Distinctive light creamy green bleached appearance Weakly foliated Foliation 42.0m</p> <p>49.3 - 50.3m Mafic Ash Dark green, fine grained Abundant fragments of carbonate vein material (brecciated veins). Minor fragments of quartz Very shallow irregular upper contact, lower contact possibly at 55 deg</p> | 45 | <p>Weakly sericitic. Noticeably bleached appearance</p> <p>46.7 - 49.0m minor 1-2cm quartz veins</p> <p>Moderate to strongly chloritic alt</p> | <p>Trace disseminated pyrite</p> <p>1% disseminated pyrite</p> <p>51.05m 1-2cm stringer of mainly a steel grey flaky metallic mineral, 7-10% pyrite and trace galena and</p> | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|----------------------------------|--|-------------|---|----------------|---|
| 80.50 TO 85.40 | Felsic Tuff Flow? «F TUFF, FLOW» | Colour: Light green Grain Size: Fine grained Pervasive silicified look, aphyric, weak streaky green, rubbly core Base of unit brecciated or fragmental appearance over 1m | | Strongly silicified, probably a primary feature | Nil | Looks very similar to fragments mentioned up hole and to fragments in hole 216 at 97.5m |
| 85.40 TO 87.75 | QFP Tuff «QFP TUFF» | Colour: Light green Grain Size: Fine grained Weakly foliated 5-7% white mm feldspar <1-1% 1-2mm quartz eyes Foliation at 86.1m | 50 | Weakly sericitic | Nil | |
| 87.75 TO 89.30 | Felsic Tuff Flow? «F TUFF» | Colour: Light green Grain Size: Fine grained Patchy mottled and patchy green speckled appearance from 1-2mm Dark green sericite/chlorite clots | | Strong pervasive silicification -primary feature | Nil | |
| 89.30 TO 94.80 | QFP Crystal Tuff «QFP TUFF» | Colour: Light green Grain Size: Fine grained <1-2% 1-2mm quartz eyes 2-3% whitish altered feldspar Patchy crystal poor zones | | Weak Sericite | Nil | |
| 94.80 TO 96.10 | QFP Lapilli Tuff «QFP LAP TUFF» | Colour: Light green Grain Size: Fine grained Similar crystal tuff as above but with 1 x 4cm fine grained aphyric siliceous felsic fragments Matrix supported, <10% fragments 95.5 - 95.9m Crystal poor, weakly foliated tuff | | | | |
| 96.10 TO 118.30 | QFP Crystal Tuff «QFP TUFF» | Colour: Light green Grain Size: Fine grained 5% 1mm irregular and rounded quartz eyes and 10-15% mm white, very fresh looking feldspars Feldspar and quartz contents increase down hole, | | Patchy rare quartz carbonate veining with minor bleaching adjacent to veins | Nil | The fresh appearance of feldspar crystals differentiates this QFP from previous QFP units |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--------------------------------|---|--|---|----------------|---------|
| | | <p>especially quartz content. Quartz eyes increase to 2-3mm below 111.65m</p> <p>Foliations at 97.5m 100.0m 106.3m</p> <p>109.5 - 111.65m Mafic Dyke? Tuff? Dark green, fine grained, weakly foliated, minor fine disseminated carbonate, very fine disseminated tan leucoxene</p> <p> Foliation at 111.0m Sharp lower contact</p> <p>Massive QFP below mafic unit</p> <p>Sharp lower contact at 118.3m</p> | <p>40 35 25</p> <p>45 50</p> <p>40</p> | | | |
| 118.30 TO 134.20 | Mafic Dyke «M DYKE» | <p>Colour: Dark green Grain Size: Fine grained</p> <p>Weakly foliated, patchy Very fine disseminated tan leucoxene Weak streaky appearance from pervasive calcite and minor quartz carbonate veinlets</p> <p>Foliations at 121.1m 124.3m</p> <p>125.0 - 125.2m Screen of QFP Tuff</p> <p>Sharp lower contact</p> | <p>30 25</p> <p>40</p> | <p>Moderate pervasive chlorite Weak carbonate veining, minor pervasive calcite; weakly streaky</p> <p>130.9 - 131.75m Quartz carbonate chlorite veining</p> | Trace pyrite | |
| 134.20 TO 155.20 | QFP Crystal Tuff «QFP TUFF» | <p>Colour: Creamy grey green Grain Size: Fine grained</p> <p><1-1% locally 1-2% mm rounded shattered quartz eyes and 3-5% whitish clay altered feldspars Weakly foliated</p> <p>136.75 - 137.3m Gougy broken core</p> <p>138.25 - 138.45m Chloritic ash, Mafic Dyke?? Brecciated by carbonate veining</p> | | <p>Weakly sericitic Minor very patchy quartz/carbonate veinlets</p> | Trace pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|----------------------|--|--|--|----------------|---------|
| | | <p>Foliation at 139.9m</p> <p>142.1 - 146.7m Mafic Ash Dark green, fine grained, weakly foliated Minor gouge at broken upper contact</p> <p>Foliation at 143.2m 145.2m</p> <p>144.4 - 145.0 QFP Fragments up to 5cm</p> <p>Contact at 146.7m</p> <p>146.7 - 148.1m Mafic Dyke Dark green, fine grained Pervasive carbonate alteration producing white streaky appearance, much more noticeable than above unit Lower contact at 148.1m</p> <p>Gradational indistinct lower contact to main rock unit</p> | <p>45</p> <p>25 40</p> <p>40</p> <p>70</p> | <p>Pervasive fine calcite and fine calcite veinlets Moderately chloritic Increasing tan sericite towards lower contact</p> | | |
| 155.20 TO 181.50 | Felsic Tuff «F TUFF» | <p>Colour: Light grey Grain Size: Fine grained</p> <p>Weakly foliated, very fine granular texture, patchy mottled appearance. <1% <1mm shattered quartz grains Occasional zones with 3-4% white feldspar crystals</p> <p>158.6 - 159.1m Chloritic mafic ash Dark green, fine grain, strongly chloritic</p> <p>Foliation at 162.0m</p> <p>Chloritic ash screens as follows: 164.45 - 164.7m 165.0 - 165.2m</p> <p>Contacts at 164.45m 164.7m 165.0m</p> | <p>40</p> <p>40 20 20</p> | Weakly sericitic along foliation planes | Nil | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--------------------------|--|-----------------------------------|---|--|---------|
| | | <p>Foliation at 165.2m 167.0m 168.0m</p> <p>Below 168m quartz eye content may reach 2-3%</p> <p>Foliation at 172m</p> <p>180.5 - 181.5m Rubbly broken core</p> | <p>35 55 55</p> <p>40</p> | | | |
| 181.50 TO 185.35 | Mafic Ash? Flow? «M ASH» | <p>Colour: Dark green Grain Size: Fine grained</p> <p>Moderately foliated Very distinctive unit characterized by 1-2mm round green spots and 2-3% 2-6mm vesicles? filled with white calcite and rimmed by silver hematite and chlorite Rubbly broken core</p> | | <p>Moderate to strongly chloritic Streaky Strong sericite towards end of unit</p> | <p>Trace pyrite Trace chalcopyrite associated with 2cm quartz carbonate vein</p> | |
| 185.35 TO 199.60 | Felsic Tuff «F TUFF» | <p>Colour: Light grey Grain Size: Fine grained</p> <p>Very fine <0.5cm whitish specks, weak pervasive silicified appearance, <1% mm shattered quartz eyes</p> <p>192.0 - 198m Indistinct mottled fragmental appearance with 0.5-1cm possible whitish frags 193.5 - 194.6m Fault Zone. Gougy core, very poor recovery</p> | | <p>Weakly sericitic</p> <p>198.2 - 199.6m Weak to moderately sericitic</p> | <p><1% disseminated pyrite</p> | |
| 199.60 TO 201.80 | Mafic Ash «M ASH» | <p>Colour: Dark green Grain Size: Fine grained</p> <p>Moderately foliated, foliations distorted, folded, various orientations -fault zone within soft ashes bordered by more massive felsics Fine wispy appearance, aphyric, minor brecciated veining. Gougy core from 199.6 - 200.8m Irregular lower contact</p> | | <p>Strong sericite and chlorite to 200.8m, strong chlorite 200.8 - 201.8m</p> | <p><1% pyrite</p> | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------------|----------------------------------|---|----------------|------------|----------------|---------|
| | | 274.4 - 279.7m Losing patchy mottled look becoming massive and siliceous looking | | | | |
| 279.70 TO 281.90 | Mafic Dyke, Diorite «DIOR» | Colour: Dark green Grain Size: Fine grained 279.7 - 281.3m Fine mafic dyke with abundant streaky pervasive carbonate. Fine grained phase grading into feldspar phyric diorite at 281.1m Irregular upper contact 281.3 - 281.9m Diorite 281.3m contact between weakly feldspar phyric and stronger feldspar phyric diorite (separate pulses) | | | | |
| | E.O.H. | Contact at 281.3m | 53 | | | |

| Sample | From (m) | To (m) | Length (m) | ESTIMA GCu ppm | GPb ppm | GZn ppm | GAg ppm | GAu ppb | ASSAYS | | | | | GEOCHEMICAL | | | | | COMMENTS | | | |
|--------|-------------|-----------|---------------|----------------------|------------|------------|------------|------------|------------|---------|---------|---------|-------------|-------------|-------------|-----------|----------|------------|----------|----------|--|--|
| | | | | | | | | | GBa ppm | Cu % | Pb % | Zn % | IAG oz/t | Ag g/t | IAu oz/t | Au g/t | SG SG | NSR NSR | | SUL % | | |
| 13218 | 49.30 | 50.30 | 1.00 | 50 | 47 | 337 | 1 | 19 | | | | | | | | | | | | | | |
| 13219 | 50.30 | 51.25 | 0.95 | 125 | 63 | 109 | 0.5 | 24 | | | | | | | | | | | | | | |
| 13220 | 51.25 | 52.15 | 0.90 | 75 | 31 | 271 | 1 | 17 | | | | | | | | | | | | | | |
| 13221 | 243.10 | 244.00 | 0.90 | 180 | 73 | 155 | 1.3 | 1 | | | | | | | | | | | | | | |
| 13222 | 250.05 | 250.30 | 0.25 | 5000 | 72 | 735 | 3 | 86 | 1770 | | | | | | | | | | | | | |

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17257 | 6.80 | 9.80 | 3.00 | 14.69 | 0.08 | 2.06 | 2.23 | 2.92 | 1.3 | 0.08 | 2.37 | 0.09 | 69.16 | | 0.23 | | 0.06 | 95.27 | 0.5 | 16 | 82 | 5 | 17 | 2 | 30 | 10 |
| 17258 | 36.30 | 39.30 | 3.00 | 13.58 | 0.055 | 7.4 | 4.89 | 2.27 | 2.95 | 0.14 | 2.19 | 0.21 | 54.46 | | 0.35 | | 0.02 | 88.52 | 1.1 | 19 | 85 | 60 | 41 | 5 | 67 | 5 |
| 17259 | 44.80 | 46.40 | 1.60 | 13.75 | 0.055 | 2.97 | 2.03 | 2.49 | 1.97 | 0.08 | 2.42 | 0.11 | 67.92 | | 0.21 | | 0.17 | 94.18 | 0.6 | 27 | 63 | 4 | 23 | 3 | 35 | 5 |
| 17260 | 74.40 | 77.30 | 2.90 | 14.81 | 0.08 | 2.35 | 2.61 | 2.06 | 1.32 | 0.07 | 4.02 | 0.1 | 68.26 | | 0.22 | | 0.14 | 96.03 | 0.7 | 30 | 99 | 11 | 12 | 1 | 40 | 5 |
| 17261 | 102.70 | 105.50 | 2.80 | 14.3 | 0.07 | 2.03 | 2.14 | 1.47 | 1.45 | 0.06 | 4.64 | 0.1 | 69.67 | | 0.23 | | 0.05 | 96.21 | 0.6 | 20 | 134 | 3 | 16 | 2 | 35 | 5 |
| 17262 | 121.60 | 124.60 | 3.00 | 18.03 | 0.06 | 5.22 | 13.25 | 1.74 | 5.1 | 0.13 | 2.26 | 0.24 | 43.63 | | 2.06 | | 0.54 | 92.27 | 1.1 | 1 | 68 | 64 | 35 | 1 | 138 | 5 |
| 17263 | 149.40 | 152.40 | 3.00 | 15.99 | 0.08 | 1.9 | 2.61 | 2.62 | 1.13 | 0.06 | 3.62 | 0.08 | 67.44 | | 0.24 | | 0.08 | 95.85 | 0.4 | 12 | 98 | 5 | 9 | 1 | 39 | 5 |
| 17264 | 174.10 | 177.10 | 3.00 | 14.44 | 0.055 | 2.26 | 2.49 | 1.98 | 1.14 | 0.08 | 3.87 | 0.1 | 69.9 | | 0.22 | | 0.02 | 96.56 | 0.5 | 5 | 73 | 4 | 7 | 1 | 44 | 5 |
| 17265 | 194.70 | 197.70 | 3.00 | 13.82 | 0.075 | 2.65 | 3.38 | 2.09 | 1.14 | 0.12 | 3.41 | 0.1 | 67.6 | | 0.27 | | 0.24 | 94.89 | 0.5 | 9 | 112 | 27 | 10 | 1 | 82 | 5 |
| 17266 | 216.40 | 219.40 | 3.00 | 13.9 | 0.07 | 2.34 | 3.33 | 1.91 | 1.34 | 0.07 | 3.54 | 0.1 | 68.01 | | 0.26 | | 0.27 | 95.15 | 0.5 | 21 | 81 | 38 | 14 | 2 | 43 | 5 |
| 17267 | 246.00 | 249.00 | 3.00 | 13.94 | 0.065 | 3.07 | 3.15 | 2.28 | 1.58 | 0.05 | 2.12 | 0.11 | 68.33 | | 0.27 | | 0.06 | 95.04 | 0.7 | 21 | 73 | 10 | 19 | 1 | 41 | 5 |
| 17268 | 270.40 | 273.40 | 3.00 | 14.66 | 0.12 | 2.65 | 3.53 | 2.32 | 1.42 | 0.06 | 3.41 | 0.11 | 66.23 | | 0.29 | | 0.11 | 94.91 | 0.9 | 19 | 149 | 443 | 16 | 2 | 58 | 10 |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|---|----------------|--|----------------|---------|
| 0.00 TO 3.00 | Overburden «OB» | | | | | |
| 3.00 TO 9.50 | QFP Crystal Tuff «QFP TUFF» | Colour: Light green Grain Size: Fine grained 1-2% 2-4mm rounded quartz eyes and 3-5% 1-2mm whitish fairly fresh feldspar crystals Feldspar content decreasing below 5.3m. Weakly foliated 5.1-5.3m and 6.6=6.9m Andesite Ash screens Foliation at 6.3m Contact at 6.9m 9.5m | 52 45 50 | | | |
| 9.50 TO 14.00 | Mafic Dyke «M DYKE» | Colour: Dark green Grain Size: Fine grained Massive to weakly foliated. Rare mm whitish feldspars, otherwise aphyric. Rubbly core Sharp upper and lower contacts, no chill margins Contact at 14.0m | 45 | Rare carbonate and quartz veining | | |
| 14.00 TO 17.70 | QP Crystal Tuff «QP TUFF» | Colour: Light grey green Grain Size: Fine grained Up to 5% 2-4mm round shattered quartz eyes. Feldspar possibly present but very indistinct Weakly foliated | | Weakly sericitic, minor quartz carbonate veinlets near top of unit | Trace pyrite | |
| 17.70 TO 40.30 | Intermed. Tuff, Lapilli Tuff «I TUFF, LAP TUFF» | Colour: Medium green Grain Size: Fine grained 17.7 - 20.9m Strongly chloritized QFP fragments 3-4cm and up to 10cm. Rounded, flattened parallel to foliation. Groundmass supported -groundmass fine granular lithic tuff with abundant 1mm grains of translucent feldspars and siliceous felsic grains | | Weak chlorite, epidote | Trace pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------------|---|---|--|------------|----------------|---------|
| | | 20.9 - 25.8m 10% 3mm-1.5cm weakly epidotized rounded fragments 26.5 - 40.3m 2-5cm silicified QFP fragments flattened parallel to foliation. 1-2% Fragments 27.4 - 27.95 Mafic Dyke 34.4 - 40.3m Groundmass containing up to 3-5% 2-3mm quartz eyes Pervasive whitish streaky appearance to entire unit 37.75 - 37.9m Mafic Dyke Foliations at 20.4m 25.1m 26.5m 30.4m 36.1m 38.1m Lower contact | 40 45 45 32 35 55 55 | | | |
| 40.30 TO 55.80 | Felsic Lapilli Tuff «F LAP TUFF » | Colour: Striped creamy grey, light green Grain Size: Fine grained 1-2cm and up to 4cm creamy grey green stretched and flattened QP, Q(F?)P fragments in a light green QP groundmass Fragment outlines very indistinct. Characteristic striped appearance 41.3 - 41.6m Mafic ash Dark green, fine grained Contacts at 41.3m 41.6m 49.1 - 49.4m Mafic ash, Dyke? 51.9 - 52.8m Mafic ash Dark green, fine grained, fairly massive Abundant <1mm felsic grains, translucent grains Foliation at 42.2m | 55 50 55 | | Trace pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|--------------------------------|---|-------------|--|----------------|---------|
| | | Gradational lower contact | | | | |
| 55.80 TO 93.30 | QP Tuff, Lithic Tuff «QP TUFF» | <p>Colour: Light grey green Grain Size: Fine grained</p> <p><1-3% and locally 5% <1-1mm shattered quartz eyes/ grains. Very fine granular texture from mm felsic granules and possible fine translucent and clay altered feldspars Very weak foliation Some areas greener colour, more intermediate looking</p> <p>62.8 - 64.3m Occasional 1-3cm fault gouge zones Fault at 64.0m</p> <p>68.4m Minor clay gouge</p> <p>81.1m 3cm clay fault gouge at 65 degrees</p> <p>Occasional 10cm QFP screens towards base of unit</p> | 70 | <p>Weak sericite/chlorite throughout Rare quartz carbonate veining Very weak pervasive calcite</p> <p>84.9 - 86.4m Moderately abundant quartz chlorite veining</p> <p>92.5 - 93.3m Quartz chlorite veining</p> | | |
| 93.30 TO 115.45 | QFP Crystal Tuff «QFP TUFF» | <p>Colour: Light green, speckled Grain Size: Fine grained</p> <p>2-3% 1mm quartz eyes and up to 10% white clay and carbonate altered rounded feldspars Very weakly foliated Patchy silicified look in areas of fresh white feldspars Some crystal poor zones</p> <p>98.4 - 101.5m Fault Zone Brecciated core, minor fault gouge, rubbly core Minor fault gouge and rubbly core also at 103.4 - 103.6m, 107.4 - 108m, 113.75 - 114.0m, 115.2 - 114.45m</p> <p>Mafic Ashes, Dykes? as follows 108.0 - 108.4m</p> | | <p>Weak - moderate quartz chlorite veining throughout</p> | Trace pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|-------------|--|----------------|--|
| | | 109.1 - 110.2m Weak to moderately magnetic, very fine disseminated magnetite. 10cm zone well layered/foliated? at 113.0 - 113.75m Also magnetic | 40 | | | |
| 115.45 TO 119.70 | Mafic Dyke? «M DYKE» | Colour: Dark green Grain Size: Fine grained Massive with patchy streaky/foliated areas Weakly magnetic from very fine magnetite Faulted upper contact, rubbly lower contact | | Moderate very fine disseminated calcite Minor quartz chlorite veining | Trace pyrite | |
| 119.70 TO 133.10 | F(Q)P Crystal Tuff «F(Q)P TUFF» | Colour: Streaky medium green and white Grain Size: Fine grained 1-2% <2mm rounded shattered quartz eyes and 5-7% mm whitish carbonate and clay altered feldspars. Distinctive streaky appearance unique to this rock Weakly foliated defined by streaky carbonate Foliation at 122.0m 131.0m | 60 60 | Pervasive carbonate alteration giving rock a distinctive whitish streaked appearance. Weak to moderate sericite/chlorite Below 127m streaky carbonate alteration becoming patchy | Trace pyrite | Similar to hole 89-257 from 28.4-40.1m |
| 133.10 TO 218.90 | F(Q)P Crystal Tuff «QFP TUFF» | Colour: Light grey, light green grey Grain Size: Fine grained Massive to weakly foliated, weak to moderate pervasive silicified appearance 7-10% 1-3mm whitish clay/carbonate altered feldspar and 1-2% mm rounded shattered quartz eyes Rare patches with 3-5% and up to 10% quartz eyes 143.4 - 144.15m Intermediate Tuff, Dyke? Dark green, fine grained, weakly foliated Very fine granules, possible felsic grains 10cm bleached zones at upper and lower contact Contact at 144.15m 146.2 - 149.6m QFP lapilli tuff Pinkish cream QFP fragments in a QFP groundmass, fragments 2-3cm, rounded, flattened. Fragments very silicified in appearance | 60 | Weakly sericitic Weak to moderate silicified appearance could be primary in nature 105.7 - 154.25m Bleached appearance | Trace pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|---------|-----------|---|-------------|---------------------------|---|--|
| | | Below 154.25m patchy pinkish cream colouration with indistinct fragmental appearance, with siliceous QFP frags in a less silicified QFP groundmass Quartz eye content 2-3% and up to 10%, 2-3mm size Rare <1cm fragments of aphyric creamy pink felsics | | pinkish cream colouration | | The entire unit gives the impression of being a coarse QFP fragmental unit. Indistinct fragment outlines, silicified layers and less silicified layers at cm scale may represent fragments and groundmass respectively |
| | | Foliation at | | | | |
| | | 150.4m | 75 | | | |
| | | 156.3m | 55 | | | |
| | | 168.4m | 53 | | | |
| | | 175m | 53 | | | |
| | | 183.0m | 47 | | | |
| | | 189.5m | 51 | | | |
| | | 210.0m | 55 | | | |
| | | More altered in bleached zones, feldspars indistinct | | | | |
| | | 193.2 - 197.5m 1% <1cm creamy felsic fragments | | | | |
| | | 195.8 - 196.2m Andesite Ash | | | | |
| | | Dark green, fine grained, moderately foliated parallel to contacts | | | | |
| | | Contact at | | | | |
| | | 195.8m | 50 | | | |
| | | 196.2m | 45 | | | |
| | | 213.8 - 216.75m Weakly bleached appearance Feldspars very indistinct | | | 204.2 - 204.6m <0.5% chalcopyrite disseminated. Possibly associated with minor quartz veining | |
| | | 216.75 - 216.90m Fault zone, gougy brecciated core | | | 213.8 - 216.75m <1% pyrite as occasional <1mm wisps/veinlets | |
| | | Fault at | | | | |
| | | 216.9m | 50 | | | |
| | | Faulted lower contact at 218.4m | | | | |
| | | | 30 | | | |
| | | 218.4 - 218.9m Mafic Dyke Dark green, fine grained, abundant very fine leucoxene | | | | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|----------------------------|--|---|---|
| 218.90 TO 229.25 | QP Felsic Tuff «QP TUFF» | <p>Colour: Light grey, light green Grain Size: Fine grained</p> <p>2-3% 1-2mm and rare to 3mm rounded quartz eyes. Patchy 3-5% faint feldspar grains Weakly foliated</p> <p>220.0 - 220.3m Andesitic Ash Dark green, fine grained, minor calcite veinlets and 1-2mm grains. Sharp upper and lower contacts Contacts at 220.0m 220.3m</p> <p>224.60 - 224.75m Fault Zone, Gougy core</p> <p>224.75 - 225.85m Andesite ash, dyke? Dark green, fine grained weak calcite veinlet. 1-2% 2-4mm vesicles? with quartz cores and calcite rims</p> <p>226.45m 5cm fault zone</p> | 60 70 35 | <p>Weakly sericitic</p> <p>221.1 - 224.75m Moderately bleached creamy green colour. Silicified</p> | <p><1% pyrite as wispy veinlets associated with siliceous veinlets</p> <p>221.1 - 224.75m 1% pyrite as <1mm veinlets cross cutting core</p> | 220.0 - 224.75m Possible 214-216 trend equivalent |
| 229.25 TO 234.60 | Felsic Lithic Tuff «F LITH TUFF» | <p>Colour: Medium green Grain Size: Fine grained</p> <p>Very fine gritty granular texture of mm felsic grains and 1-2% shattered quartz eyes. Distinctive white weak speckled appearance from wispy disseminated calcite</p> <p>233.1 - 233.4m Andesite ash, dyke? Moderate streaky carbonate Sharp upper and lower contacts Contacts at 233.1m 233.4m</p> | 75 65 | Pervasive fine white calcite wisps | | |
| 234.60 TO 261.20 | Felsic Tuff Lapilli Tuff «F TUFF, LAP TUFF» | <p>Colour: Light grey green Grain Size: Fine grained</p> <p><1% distinct <1cm grey fine grained siliceous felsic fragments Patchy siliceous banding = larger siliceous</p> | | Weak sericite/chlorite along foliations | | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------------|-------------------------|--|--|---|----------------|---------|
| | | fragments Occasional zones with dark green wispy 1cm pumice fragments Foliations at 236.5m 240.2m 242.6 - 243.5m Foliations 0-10 deg to core axis 245.8m 247.3 - 249.3m Foliations 0-10 deg to core axis Thin andesite ashes/dykes? as follows: 250.6 - 251.1m 251.25 - 251.75m 253.1 - 254.05m Contact at 250.6m 254.05m Gougy lower contact at | 65 50 55 52 50 47 | 250.6 - 255.0m Patchy white green quartz chlorite veining up to 10cm 260.7 - 261.0m Quartz-chlorite veining | | |
| 261.20 TO 292.30 | Felsic Tuff «F TUFF» | Colour: Medium green Grain Size: Fine grained Weakly foliated becoming massive below 276.0m Fine grained weakly granular texture Rare mm quartz eyes 261.0 - 276.0m Distinctive calcite blotches Below 276.0m stronger granular texture, Lithic Tuff | | Weak sericite/chlorite alteration. Weakly siliceous 261.0 - 276.0m Weak to moderate calcite as wispy <1cm blotches Below 276.0m 2-3% <1mm greenish sericitic or epidote grains | Trace pyrite | |

HOLE NUMBER: 89-258

ASSAY SHEET

DATE: 15-December-1989

| Sample | From (m) | To (m) | Length (m) | ESTIMA GCu ppm | GPb ppm | GZn ppm | GAg ppm | GAu ppb | ASSAYS GBa ppm | Cu % | Pb % | Zn % | IAG oz/t | Ag g/t | IAu oz/t | GEOCHEMICAL | | | SUL % | COMMENTS | |
|--------|-------------|-----------|---------------|----------------------|------------|------------|------------|------------|----------------------|---------|---------|---------|-------------|-----------|-------------|-------------|----------|------------|----------|----------|--|
| | | | | | | | | | | | | | | | | Au g/t | SG SG | NSR NSR | | | |
| 13224 | 221.30 | 222.60 | 1.30 | 15 | 18 | 32 | 0.3 | 2 | | | | | | | | | | | | | |
| 13225 | 222.60 | 224.00 | 1.40 | 11 | 14 | 31 | 0.3 | 1 | | | | | | | | | | | | | |
| 13226 | 224.00 | 224.75 | 0.75 | 70 | 12 | 10 | 0.6 | 1 | | | | | | | | | | | | | |

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17269 | 14.30 | 17.30 | 3.00 | 13.96 | 0.075 | 2.29 | 2.26 | 3.04 | 0.92 | 0.06 | 2.37 | 0.09 | 71.12 | | 0.23 | | 0.04 | 96.45 | 0.8 | 20 | 115 | 16 | 1 | 1 | 27 | 5 |
| 17270 | 20.40 | 23.20 | 2.80 | 15.65 | 0.03 | 12.17 | 6.87 | 1.2 | 5.23 | 0.2 | 3.14 | 0.31 | 42.09 | | 0.48 | | 0.05 | 87.42 | 2.3 | 1 | 67 | 80 | 43 | 4 | 75 | 5 |
| 17271 | 52.70 | 55.70 | 3.00 | 15.27 | 0.095 | 1.71 | 2.81 | 2.74 | 1.38 | 0.06 | 3.61 | 0.09 | 68.72 | | 0.23 | | 0.05 | 96.78 | 0.4 | 11 | 133 | 17 | 8 | 1 | 42 | 5 |
| 17272 | 80.10 | 83.10 | 3.00 | 13.63 | 0.075 | 1.67 | 2.4 | 2.23 | 1.91 | 0.05 | 3.1 | 0.1 | 71.2 | | 0.2 | | 0.03 | 96.59 | 0.4 | 5 | 143 | 11 | 17 | 1 | 48 | 5 |
| 17273 | 105.00 | 107.00 | 2.00 | 15.33 | 0.08 | 2.35 | 2.88 | 2.42 | 1.44 | 0.06 | 3.48 | 0.1 | 67.51 | | 0.23 | | 0.03 | 95.91 | 0.7 | 26 | 99 | 6 | 14 | 1 | 47 | 10 |
| 17274 | 120.00 | 123.00 | 3.00 | 13.46 | 0.02 | 6.3 | 5.3 | 0.44 | 3.7 | 0.17 | 4.48 | 0.21 | 57.07 | | 0.33 | | 0.02 | 91.49 | 0.9 | 1 | 35 | 46 | 38 | 2 | 68 | 10 |
| 17275 | 151.80 | 154.50 | 2.70 | 14.2 | 0.085 | 1.95 | 2.63 | 2.16 | 1.11 | 0.07 | 3.68 | 0.1 | 69.02 | | 0.21 | | 0.06 | 95.26 | 0.4 | 18 | 99 | 6 | 8 | 1 | 51 | 5 |
| 17276 | 178.30 | 181.30 | 3.00 | 14.3 | 0.055 | 2.37 | 2.73 | 1.81 | 1.1 | 0.08 | 4.41 | 0.1 | 67.92 | | 0.23 | | 0.06 | 95.14 | 0.6 | 11 | 79 | 3 | 5 | 1 | 49 | 5 |
| 17277 | 209.90 | 212.90 | 3.00 | 14.84 | 0.09 | 2.15 | 2.48 | 2.3 | 1.08 | 0.06 | 3.83 | 0.09 | 68.58 | | 0.25 | | 0.13 | 95.87 | 0.6 | 1 | 105 | 140 | 3 | 1 | 40 | 5 |
| 17278 | 238.00 | 241.00 | 3.00 | 15.03 | 0.085 | 2.3 | 2.77 | 2.88 | 1.16 | 0.08 | 2.65 | 0.09 | 68.41 | | 0.29 | | 0.15 | 95.9 | 0.6 | 1 | 92 | 77 | 7 | 1 | 85 | 5 |
| 17279 | 267.30 | 270.30 | 3.00 | 15.47 | 0.095 | 3.37 | 4.46 | 2.24 | 1.75 | 0.12 | 2.9 | 0.14 | 64.09 | | 0.4 | | 0.07 | 95.1 | 0.9 | 4 | 137 | 30 | 12 | 2 | 74 | 5 |
| 17280 | 286.30 | 289.30 | 3.00 | 15.59 | 0.05 | 3.09 | 4.01 | 0.94 | 1.92 | 0.12 | 4.94 | 0.13 | 64.48 | | 0.39 | | 0.03 | 95.7 | 0.7 | 4 | 105 | 28 | 13 | 2 | 56 | 10 |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|---|-------------|--|---|--------------------|
| 0.00 TO 12.90 | Overburden «OB» | | | | | |
| 12.90 TO 18.80 | QP Felsic Tuff «QP TUFF» | Colour: Light creamy green 1-2% 1-3mm round quartz eyes in a fine grained foliated groundmass 17.9 - 18.8m Unit becoming mottled with medium green flattened wispy <2cm fragments = pumice frags Foliation at 14.7m Sharp lower contact at | 53 50 | Weakly sericitic, weak bleached appearance | <1-1% disseminated pyrite 17.4m 1.5cm zone with 2-3% pyrite and trace sphalerite | |
| 18.80 TO 26.30 | Andesitic? Ash, Muddy Ash «AND ASH» | Colour: Medium greenish grey Grain Size: Fine grained 214-216 zone composed of chloritic foliated and massive andesitic ashes with screens of felsic tuff and felsic lithic tuffs. Detailed breakdown of unit as follows 18.8 - 19.0m Andesite ash, weak calcite 19.0 - 19.25m Felsic Tuff, wispy inclusions of Andesite 19.25 - 19.58m Andesite ash, same as 18.8 - 19.0 Contact at 19.25m 19.58 - 20.25m Felsic Tuff: 1% quartz eyes. Occasional green wisps = fragments Contact at 20.25m 20.25 - 20.75m Andesite Ash Massive moderate carbonate veinlets giving core a weak brecciated appearance 20.75 - 21.45m Felsic Lithic Tuff Massive, pervasive silicified fine granular texture Dark grey Weak brecciated appearance from carbonate veinlts | 28 35 | Moderate chlorite alteration of andesite Weak to moderate carbonate veining | 3-5% disseminated pyrites, trace chalcopyrite 19.05m 2cm zone with 1% red sphalerite 19.53 - 19.79m <1% red disseminated sphalerite | 214-216 Equivalent |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|--|-------------|--|---|---------|
| | | <p>21.45 - 23.50m Andesite ash Massive, moderate to strong brecciated appearance from carbonate veining? Weakly foliated towards base of interval</p> <p>23.50 - 26.3m Felsic Tuff Greenish grey Mixing of felsic and andesitic material Quartz veining from 23.8 to 24.6m</p> <p>Faulted lower contact, rubbly gougy core</p> | | | | |
| 26.30 TO 29.30 | Felsic Tuff «F TUFF» | <p>Colour: Light green Grain Size: Fine grained</p> <p>Massive, moderate pervasive silicified appearance with patchy fine brecciated zones Rare 2-3cm felsic fragments at top of unit Rubbly core Sharp lower contact</p> | 60 | Moderately silicified | <1% pyrite patchy, localized in fractures | |
| 29.30 TO 39.50 | Intermed. to Andesitic Dyke, Tuff? «I DIKE, TUFF?» | <p>Colour: Dark green Grain Size: Fine grained</p> <p>Very weakly foliated with very weak fine wispy calcite veinlets parallel to foliation Possible very fine grained leucoxene Lower contact disrupted by quartz veining</p> <p>Foliation at 31.5m</p> | 35 | Moderate quartz carbonate veining with 2-10cm widths Strong pervasive, very fine disseminated calcite | Trace pyrite | |
| 39.50 TO 65.25 | QP Crystal Tuff «QP TUFF» | <p>Colour: Light green Grain Size: Fine grained</p> <p>2-3% 1-3mm and rare 4.5mm round quartz eyes. Occasional zones with 2-3% faint whitish feldspars Weakly foliated Narrow rubbly gougy zones at 45.6m, 54.3m, 54.6m</p> <p>Fault at 54.6m</p> <p>54.6 - 56.6m 3-5% 1-2cm wispy green pumice frags</p> | 40 | Weakly sericitic along foliation plane | Trace pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------------|-----------------------|---|----------------------------|--|---|---------|
| | | <p>Sharp contact at 56.6m</p> <p>56.6 - 57.0m Andesitic ash Dark green, fine grained, moderate sheared appearance Abundant wispy calcite</p> <p>57.2 - 59.6m Andesitic ash, dyke? Similar to above interval but with much less carbonate</p> <p>59.95 - 60.1m Sericitic felsic ash Light grey, fine grained</p> <p>60.1 - 63.75m Quartz eye content decreases to around 1% and size decreases to <1-1mm</p> <p>63.1 and 63.6m 2-3cm gougy fault zones</p> <p>63.75 - 65.25m Andesite ash, dyke? Dark green, fine grained Abundant streaky, wispy calcite Very indistinct lower contact. Appears to grade into lower diorite Contact at 63.75m 65.25m</p> | <p>60</p> <p>60 50</p> | | <p>56.6 - 57.0m 3-5% disseminated pyrite</p> <p>59.95 - 60.1m 2-3% pyrite, trace chalcopryite</p> | |
| <p>65.25 TO 128.45</p> | <p>Diorite «D10R»</p> | <p>Colour: Dark green Grain Size: Fine grained</p> <p>Massive, feldspar porphyritic with 3-10% ragged white feldspar phenocrysts</p> <p>90.0 - 91.0m Fine grained phase of diorite, moderately sheared with moderately abundant wispy streaky carbonate Shearing 90.5m</p> <p>Contact at 128.45m</p> | <p>50</p> <p>38</p> | <p>Occasional <5cm quartz chlorite and quartz chlorite carbonate veining</p> <p>121.58 - 122.53m Quartz chlorite vein</p> | <p>111.1 - 113.9m <1% disseminated pyrrhotite 121.58 - 122.53m Occasional blotches of chalcopryite/pyrite and chalcopryite/pyrrhotite Total sulfide content <1% of vein</p> | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|-------------|--|---|--|
| 128.45 TO 138.50 | Felsic to Intermed. Tuff, Tertiary Dykes «F-I TUFF, M DIKES» | <p>Colour: Medium green Grain Size: Fine grained</p> <p>Weakly foliated volcanics cut by the Tertiary? mafic dykes Volcanics -baked altered appearance</p> <p>128.45 - 129.85m Felsic Volcanics <1% quartz eyes Wispy green patches gives fragmental appearance Dyke from 128.8 - 129.05m</p> <p>129.85 - 130.55m Possible Tertiary Dyke, possible intermediate volcanics Fine grained, very weak foliation Patchy green blotches give fragmental appearance Contacts very indistinct</p> <p>130.55 - 132.2m Felsic Tuff Silicified hornfelsesd</p> <p>132.2 - 133.2m Tertiary? mafic dyke</p> <p>133.2 - 136.35m Felsic tuff Patchy QP and fresh looking FP zones</p> <p>135.35 - 138.5m 20-40cm bleached cream fragments or core is cutting the edge of another Tertiary dyke</p> | | | 132.75 - 133.2m <1% chalcopyrite and pyrite within Tertiary? dyke | |
| 138.50 TO 168.10 | QP Felsic Tuff «QP TUFF» | <p>Colour: Light to medium grey Grain Size: Fine grained</p> <p>1-3% 1-2mm quartz eyes in a fine grained siliceous groundmass</p> <p>138.5 - 143.65m Very granular gritty appearance, massive, patchy remnant clay altered feldspar</p> <p>143.65 - 160.85m Patchy green and grey mottled appearance may represent spotty sericite alt or indistinct remnant fragments. Pseudofragmental appearance Some fine white specks may represent remnant</p> | | 143.65 - 160.85m Possible patchy sericite giving fragmental appearance | | Mottled zone may be equivalent of footwall mottled zones seen in 216, 256, 257 |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|----------------------|---|-------------|--|--|--|
| | | <p>feldspars Rare definite distinct fragments of pumice and QP tuff. 158.5 - 159.55m 2-3% green pumice fragments (fiamee)</p> <p>Screens of fine grained mafic (dioritic) dykes as follows: 144.15 - 144.45m 155.45 - 155.55m 155.7 - 156.6m 160.85 - 164.6m 165.5 - 166.3m 166.85 - 167.35m</p> <p>Contact at 144.45m 164.6m 165.5m</p> <p>Sharp lower contact at 168.1m</p> | 75 | | | |
| 168.10 TO 180.25 | Diorite «DIOR» | <p>Colour: Dark green Grain Size: Fine grained</p> <p>3-5% 2-5mm ragged white feldspar phenocrysts in a fine grained groundmass</p> <p>170.2 - 173.3m Coarser more equigranular appearance</p> <p>178.5 - 179.2m Finer grained phase, minor carbonate veining</p> <p>179.2 - 180.25m Tertiary? Mafic Dyke Dark green, fine grained Shallow irregular contact at approximately 10 deg</p> | | <p>Occasional quartz carbonate chlorite veining</p> <p>179.2 - 180.25m Patchy silica epidote</p> | 179.2 - 180.0m 5% disseminated pyrrhotite <1% chalcopyrite, trace pyrite | |
| 180.25 TO 182.60 | Felsic Tuff «F TUFF» | <p>Colour: Medium Green Grain Size: Fine grained</p> <p>Patchy siliceous faintly FP Felsic fragments in a severely altered groundmass. Unit looks more like an andesite due to alteration Probably related to dyking</p> | | Moderate epidote probably related to proximity to dykes | 3-5% disseminated pyrite | Siliceous fragments more resistive to alteration than groundmass |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------------|--------------------------------------|---|----------------|---|---|---------|
| 182.60 TO 228.30 | Diorite and Mafic Dykes «DIOR» | Colour: Dark green Grain Size: Fine grained 182.6 - 186.9m Fine grained granular mafic dykes, minor carbonate veining 183.2m 2cm fault at 50 deg 186.9 - 188.8m Feldspar porphyritic diorite 188.8 - 189.3m Later mafic dyke possibly Tertiary? 2-3% 1-2mm remnant phenocrysts, amphiboles? Irregular upper and lower contacts 189.3 - 228.30m Diorite feldspar porphyritic to weakly equigranular | | 183.75 - 184.3m Quartz chlorite carbonate veining 189.3 - 228.30m Weak quartz chlorite carbonate veining usually <10cm | 183.75 - 184.0m 3% chalcopyrite, trace pyrite, pyrrhotite as patches within vein Rare grains of chalcopyrite | |
| | E.O.H. | | | | | |

| Sample | From (m) | To (m) | Length (m) | ESTIMA GCu ppm | GPb ppm | GZn ppm | GAg ppm | GAu ppb | ASSAYS GBa ppm | Cu % | Pb % | Zn % | I Ag oz/t | Ag g/t | IAu oz/t | GEOCHEMICAL | | | SUL % | COMMENTS | |
|--------|-------------|-----------|---------------|----------------------|------------|------------|------------|------------|----------------------|---------|---------|---------|--------------|-----------|-------------|-------------|----------|------------|----------|----------|--|
| | | | | | | | | | | | | | | | | Au g/t | SG SG | NSR NSR | | | |
| 13227 | 17.80 | 18.80 | 1.00 | 29 | 7 | 475 | 0.6 | 1 | | | | | | | | | | | | | |
| 13228 | 18.80 | 19.80 | 1.00 | 250 | 26 | 2600 | 1.4 | 3 | 1950 | | | | | | | | | | | | |
| 13229 | 19.80 | 20.75 | 0.95 | 140 | 19 | 1520 | 1 | 1 | | | | | | | | | | | | | |
| 13230 | 20.75 | 21.45 | 0.70 | 160 | 23 | 540 | 1.4 | 2 | | | | | | | | | | | | | |
| 13231 | 21.45 | 22.50 | 1.05 | 80 | 28 | 182 | 1.3 | 1 | | | | | | | | | | | | | |
| 13232 | 22.50 | 23.50 | 1.00 | 260 | 24 | 5400 | 1.4 | 6 | | | | | | | | | | | | | |
| 13233 | 23.50 | 24.90 | 1.40 | 200 | 19 | 134 | 1.3 | 2 | | | | | | | | | | | | | |
| 13234 | 24.90 | 26.30 | 1.40 | 110 | 18 | 79 | 1.1 | 2 | | | | | | | | | | | | | |
| 13235 | 56.60 | 57.00 | 0.40 | 59 | 28 | 145 | 1 | 1 | | | | | | | | | | | | | |
| 13236 | 59.70 | 60.10 | 0.40 | 245 | 16 | 270 | 1.1 | 2 | | | | | | | | | | | | | |
| 13237 | 121.58 | 122.53 | 0.95 | 800 | 15 | 73 | 1.2 | 3 | | | | | | | | | | | | | |
| 13238 | 132.20 | 133.20 | 1.00 | 1100 | 21 | 110 | 1.5 | 2 | | | | | | | | | | | | | |
| 13239 | 179.20 | 180.25 | 1.05 | 240 | 19 | 83 | 1.3 | 1 | | | | | | | | | | | | | |
| 13240 | 180.25 | 181.40 | 1.15 | 80 | 19 | 87 | 1 | 2 | | | | | | | | | | | | | |
| 13241 | 181.40 | 182.60 | 1.20 | 9000 | 22 | 130 | 2.9 | 400 | | | | | | | | | | | | | |
| 13242 | 183.75 | 184.40 | 0.65 | 50 | 16 | 86 | 0.8 | 1 | | | | | | | | | | | | | |

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17281 | 15.20 | 18.20 | 3.00 | 13.72 | 0.1 | 3.77 | 2.62 | 2.45 | 1.68 | 0.12 | 2.09 | 0.15 | 67.22 | 0.21 | | | 0.08 | 94.2 | 0.7 | 1 | 121 | 13 | 18 | 1 | 201 | 5 |
| 17282 | 31.30 | 34.30 | 3.00 | 13.64 | 0.01 | 8.61 | 11.73 | 0.19 | 5.92 | 0.18 | 2.06 | 0.31 | 44.49 | 1.78 | | | 0.26 | 89.18 | 1.1 | 1 | 12 | 180 | 40 | 10 | 142 | 5 |
| 17283 | 52.10 | 54.30 | 2.20 | 13.91 | 0.1 | 3.07 | 2.74 | 2.72 | 1.27 | 0.08 | 2.32 | 0.11 | 68.31 | 0.22 | | | 0.29 | 95.14 | 0.8 | 10 | 109 | 55 | 10 | 1 | 638 | 10 |
| 17284 | 140.70 | 143.70 | 3.00 | 14.76 | 0.165 | 2.35 | 3.31 | 2.61 | 2.16 | 0.05 | 3.43 | 0.1 | 66.66 | 0.23 | | | 0.11 | 95.94 | 1.1 | 5 | 245 | 13 | 16 | 1 | 47 | 5 |
| 17285 | 156.90 | 159.90 | 3.00 | 13.45 | 0.105 | 3.68 | 3.01 | 3.07 | 1.89 | 0.04 | 2.13 | 0.14 | 67.03 | 0.21 | | | 0.08 | 94.84 | 0.9 | 3 | 133 | 13 | 9 | 1 | 45 | 5 |

HOLE NUMBER: 89-260

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: LARA PROJECT
PROJECT NUMBER: 242
CLAIM NUMBER: T.L.
LOCATION: NTS 92B/13

PLOTTING COORDS GRID: Mine
NORTH: 11659.00N
EAST: 10696.00W
ELEV: 817.00

ALTERNATE COORDS GRID: Mine
NORTH: 116+59N
EAST: 106+96W
ELEV: 817.00

COLLAR DIP: -50° 0' 0"
LENGTH OF THE HOLE: 131.10m
START DEPTH: 0.00m
FINAL DEPTH: 131.10m

COLLAR GRID AZIMUTH: 183° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 211° 0' 0"

DATE STARTED: October 20, 1989
DATE COMPLETED: October 21, 1989
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: Frontier Drilling
CASING: 7.0
CORE STORAGE: Chemainus

PURPOSE: To test coincidental IP, VLF and geochemical anomalies in the Randy Zone

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|-----------------|-----------|--------------------|-------------|--------------|------|----------|
| 48.80 | - | -48° 0' | ACID | OK | | - | - | - | - | - | |
| 124.10 | - | 0° 0' | ACID | | Incomplete etch | - | - | - | - | - | |
| 128.00 | 209° 0' | -46° 0' | SING.SHOT | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|---------------|---------------------------|--|----------------------------|--|---|---------|
| 0.00 TO 7.00 | Overburden «OB» | | | | | |
| 7.00 TO 44.30 | QP Crystal Tuff «QP TUFF» | <p>Colour: Light creamy grey Grain Size: Fine grained</p> <p>2-5% 2-5mm and up to 7mm round quartz eyes Coarse well foliated appearance with variable core angles for foliation</p> <p>7.0 - 14.8m Mottled patchy green, fragmental appearance</p> <p>11.7 - 11.9m Mafic dyke</p> <p>Tan brown sericitic mud? seams at 22.2 - 22.23m, 29.3 - 29.42m. Both intervals 5-7% pyrite. Possible mud horizons or fragments? Contacts parallel to foliation Contacts at: 22.23m 29.42m</p> <p>35.3 - 38.3m Gougy fault <1cm wide parallel to core axis</p> <p>39.4 - 41.2m Felsic tuff, ash Light grey, lacking the coarse foliated appearance and quartz eyes Contact at: 39.4m</p> <p>41.2 - 41.7m Zone of distorted and folded foliations Foliations at: 8.5m 10.7m 15.0m 18.9m 23.3m 25.9m 30.5m 32.6m 39.3m</p> <p>44.3m 3cm clay gouge at lower contact</p> | <p>47 30</p> <p>35</p> | <p>Moderate to strong pervasive sericite</p> <p>16.6 - 16.7m Quartz carbonate vein parallel to foliation</p> | <p>1-2% pyrite disseminated and as 1mm veinlets within quartz veinlets parallel to foliation</p> <p>16.6 - 16.7m 5% pyrite, <1% cpy, trace sphalerite</p> <p>42.3m 5mm sphalerite pyrite stringers</p> | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|---|----------------------|--|--|---------|
| 44.30 TO 62.35 | Felsic Ash «F ASH» | Colour: Streaky light grey and tan brown Grain Size: Aphanitic to fine grained Very fine ash, scattered <1% <1mm quartz eyes, mainly light grey colour with tan brown sericite streaks and bands <1cm wide 44.45 - 45.5m Light to medium grey, possible argillite component to ash unit 57.0m Gougy core over 5cm Foliations at 46.6m 54.6m 58.9m Lower contact | 48 44 35 28 | Moderate to strong sericite | 44.45 - 45.5m 1-2% pyrite disseminated and as <1mm quartz-pyrite stringers 45.5 - 62.35m Trace to 4% pyrite | |
| 62.35 TO 63.15 | Argillite «ARG» | Colour: Dark grey Grain Size: Fine grained Finely laminated with bedding parallel to foliation. Possible transposed bedding at 62.9m Bedding/Foliation at 62.6m | 31 | | 2-3% pyrite associated with <1mm quartz veinlets and as fine disseminations | |
| 63.15 TO 66.10 | Intermed? Ash, Pelitic Mud «INT ASH, MUD» | Colour: Maroon grey, grey green Grain Size: Fine grained 63.15 - 64.7m Maroon grey, soft foliated pelitic mud. Very fine speckles hard round pepper coloured specks 64.7 - 64.8m Intermediate ash described below 64.8 - 65.1m Felsic tuff, possible stretched fragments, hard black pepper specks on foliation planes 65.1 - 66.1m Intermediate ash, tuff Grey green, fine grained, weakly foliated, patchy wispy maroon mud. A mixture of grey siliceous material and green chloritic/sericitic material | | 63.15 - 64.7m Moderate quartz/ carbonate veining | Trace pyrrhõite, pyrite and sphalerite associated with veining Minor pyrite associated with weak veining | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|--------------------------------|---|--|---------|
| | | <p>Rare QFP fragment Patchy area with very faint whitish mm grains = remnant feldspars</p> <p>99.75 - 100.05m Mafic Dyke</p> <p>107.5 - 111.4m QP tuff, light creamy grey</p> <p>Foliations at</p> <p style="margin-left: 40px;">75.9m 78.8m 84.9m 90.1m 94.5m 100.3m 101.2m 103.0m 107.0m</p> | | 107 - 111.4m Weak to moderate sericite | 111.1 - 111.23 3-5% fine disseminated pyrite | |
| 111.40 TO 120.65 | Felsic Lithic Lapilli Tuff «F LITH,LAP TUFF» | <p>Colour: Light grey Grain Size: Fine grained</p> <p>Moderately foliated, fine grained, weak streaky appearance Heterolithic <1cm flattened and stretched fragments of grey, felsic tuff, ash, fiamee, and argillite.</p> <p>114.4 - 116.3m Quiet period. Fine grained tuff and ash. 116.0m bedding in aphyritic ash Bedding at 116.0m Foliations at 112.8m 118.3m</p> <p>120.4 - 120.65m Mafic Dyke Contact at 120.4m 120.65m</p> | 50 43 30 40 40 | Weak to moderately sericitic Rare <10cm quartz carbonate veins | Rare <1mm quartz, pyrite, sphalerite veinlets parallel to foliation 114.9 - 115.65m <1% disseminated pyrrhotite with trace sphalerite | |
| 120.65 TO 131.10 | Intermed. Tuff «I TUFF» | <p>Colour: Streaky white, medium green Grain Size: Fine grained</p> <p>Well foliated sheared appearance, streaky creamy grey and green Pseudofragmental appearance with some very distinct flattened fragments</p> | | Weak sericite, chlorite | Trace pyrite | |

HOLE NUMBER: 89-260

MINNOVA INC.
DRILL HOLE RECORD

DATE: 15-December-1989

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------|--------------|--|----------------|------------|----------------|---------|
| | | 128.6m Gougy core 130.1 - 131.1m Gougy Broken core, poor recovery | | | | |

HOLE NUMBER: 89-260

DRILL HOLE RECORD

LOGGED BY: P. Baxter

PAGE: 6

| Sample | From (m) | To (m) | Length (m) | ESTIMA GCu ppm | GPb ppm | GZn ppm | GAg ppm | GAu ppb | GBa ppm | ASSAYS | | | | GEOCHEMICAL | | | | | SUL % | COMMENTS | | |
|--------|----------|--------|------------|----------------------|------------|------------|------------|------------|------------|---------|---------|---------|-------------|-------------|-------------|-----------|----------|------------|----------|----------|--|--|
| | | | | | | | | | | Cu % | Pb % | Zn % | IAG oz/t | Ag g/t | IAu oz/t | Au g/t | SG SG | NSR NSR | | | | |
| 13250 | 16.50 | 16.80 | 0.30 | 913 | 40 | 726 | 5 | 122 | 2440 | | | | | | | | | | | | | |
| 13251 | 21.70 | 22.30 | 0.60 | 81 | 25 | 91 | 0.8 | 16 | 1150 | | | | | | | | | | | | | |
| 13252 | 33.10 | 34.40 | 1.30 | 16 | 17 | 252 | 0.7 | 28 | 4050 | | | | | | | | | | | | | |
| 13253 | 41.80 | 42.80 | 1.00 | 24 | 27 | 771 | 0.9 | 15 | 920 | | | | | | | | | | | | | |
| 13254 | 44.45 | 45.50 | 1.05 | 17 | 13 | 53 | 0.9 | 11 | 980 | | | | | | | | | | | | | |
| 13255 | 62.35 | 63.15 | 0.80 | 65 | 18 | 135 | 0.8 | 16 | 770 | | | | | | | | | | | | | |
| 13256 | 64.70 | 65.10 | 0.40 | 84 | 11 | 34 | 0.7 | 16 | 700 | | | | | | | | | | | | | |
| 13257 | 66.10 | 66.50 | 0.40 | 111 | 11 | 58 | 0.7 | 9 | 1160 | | | | | | | | | | | | | |
| 13258 | 66.50 | 66.80 | 0.30 | 63 | 13 | 70 | 0.8 | 12 | 1000 | | | | | | | | | | | | | |
| 13259 | 69.60 | 70.80 | 1.20 | 75 | 15 | 191 | 0.6 | 8 | 400 | | | | | | | | | | | | | |
| 13260 | 72.30 | 73.50 | 1.20 | 21 | 10 | 89 | 0.6 | 14 | | | | | | | | | | | | | | |
| 13261 | 111.10 | 111.40 | 0.30 | 17 | 11 | 42 | 0.7 | 19 | 1270 | | | | | | | | | | | | | |
| 13262 | 114.70 | 115.65 | 0.95 | 37 | 40 | 248 | 0.9 | 18 | 1700 | | | | | | | | | | | | | |

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17287 | 7.60 | 10.60 | 3.00 | 12.54 | 0.075 | 4.52 | 2.78 | 2.75 | 2.3 | 0.17 | 0.44 | 0.15 | 66.17 | | 0.2 | | 0.58 | 92.67 | 0.9 | 29 | 53 | 14 | 26 | 3 | 31 | 5 |
| 17288 | 29.50 | 32.50 | 3.00 | 14.34 | 0.16 | 1.29 | 1.87 | 3.57 | 1.01 | 0.1 | 0.34 | 0.08 | 72.61 | | 0.18 | | 0.51 | 96.05 | 0.8 | 22 | 109 | 9 | 11 | 1 | 50 | 5 |
| 17289 | 50.00 | 53.00 | 3.00 | 13.58 | 0.075 | 2.98 | 2.2 | 2.81 | 1.46 | 0.13 | 0.39 | 0.12 | 70.07 | | 0.15 | | 0.04 | 94.02 | 0.7 | 3 | 59 | 7 | 13 | 1 | 33 | 5 |
| 17290 | 63.15 | 64.70 | 1.55 | 16.81 | 0.06 | 8.6 | 7.98 | 1.46 | 4.4 | 0.42 | 0.55 | 0.26 | 45.58 | | 0.78 | | 0.97 | 87.88 | 1.4 | 1 | 43 | 198 | 43 | 9 | 140 | 5 |
| 17291 | 65.10 | 66.10 | 1.00 | 17.88 | 0.055 | 8.14 | 11.11 | 1.04 | 4.08 | 0.51 | 0.39 | 0.28 | 44.72 | | 0.83 | | 1.9 | 90.93 | 2 | 1 | 54 | 364 | 46 | 10 | 116 | 5 |
| 17292 | 84.40 | 87.40 | 3.00 | 14.38 | 0.09 | 2.82 | 2.44 | 2.59 | 1.32 | 0.13 | 0.53 | 0.12 | 69.61 | | 0.28 | | 0.12 | 94.43 | 0.8 | 9 | 69 | 13 | 9 | 1 | 37 | 5 |
| 17293 | 102.70 | 105.70 | 3.00 | 13.92 | 0.095 | 3.37 | 2.7 | 2.68 | 1.49 | 0.11 | 0.68 | 0.13 | 68.42 | | 0.26 | | 0.16 | 94 | 0.8 | 22 | 73 | 12 | 15 | 1 | 51 | 10 |
| 17294 | 116.50 | 119.50 | 3.00 | 14.11 | 0.25 | 5.37 | 4.25 | 2.64 | 2.18 | 0.17 | 0.83 | 0.19 | 60.94 | | 0.4 | | 0.49 | 91.81 | 1 | 12 | 199 | 30 | 28 | 3 | 49 | 5 |
| 17295 | 121.00 | 124.00 | 3.00 | 16.14 | 0.05 | 3.43 | 4.72 | 2.42 | 1.46 | 0.11 | 2.73 | 0.13 | 62.5 | | 0.42 | | 0.23 | 94.34 | 0.9 | 8 | 50 | 40 | 11 | 1 | 68 | 5 |

HOLE NUMBER: 89-261

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: LARA PROJECT
PROJECT NUMBER: 242
CLAIM NUMBER: T.L.
LOCATION: NTS 92B/13

PLOTTING COORDS GRID: Mine
NORTH: 11747.00N
EAST: 10697.00W
ELEV: 824.00

ALTERNATE COORDS GRID:
NORTH: 117+47N
EAST: 106+97W
ELEV: 824.00

COLLAR DIP: -58° 0' 0"
LENGTH OF THE HOLE: 289.56m
START DEPTH: 0.00m
FINAL DEPTH: 289.56m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 208° 0' 0"

DATE STARTED: October 22, 1989
DATE COMPLETED: October 26, 1989
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: YES
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: Frontier Drilling
CASING: 6.1
CORE STORAGE: Chemainus

PURPOSE: To test the Randy Zone down dip of hole 260.

Note: This is Hole 261A as well.

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 66.10 | - | -57° 0' | ACID | OK | | - | - | - | - | - | |
| 86.30 | - | -57° 0' | ACID | OK | | - | - | - | - | - | |
| 144.20 | - | 0° 0' | ACID | | Bad etch | - | - | - | - | - | |
| 227.70 | - | -55° 0' | ACID | OK | | - | - | - | - | - | |
| 272.20 | - | -52° 0' | ACID | OK | | - | - | - | - | - | |
| 67.67 | 210° 0' | -58° 0' | SING.SHOT | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|---|-------------|--|--|---------|
| 0.00 TO 4.10 | Overburden «OB» | | | | | |
| 4.10 TO 183.80 | QP Tuff Lapilli Tuff «QP TUFF, LAP TUFF» | <p>Colour: Light green Grain Size: Fine grained</p> <p>2-7% 2-7mm and up to 10mm round quartz eyes, coarse well foliated appearance Some patches with 2-3mm sericitic grains = relic feldspar grains. Streaky appearance from flattened fragments <0.5cm Fragments dark green fiamee, light grey, cream grey felsic frags. Below 21.9 unit also streaked by tan brown wisps</p> <p>31.75-43.3 «Fault» Strong to intense fault gouge development. Upper contact 31.75 - 33.2m running at 2-5 degrees to core axis. Minor sulfides within fault zone associated with quartz veinlets. Fault cross cuts foliations.</p> <p>53.0 - 53.65m Mafic Dyke (Sicker Age) Sheared parallel to foliation, Contacts parallel to foliation</p> <p>67.8 - 68.1m Muddy ash, dark grey, fine grained 5-7% pyrite disseminated parallel to foliations</p> <p>86.5 - 87.4m gougy soft core</p> <p>118.9 - 119.4m Mafic Dyke Dark green, fine grained Abundant wispy carbonate parallel to contacts which parallels foliation</p> | | <p>Blitzed looking but not as great as in hole 260. Moderately sericitic</p> | <p>Occasional <0.5cm quartz pyrite stringers parallel to foliation</p> <p>21.9 - 24.6m 2-3% pyrite disseminated and thin veinlets</p> <p>*64.2-64.35* 1-1.5% slaw coloured sphalerite, 7% pyrite, trace chalcopyrite with tetrahedrite rims. Sulfides wispy and diss parallel to foliation. Interval sharply bounded parallel to foliation Interval more siliceous looking than surrounding rock.</p> | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------|--------------|---|--|--|--|--|
| | | <p>124.0 - 124.6m Fault zone Fault gouge. Sharp lower contact to fault zone at:</p> <p>141.4m 5cm fault gouge</p> <p>Fine grained dark green mafic dyke with sharp contacts parallel to foliation at 150.9-151.5m, 151.7-152.0m, 152.2-152.35m</p> <p>Foliations at: 5.8m 11.8 17.6 24.6 31.3 46.6 52.6 69.8 75.5 81.3 90.2 96.7 104.0 112.4 123.5 138 149.5 166.8 180.0</p> <p>Sharp lower contact</p> | <p>15</p> <p>18 20 10 25 35 29 30 25 32 30 15 28 32 22 20 20 18 18 40 35</p> | <p>130 - 147 Weak to moderate quartz carbonate veining.</p> <p>Alteration appears to decrease down hole but becomes stronger from 177.5 - 186.4m</p> | <p>132.37 - 132.65m 3-4% pyrite assoc. with quartz carbonate veining</p> | <p>125.6m Pull rods for bit change. Rods stuck at 69.2m regain circulation and pull rods. 40 ft of rods left in hole Try to tap onto rods, hole sloughed in cannot reach rods. Tricone through core, hole deviates, start new core at 49.1m New hole 261A.</p> |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|---|--------------------------|---|---|---|
| 183.80 TO 185.40 | Felsic Tuff Ash, Intermed? Tuff «F-I TUFF» | <p>Colour: Light grey and medium green Grain Size: Fine grained</p> <p>183.8 - 184.8m Fine grained aphyric siliceous tuff/ash, moderately foliated. First 10cm intermixed with green mm laminations</p> <p>Foliation at 184.8 184.3</p> <p>184.8 - 185.4m Intermediate? Tuff: Distinctive striped green white caused by carbonate layers. Unit looks similar to end of hole rock in hole 260</p> <p>Foliation at 185.2 Contact at 185.4</p> | 42 42 40 38 | Weakly seritic Weak carbonate veining | <p>183.8 - 184.8m 3-5% pyrite, trace sphalerite and chalcopyrite as disseminated and wispy veinlets parallel to foliation</p> <p>184.8 - 185.4m <1-1% disseminated pyrite</p> | Down dip equivalent of argillite units in hole 89-260 |
| 185.40 TO 289.50 | Felsic Lapilli Tuff «F LAP TUFF» | <p>Colour: Light grey, light green grey Grain Size: Fine grained</p> <p>Light grey QP fragments flattened to 1cm and less, occasionally larger in a fine grained finer QP groundmass. Mainly QP fragments with occasional fiamme. Patchy fragment supported, difficult to tell due to flattening Total quartz eye content 1-3% and locally 5%, 1-3mm, locally 5mm</p> <p>188.75 - 189.1m Mafic dyke, contacts parallel to foliation</p> <p>214.2 - 217.0 Fragment deficient QP Tuff, 1mm quartz eyes 220 - 249m Strong bleached appearance making fragment outlines very indistinct 225.0 - 227.7m Kink folded and distorted foliations. 227.6 - 227.8m Dark grey wisps, faulting slip planes? minor sulfides</p> | | Moderately sericitic Bleached blitzed appearance | <p><1% pyrite as rare qtz pyrite mm stringers</p> <p>205.7 - 205.9m 5% pyrite disseminated and stringers parallel to foliation. Interval more siliceous than surrounding host rock.</p> <p>221.6 - 227.9m 2-3% pyrite as mm stringers and disseminations parallel to foliation</p> | Smaller quartz eyes and lower quartz eye percentage than QP lapilli tuff higher in hole |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------|--------------|--|--|--|--|---------|
| | | 238.9 - 240.3m Felsic Tuff, Ash. Finely laminated, lacking quartz eyes. Minor tan brown streaks, layers. Layering at 239.0 240.2 | 37 36 | | 238.9 - 240.3m Trace sphalerite associated with narrow quartz carbonate veins. 1-3% diss. pyrite | |
| | | Below 254 quartz eyes content decreases to <1-2% with some zones 3-5%. | | | | |
| | | 251.5 - 270.4m Fragments also include tan brown wisps | | | | |
| | | 253.3 - 253.5m Fault zone Well developed fault gouge | | | | |
| | | Below 270.4m Light green, pronounced dark green striping from increase in percentage of fiamae. Quartz eye content <1-2% | | 270.4 - 289.5m Greener fresher appearance, not as blitzed looking as above | | |
| | | 282.35 - 282.75m Mafic Dyke, Sicker age Contacts parallel to foliation | | | | |
| | | 284.45 - 284.66m Fine ashy interval, streaky medium grey, wispy darker green ash | | | 284.45 - 284.66m 5% very fine pyrite, trace sphalerite | |
| | | Foliations at 191.0 198.8 211.5 222.4 230.6 238.0 249.8 259.5 268.7 286.9 | 32 32 40 37 45 28 40 38 38 32 | | | |
| | E.O.H. | | | | | |

| Sample | From (m) | To (m) | Length (m) | ESTIMA GCu ppm | ASSAYS | | | | | Cu % | Pb % | Zn % | IAg oz/t | Ag g/t | IAu oz/t | GEOCHEMICAL | | | SUL % | COMMENTS | |
|--------|----------|--------|------------|----------------------|------------|------------|------------|------------|------------|---------|---------|---------|-------------|-----------|-------------|-------------|----------|------------|----------|----------|--|
| | | | | | GPb ppm | GZn ppm | GAg ppm | GAu ppb | GBa ppm | | | | | | | Au g/t | SG SG | NSR NSR | | | |
| 13263 | 21.90 | 23.25 | 1.35 | 9 | 12 | 32 | 0.5 | 8 | | | | | | | | | | | | | |
| 13264 | 23.25 | 24.60 | 1.35 | 11 | 7 | 31 | 0.6 | 7 | | | | | | | | | | | | | |
| 13265 | 63.20 | 64.20 | 1.00 | 27 | 5 | 44 | 0.4 | 47 | | | | | | | | | | | | | |
| 13269 | 63.20 | 64.20 | 1.00 | 20 | 7 | 47 | 0.8 | 68 | | | | | | | | | | | | | |
| 13266 | 64.20 | 64.40 | 0.20 | 492 | 10 | 5470 | 1.4 | 27 | 1000 | | | | | | | | | | | | |
| 13270 | 64.20 | 64.70 | 0.50 | 265 | 9 | 4430 | 0.9 | 62 | 1400 | | | | | | | | | | | | |
| 13267 | 64.40 | 64.90 | 0.50 | 6 | 7 | 52 | 0.4 | 10 | | | | | | | | | | | | | |
| 13271 | 64.70 | 65.20 | 0.50 | 7 | 6 | 59 | 0.3 | 11 | | | | | | | | | | | | | |
| 13268 | 67.80 | 68.10 | 0.30 | 105 | 16 | 127 | 0.8 | 17 | | | | | | | | | | | | | |
| 13272 | 68.15 | 68.45 | 0.30 | 109 | 27 | 201 | 0.9 | 11 | | | | | | | | | | | | | |
| 13273 | 132.15 | 132.65 | 0.50 | 13 | 32 | 55 | 1.2 | 20 | | | | | | | | | | | | | |
| 13274 | 155.75 | 156.25 | 0.50 | 70 | 21 | 1320 | 0.9 | 2 | 1400 | | | | | | | | | | | | |
| 13275 | 182.80 | 183.80 | 1.00 | 17 | 18 | 72 | 0.4 | 1 | | | | | | | | | | | | | |
| 13276 | 183.80 | 184.80 | 1.00 | 123 | 43 | 455 | 1.9 | 47 | 740 | | | | | | | | | | | | |
| 13277 | 184.80 | 185.40 | 0.60 | 71 | 34 | 144 | 0.8 | 2 | 1000 | | | | | | | | | | | | |
| 13278 | 185.40 | 186.40 | 1.00 | 46 | 21 | 37 | 0.6 | 6 | 990 | | | | | | | | | | | | |
| 13279 | 205.65 | 206.15 | 0.50 | 32 | 19 | 35 | 0.4 | 2 | 1420 | | | | | | | | | | | | |
| 13280 | 238.90 | 240.30 | 1.40 | 43 | 22 | 332 | 2.2 | 51 | 1620 | | | | | | | | | | | | |
| 13281 | 284.30 | 284.80 | 0.50 | 26 | 33 | 227 | 1.6 | 3 | 710 | | | | | | | | | | | | |

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17296 | 8.20 | 11.30 | 3.10 | 12.56 | 0.085 | 2.52 | 1.81 | 1.94 | 1.05 | 0.1 | 0.43 | 0.1 | 74.43 | | 0.16 | | 0.47 | 95.66 | 0.8 | 8 | 91 | 7 | 5 | 1 | 23 | 5 |
| 17297 | 26.50 | 29.30 | 2.80 | 13.79 | 0.115 | 2.22 | 2.51 | 2.9 | 1.44 | 0.11 | 0.35 | 0.11 | 71.57 | | 0.25 | | 0.65 | 96 | 0.7 | 9 | 85 | 11 | 16 | 1 | 58 | 10 |
| 17298 | 58.00 | 61.00 | 3.00 | 14.52 | 0.11 | 2.45 | 2.55 | 3.17 | 1.29 | 0.1 | 0.48 | 0.1 | 69.52 | | 0.25 | | 0.95 | 95.5 | 0.6 | 17 | 88 | 32 | 11 | 1 | 27 | 5 |
| 17299 | 92.60 | 95.60 | 3.00 | 13.74 | 0.085 | 4.21 | 2.58 | 2.05 | 2.24 | 0.15 | 0.54 | 0.17 | 66.34 | | 0.24 | | 0.28 | 92.61 | 0.6 | 8 | 81 | 9 | 23 | 1 | 51 | 5 |
| 17300 | 120.60 | 123.60 | 3.00 | 14.74 | 0.085 | 2.99 | 2.96 | 1.8 | 2.28 | 0.12 | 0.66 | 0.13 | 68.11 | | 0.26 | | 0.66 | 94.79 | 0.9 | 4 | 89 | 17 | 24 | 1 | 69 | 5 |
| 17301 | 144.20 | 147.20 | 3.00 | 15.32 | 0.095 | 2.61 | 2.11 | 2.4 | 1.42 | 0.08 | 0.56 | 0.11 | 69.44 | | 0.27 | | 0.38 | 94.79 | 0.7 | 6 | 95 | 8 | 11 | 1 | 38 | 10 |
| 17302 | 178.90 | 181.90 | 3.00 | 14.33 | 0.165 | 3.04 | 2.29 | 3.36 | 1.7 | 0.16 | 0.41 | 0.13 | 67.95 | | 0.24 | | 0.66 | 94.45 | 0.3 | 4 | 105 | 11 | 20 | 2 | 42 | 5 |
| 17303 | 206.30 | 209.40 | 3.10 | 14.46 | 0.16 | 3.2 | 2.5 | 3.48 | 1.83 | 0.19 | 0.39 | 0.14 | 66.95 | | 0.24 | | 0.8 | 94.36 | 0.2 | 1 | 105 | 10 | 21 | 2 | 39 | 5 |
| 17304 | 233.80 | 236.80 | 3.00 | 13.74 | 0.09 | 1.85 | 1.87 | 2.98 | 1.24 | 0.09 | 0.4 | 0.09 | 73.1 | | 0.21 | | 0.7 | 96.36 | 0.6 | 8 | 76 | 12 | 15 | 1 | 76 | 5 |
| 17305 | 262.70 | 265.70 | 3.00 | 14.52 | 0.095 | 3.01 | 2.37 | 2.13 | 1.49 | 0.1 | 0.69 | 0.12 | 69.33 | | 0.26 | | 0.6 | 94.73 | 0.6 | 1 | 85 | 6 | 19 | 1 | 71 | 5 |
| 17306 | 286.00 | 289.00 | 3.00 | 13.86 | 0.11 | 2.2 | 2.28 | 2.38 | 1.52 | 0.1 | 0.67 | 0.11 | 71.83 | | 0.25 | | 0.4 | 95.73 | 0.5 | 12 | 100 | 8 | 17 | 1 | 66 | 5 |

HOLE NUMBER: 89-262

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: LARA PROJECT
PROJECT NUMBER: 242
CLAIM NUMBER: SILVER 2
LOCATION: NTS 92B/13

PLOTTING COORDS GRID: Mine
NORTH: 10684.00N
EAST: 8968.00W
ELEV: 681.00

ALTERNATE COORDS GRID: Mine
NORTH: 106+84N
EAST: 89+68W
ELEV: 681.00

COLLAR DIP: -55° 0' 0"
LENGTH OF THE HOLE: 203.90m
START DEPTH: 0.00m
FINAL DEPTH: 203.90m

COLLAR GRID AZIMUTH: 184° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 212° 0' 0"

DATE STARTED: October 27, 1989
DATE COMPLETED: October 29, 1989
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: YES
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: Frontier Drilling
CASING: 32.2 m
CORE STORAGE: Chemainus

PURPOSE: To test IP and geochemical anomalies in the Coronation Extension Zone hanging wall.

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 96.30 | - | -43° 0' | ACID | OK | | - | - | - | - | - | |
| 169.80 | - | -42° 0' | ACID | OK | | - | - | - | - | - | |
| 200.90 | 207° 0' | -41°30' | SING.SHOT | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|----------------------|--|--|------------------|---|---------|
| 0.00 TO 32.20 | Casing «OB» | | | | | |
| 32.20 TO 85.60 | Felsic Tuff «F TUFF» | <p>Colour: Light to medium grey</p> <p>Weakly foliated, no distinctive or unique features Patchy fine granular texture with mm siliceous felsic grains in a less siliceous groundmass.</p> <p>32.2 - 34.2m Numerous 10 - 20cm zones of fault gouge</p> <p>76.5 - 84.5m Core becoming weakly bleached, slightly more altered 77.2 - 77.8m Thin green wisps = pumice fragments 81.7m Possible bedding at</p> <p>Foliations at</p> <p style="margin-left: 100px;">35.4 46.3 57.7 66.7</p> | 60 50 52 65 62 | Weakly sericitic | <p>3-5% disseminated pyrite and trace disseminated chalcopyrite. Moderately abundant <1-5cm semi-massive siliceous pyrite +/- chalcopyrite stringers. Significant zones of mineralization as follows:</p> <p>34.9 - 35.25m 5-7% pyrite as mm stringers and disseminated. Includes 5cm of semimassive pyrite with <1% chalcopyrite</p> <p>55.65 - 56.55m 5-10% pyrite and <1% chalcopyrite disseminated and as 2-8cm coarse grained stringers with 15-20% pyrite 56.33 - 56.55m 2% dark grey sphalerite as stringers with pyrite</p> <p>62.45 - 62.80m 5% pyrite, <1% chalcopyrite disseminated</p> <p>65.15 - 68.0m 7-10% disseminated pyrite, trace chalcopyrite</p> <p>81.7 - 82.6m 7-8% pyrite and trace chalcopyrite disseminated and 2-3mm stringers</p> | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|------------------------------------|--|--|--|--|------------------|
| 85.60 TO 92.65 | Diorite «DIOR» | Colour: Dark green Grain Size: Fine grained Feldspar porphyritic to finely equigranular, massive, rare quartz carbonate veinlets. Fine grained, weakly calcareous 30 - 40cm margins. Weakly magnetic. | | | Trace pyrite | |
| 92.65 TO 111.60 | Felsic Tuff Ash «F TUFF,ASH» | Colour: Light to medium grey Grain Size: Fine grained Weakly foliated, aphyric Patchy indistinctly fragmental appearance Patchy granular appearance near top of interval 95.4m 4cm fault zone at 106.85 - 107.8m Felsic to Intermediate Tuff (mixings, rework?) Medium grey felsics with green thin intermediate layers 108.2 - 108.35m Fault Zone Brecciated fragmental zone with a dark grey black muddy FS groundmass (similar to faults seen underground at Coronation Zone) Base of fault zone marked by quartz veining. 108.5 - 111.6m Creamy light grey, strongly bleached, rare quartz eyes Foliations at: 97.5m 105.7m | 30 60 65 | 92.65 - 108.5m Moderately bleached appearance, moderately sericitic 106.85 - 107.8m Moderate to strongly sericitic 108.5 - 111.6m Strongly sericitic | 1-3% disseminated pyrite 109.2 - 109.65m 5% coarse brassy pyrite, includes 4cm of semi massive pyrite | |
| 111.60 TO 112.75 | Felsic Tuff Ash «F TUFF» | Colour: Medium grey Grain Size: Fine grained Fine grained tuff separated from above unit by sulfide content. 111.6 - 111.8m Minor intermediate tuff with a single 1cm chert layer Bedding at 111.7m | 80 | Weak to moderately sericitic patchy silicification associated with sulfides | 15-20% pyrite disseminated includes 111.8 - 111.92m 25% coarse brassy pyrite and 3% chalcopyrite in a siliceous groundmass 112.5 - 112.75m 25-30% pyrite and 4-5% chalcopyrite, trace sphalerite | Possible Horizon |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|---|-------------|--|---|---------|
| | | 111.6 - 111.8m Felsic Ash and chert layers at top of units | | | | |
| 112.75 TO 114.25 | Intermed. Ash «I ASH» | Colour: Medium grey green Grain Size: Fine grained Very fine grains of quartz in a finer groundmass Weak layering at 114.15m at 80 degrees to core axis. Rare chert beds at 113.6 - 113.8m Bedding at 113.6m 113.8m | 82 75 | Moderately chloritic | 3-5% fine disseminated pyrite | |
| 114.25 TO 122.30 | QP Felsic Crystal Tuff «QP TUFF» | Colour: Light grey Grain Size: Fine grained 3-5% 1-4mm subrounded quartz eyes, weakly foliated strong bleached appearance Some areas indistinct QP fragments in QP groundmass Foliations at 117.7m | 57 | Weak to Moderately Sericitic Strongly bleached appearance | 7-10% disseminated pyrite and occasional 0.5 - 2cm quartz pyrite +/- chalcopyrite stringers 118.3 - 118.4m 50% Coarse brassy pyrite, 5% chalcopyrite 119.7 - 119.95m 15-20% coarse brassy pyrite, 2% chalcopyrite | |
| 122.30 TO 126.20 | Intermed. Ash, Tuff «INT ASH, TUFF» | Colour: Medium to dark grey, grey green Grain Size: Fine Grained Weakly foliated, aphyric with patchy more felsic screens with 1-2% quartz/felsic grains Distorted foliations/layering around lower contact | | Moderately sericitic | 5% disseminated pyrite Occasional <1cm brassy pyrite stringers | |
| 126.20 TO 133.10 | QP Felsic Lithic Tuff «QP LITH TUFF» | Colour: Light to medium grey Grain Size: Fine grained Weakly foliated, weak granular appearance becoming more prominent downhole. 1-3% <1-2mm quartz grains Indistinct mm felsic grains | | Weakly sericitic. Finely disseminated epidote replacing feldspar grains | 1-3% disseminated pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|---|-------------|---|--|---------|
| | | Below 130.4m 3-4% mm epidote grains as altered feldspars Sharp lower contact at 133.1m | 72 | | 126.2 - 126.7m 10% pyrite as <1cm brassy pyrite stringers | |
| 133.10 TO 141.70 | Andesitic Ash, Crystal Tuff «AND ASH, TUFF» | Colour: Dark green Grain Size: Fine grained 131.1 - 137.7m 5% 2mm epidote replacing feldspar crystals, fine ashy groundmass 137.7 - 141.7m Fine grained andesitic ash. Patchy areas with 2-5% feldspar grains | | Weak to moderately chloritic groundmass Strong epidote alteration of feldspars | 1-2% disseminated pyrite Rare 1-2cm quartz pyrite stringers 140.3 - 140.65m 15 - 20% coarse brassy pyrite and <1% chalcopyrite as quartz sulfide stringers | |
| 141.70 TO 146.40 | Andesite Crystal Tuff «AND TUFF» | Colour: Dark green Grain Size: Fine grained 10-20% 1-2mm epidote altered feldspar crystals and rare 5mm rounded epidotized fragments. Massive | | Strong epidote alteration of feldspar crystals. Weakly chloritic | 2-3% disseminated pyrite | |
| 146.40 TO 160.00 | Andesite Crystal Lapilli Tuff «AND LAP TUFF» | Colour: Dark green Same as above unit but with 5% 1-5cm epidotized fragments | | Strong epidote alteration of fragments and feldspars | 1% pyrite | |
| 160.00 TO 182.65 | Andesite Crystal Tuff «AND TUFF» | Colour: Dark green Grain Size: Fine grained Same as crystal tuff above Up to 25% epidotized feldspars Occasional crystal poor ashier intervals 165.1 - 167.05m Felsic Tuff, possibly coarse Lapilli Tuff Strong pervasive silicification. Light grey with some darker green streaks Spotty epidote after feldspars ? Contact at 165.1m | 70 | | | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|--|-----------------------------------|--|--|---------|
| | | <p>172.7m Crystal rich, crystal poor contact defining bedding at 72 degrees to core axis</p> <p>174.9 - 175.6m Felsic Tuff. Similar to previous felsic interval</p> <p>178.5 - 179.5m Felsic Tuff, possible lapilli tuff</p> <p>179.5 - 179.75m Diorite. Feldspar porphyritic</p> <p>179.75 - 182.65m 3-5% feldspar; minor hematite within calcite veinlets. Becoming finer and ashier from 181.9 - 182.65m</p> | | <p>177.5 - 178.1m Pervasive silica epidote alteration</p> <p>179.75 - 182.65m Increasing chlorite alteration</p> | <p>181.9 - 182.65m 1-3% pyrite</p> | |
| 182.65 TO 188.05 | Andesite Ash, Tuff, Chert «AND ASH, TUFF, CHT» | <p>Colour: Dark green Grain Size: Fine grained</p> <p>182.65 - 185.8m Andesite ash and thin lamination of light creamy grey chert. Variable core angles to chert units from 15 - 65 degrees. Bedding at 182.85m 183.05m 184.20m</p> <p>184.8 - 185.6m Fault zone: gougy core, very rubbly, poor recovery, minor quartz veining</p> <p>185.8 - 187.3m Andesite tuff: Fine granular texture</p> <p>187.3 - 188.05m Andesite Ash, medium green, weak to moderately foliated. Gougy in last 10cm</p> <p>Faulted lower contact at</p> | <p>64 30 15</p> <p>40</p> | <p>Weakly chloritic</p> <p>187.3 - 188.05m Bleached appearance relative to surrounding andesite</p> | <p>185.8 - 187.3m 1-2% pyrite</p> <p>187.3 - 188.05m 3-4% pyrite</p> | |
| 188.05 TO 203.90 | Andesite Crystal Lithic Tuff «AND LITH TUFF» | <p>Colour: Dark green Grain Size: Fine grained</p> <p>Abundant 1mm siliceous grey translucent grains and 1-3% 1-2mm epidotized feldspars in a finer green groundmass. Rare 1cm epidotized fragments.</p> <p>188.05 - 189.6m Fault zone</p> | | Weakly chloritic | <p>188.05 - 193.7m 1-3% disseminated py</p> | |

HOLE NUMBER: 89-262

MINNOVA INC.
DRILL HOLE RECORD

DATE: 15-December-1989

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS | |
|------------|--------------|--|----------------|------------|----------------|---------------------------|--|
| | E.O.H. | Fault gouge, and gougy core. Fault slips vary from 38 to 52 degrees 191.3 - 192.5m Fault Zone Fault gouge, rubbly core, poor recovery 192.5 - 193.5m Felsic Tuff, light grey, moderately siliceous appearance, rubbly core, poor recovery | | | | 193.7 - 203.9m <1% pyrite | |

| Sample | From (m) | To (m) | Length (m) | ESTIMA GCu ppm | GPb ppm | GZn ppm | GAg ppm | GAu ppb | ASSAYS GBa ppm | Cu % | Pb % | Zn % | IAg oz/t | Ag g/t | IAu oz/t | GEOCHEMICAL | | | SUL % | COMMENTS | |
|--------|----------|--------|------------|----------------------|------------|------------|------------|------------|----------------------|---------|---------|---------|-------------|-----------|-------------|-------------|----------|------------|----------|----------|--|
| | | | | | | | | | | | | | | | | Au g/t | SG SG | NSR NSR | | | |
| 13282 | 34.80 | 35.35 | 0.55 | 2690 | 285 | 1500 | 3.7 | 75 | | | | | | | | | | | | | |
| 13283 | 55.65 | 56.55 | 0.90 | 371 | 117 | 5750 | 1.8 | 37 | | | | | | | | | | | | | |
| 13284 | 65.15 | 66.50 | 1.35 | 173 | 44 | 172 | 1.2 | 30 | | | | | | | | | | | | | |
| 13285 | 66.50 | 68.00 | 1.50 | 102 | 39 | 117 | 0.8 | 26 | | | | | | | | | | | | | |
| 13286 | 81.70 | 82.60 | 0.90 | 1155 | 52 | 385 | 2.3 | 88 | | | | | | | | | | | | | |
| 13287 | 106.85 | 107.80 | 0.95 | 73 | 36 | 161 | 1.2 | 49 | | | | | | | | | | | | | |
| 13289 | 111.60 | 112.75 | 1.15 | | | | | | | 1.42 | 0.01 | 0.12 | | 5.9 | | 0.14 | | | | | |
| 13290 | 112.75 | 114.25 | 1.50 | 521 | 19 | 106 | 1.4 | 14 | | | | | | | | | | | | | |
| 13291 | 114.25 | 115.25 | 1.00 | 3825 | 13 | 88 | 1.2 | 23 | | | | | | | | | | | | | |
| 13292 | 118.10 | 119.55 | 1.45 | 4340 | 15 | 96 | 2 | 48 | 1740 | | | | | | | | | | | | |
| 13293 | 119.55 | 121.00 | 1.45 | 2270 | 12 | 83 | 1.3 | 30 | | | | | | | | | | | | | |
| 13295 | 122.45 | 123.90 | 1.45 | 31 | 19 | 43 | 0.9 | 12 | | | | | | | | | | | | | |
| 13294 | 140.20 | 140.70 | 0.50 | 2095 | 28 | 70 | 1.8 | 31 | | | | | | | | | | | | | |
| 13295 | 181.90 | 182.65 | 0.75 | | | | | | | | | | | | | | | | | | |
| 13296 | 182.65 | 183.50 | 0.85 | 11 | 20 | 42 | 0.8 | 19 | 4500 | | | | | | | | | | | | |
| 13297 | 183.50 | 184.40 | 0.90 | 13 | 18 | 47 | 1.1 | 20 | | | | | | | | | | | | | |
| 13298 | 184.40 | 185.80 | 1.40 | 9 | 21 | 41 | 1.1 | 9 | | | | | | | | | | | | | |
| 13299 | 187.30 | 188.05 | 0.75 | 417 | 20 | 73 | 1.5 | 29 | | | | | | | | | | | | | |

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17307 | 37.20 | 40.20 | 3.00 | 14.24 | 0.135 | 0.94 | 4.56 | 2.69 | 4.22 | 0.14 | 1.28 | 0.12 | 66.18 | | 0.3 | | 1.66 | 96.47 | 0.6 | 1 | 114 | 131 | 46 | 2 | 156 | 20 |
| 17308 | 69.20 | 72.20 | 3.00 | 15.47 | 0.155 | 0.52 | 4.67 | 3.21 | 2.95 | 0.07 | 1.64 | 0.1 | 65.92 | | 0.35 | | 2.86 | 97.91 | 0.5 | 5 | 147 | 39 | 41 | 1 | 68 | 5 |
| 17309 | 96.30 | 99.30 | 3.00 | 15.81 | 0.22 | 0.37 | 2.69 | 3.75 | 4.31 | 0.1 | 0.28 | 0.1 | 67.69 | | 0.34 | | 1.18 | 96.84 | 0.5 | 1 | 187 | 5 | 40 | 1 | 66 | 5 |
| 17310 | 110.10 | 111.60 | 1.50 | 13.25 | 0.25 | 0.7 | 1.4 | 3.69 | 1.42 | 0.04 | 0.18 | 0.08 | 75.31 | | 0.18 | | 1.66 | 98.15 | 0.3 | 1 | 196 | 47 | 7 | 1 | 21 | 5 |
| 17311 | 115.25 | 116.25 | 1.00 | 14.76 | 0.155 | 1.27 | 4.3 | 3.6 | 1.26 | 0.06 | 0.98 | 0.1 | 68.35 | | 0.29 | | 2.86 | 97.98 | 0.4 | 2 | 117 | 175 | 7 | 1 | 26 | 5 |
| 17312 | 122.30 | 123.60 | 1.30 | 16.16 | 0.095 | 0.77 | 10.7 | 1.56 | 8.6 | 0.25 | 0.88 | 0.19 | 52.84 | | 0.69 | | 3.78 | 96.51 | 1 | 1 | 76 | 101 | 61 | 2 | 139 | 10 |
| 17313 | 127.10 | 130.10 | 3.00 | 13.21 | 0.135 | 0.62 | 5.84 | 2.24 | 4.67 | 0.12 | 1.12 | 0.12 | 66.36 | | 0.28 | | 3.4 | 98.1 | 0.6 | 1 | 174 | 17 | 41 | 2 | 69 | 5 |
| 17314 | 160.60 | 163.60 | 3.00 | 17.43 | 0.025 | 3.71 | 8.82 | 0.22 | 6.74 | 0.33 | 3.44 | 0.26 | 53.16 | | 0.64 | | 1.66 | 96.44 | 1.3 | 1 | 79 | 275 | 50 | 4 | 108 | 5 |
| 17315 | 195.10 | 198.10 | 3.00 | 17.39 | 0.06 | 2.5 | 7.38 | 0.54 | 6.09 | 0.32 | 4.15 | 0.2 | 56.21 | | 0.62 | | 0.7 | 96.17 | 1 | 1 | 110 | 303 | 64 | 4 | 129 | 15 |

HOLE NUMBER: 89-263

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: LARA PROJECT
PROJECT NUMBER: 242
CLAIM NUMBER: SILVER 2
LOCATION: NTS 92B/13

PLOTTING COORDS GRID: MINE
NORTH: 10514.00N
EAST: 8982.00W
ELEV: 664.00

ALTERNATE COORDS GRID: Mine
NORTH: 105+14N
EAST: 89+82W
ELEV: 664.00

COLLAR DIP: -67° 0' 0"
LENGTH OF THE HOLE: 241.70m
START DEPTH: 0.00m
FINAL DEPTH: 241.70m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 208° 0' 0"

DATE STARTED: October 29, 1989
DATE COMPLETED: November 1, 1989
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: YES
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: Frontier Drilling
CASING: 16.5m
CORE STORAGE: Chemainus

PURPOSE: To test the Coronation Extension Zone 250m east of the last drill fence.

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 16.50 | - | -65° 0' | ACID | OK | | - | - | - | - | - | |
| 56.70 | - | -64° 0' | ACID | OK | | - | - | - | - | - | |
| 117.70 | - | -63° 0' | ACID | OK | | - | - | - | - | - | |
| 172.80 | - | -63° 0' | ACID | OK | | - | - | - | - | - | |
| 217.30 | - | -62° 0' | ACID | OK | | - | - | - | - | - | |
| 241.70 | - | -62° 0' | ACID | OK | | - | - | - | - | - | |
| 95.10 | 205° 0' | -64° 30' | SING.SHOT | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|------------------------------------|---|------------------------------|--|---------------------------|---------|
| 0.00 TO 16.90 | Overburden «OB» | | | | | |
| 16.90 TO 23.20 | Mafic Dyke Diorite «M DYKE» | Colour: Dark green Grain Size: Fine grained Weakly foliated outlined by pervasive wispy carbonate 17.9 - 18.6m Feldspar porphyritic diorite. Blocky core | | | | |
| 23.20 TO 40.40 | Andesite Tuff «AND TUFF» | Colour: Dark green Grain Size: Fine grained Weakly foliated 23.2 - 29.5m Fine granular appearance lacking feldspar crystals. Below 29.5m, 1-5% mm epidotized feldspar crystals. Occasional 2-4mm siliceous grey felsic grains 24.4 - 26.5m Fault zone, <20% recovery 29.5m 1cm chert layer between feldspar phytic and feldspar lacking interval Bedding at 29.5m 29.8m Bedding defined by crystal rich, crystal poor layering Bedding at 29.8m 36.2 - 37.0m Mafic Dyke. Medium green, fine grained, weakly foliated Contact at 36.2m Foliation at 37.3m Lower contact gougy rubbly core | 45 41 60 40 | Weakly chloritic groundmass Epidote alteration of feldspars | <1-2% disseminated pyrite | |
| 40.40 TO 43.60 | Mafic Dyke, Diorite «M DYKE» | Colour: Dark green Grain Size: Fine grained Weakly foliated, fine creamy green speckled appearance from weakly epidotized mm feldspars. Also, fine white specks = calcite | | Pervasive fine calcite throughout | Trace pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|-----------------|---|---|-------------|---|---|--|
| | | Rubbly lower contact | | | | |
| 43.60 TO 51.00 | Andesite Ash, Chert «AND ASH, CHT» | Colour: Dark green grey Grain Size: Fine grained Fine weakly foliated homogenous ash with intervals of distorted laminated grey ash and occasional cherts. 43.6 - 44.4m Healed brecciated zone with some gougy zones 45.1 - 45.7m Well developed laminations, distorted and folded, no bedding measurements | | Weakly chloritic | 43.6 - 47.2m 5% very fine pyrite, mainly within laminated ashes disseminated and concentrated in thin beds 47.2 - 51.00m 2-3% fine disseminated pyrite | Blocky core throughout, approx. 70% recovery 49.7 - 51.0m 10 - 15% recovery |
| 51.00 TO 113.80 | Andesite Crystal Tuff «AND TUFF» | Colour: Dark green Grain Size: Fine grained 3-7% 1-2mm epidote altered feldspar crystals and occasional 1-2cm epidotized fragments (or possible epidote patches) Weakly foliated, some massive sections 2-3% mm grey siliceous felsic grains Chert fragments at 53.2m Foliation at 58.0m 70.9 - 72.55m Black muddy pyritic wisps to layers within andesite. 10cm fault gouge at 71.1m 72.4 - 72.55m Healed breccia zone, andesite fragments in muddy groundmass 70.8 - 85.4m 2-5cm epidote patches on epidotized fragments. Some with sharp outline, some more diffuse with minor quartz veining. 85.4 - 89.5m Felsic Tuff, Dyke? Light grey green, fine grained, strong pervasive silicified appearance 85.4 - 86.6m 2-3% 2mm epidote grains 87.8 - 88.4m 2-5% quartz grains and grey siliceous felsic grains 88.7 - 89.5m Strongly silicified layered ash | 43 | Moderate epidote alteration of feldspars. Weakly chloritic groundmass 70.8 - 85.4m Epidote patches, Patchy alteration or fragment replacement | 70.9 - 72.55m 5-7% fine sulfides and pyrite disseminated within andesitic and within muddy zones. 72.05 - 72.15m 10% pyrite, 1% chalcopyrite associated with grey brecciated quartz 70.8 - 85.4m Occasional 1-2cm pyrite aggregates associated with epidote patches | 70.9 - 72.55m Possible argillite or argillaceous zone locus for faulting. Similar to faults seen underground at Coronation Zone. |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|----------------------|---|---|--|--|---------|
| | | <p>Layering at 89.3m</p> <p>94.8 - 98.25m Felsic Tuff, Dyke? Light grey, fine grained, strong pervasive silicification. 0.5cm layering in first 15cm. Very fine <<1mm white specks. Blocky core</p> <p>Layering at 94.9m</p> <p>98.25 - 111.40m <1% Green epidote altered feldspars. Abundant fine, siliceous grey felsic grains</p> <p>109.45 - 109.6m Felsic Ash, Dyke? Mottled green, weak/layered appearance, strongly silicified</p> <p>Contact at 109.6m</p> <p>109.9 - 110.3m Felsic Ash, Dyke Same as above interval</p> <p>111.4 - 112.0m Possible fault zone. Brecciated felsic tuff and andesite with a dark grey pyritic muddy groundmass.</p> <p>112.0 - 112.25m Mafic Dyke</p> <p>Lower Contact at 113.85m</p> | <p>48</p> <p>62</p> <p>25</p> <p>48</p> | <p>112.25 - 113.85m Strong pervasive epidotization</p> | <p>89.5 - 94.8m 2-4% dark disseminated pyrite</p> <p>98.25 - 109.0m 2-4% disseminated pyrite</p> | |
| 113.80 TO 128.25 | Felsic Dyke «F DYKE» | <p>Colour: Light creamy grey Grain Size: Fine grained</p> <p>Massive with patchy fractured appearances Very fine mm epidote grains Occasional 20-30cm screens of felsic tuff and epidotized andesite</p> <p>122.2 - 124.0m Mafic Dyke Dark green, massive, fine grained Lacking epidotization of andesitic units</p> <p>Contact at 122.2m 124.0m</p> <p>124.0 - 128.25m 2-4mm blueish quartz eyes</p> | <p>40</p> <p>50</p> | <p>Stongly silicified</p> | <p>1% pyrite along fracture planes</p> | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|-------------|---|---|---------|
| | | Contact at 128.25m | 45 | | | |
| 128.25 TO 155.60 | Andesitic Tuff Pyroxene Phyric «AND TUFF» | <p>Colour: Dark Green Grain Size: Fine Grained</p> <p>1-2cm epidote balls with diffuse edges Some sharply edged epidotized fragments and 1-10cm and up to 20cm epidote patches Occasional indistinct siliceous felsic fragments <1cm</p> <p>133.7 - 135.9m 1% 2-3mm dark green fairly fresh equant pyroxene crystals. Occasional <1cm felsic fragments</p> <p>144.6 - 155.6m 2-7% 2-4mm pyroxene crystals Sharp lower contact at 155.60m</p> | 55 | Moderate to patchy strong pervasive epidote Occasional quartz carbonate veinlets | <p>128.25 - 140.5m 3-5% disseminated pyrite, trace chalcopyrite 128.5 - 129.15m 5-10% pyrite</p> <p>140.5 - 155.6m 1-2% pyrite 143.7 - 143.95m 10-15% pyrite, siliceous groundmass</p> | |
| 155.60 TO 179.05 | Felsic Dyke «F DYKE» | <p>Colour: Light grey Grain Size: Fine grained</p> <p>Massive, pervasive silicified appearance 5-7% 1-2mm green epidote grains, patchy 3-7% white feldspars and 1-2% 2-4mm round blueish and clear quartz eyes Rubbly blocky core Screens of Andesite crystal tuff toward lower contacts as follows: 165.8 - 167.6m, 170.0 - 170.6m, 175.2 - 176.75m Shearing at 176.5m</p> <p>Sharp lower contact somewhat irregular but very shallow to core axis, 10 - 15 degrees</p> | 20 | Strongly silicified, primary feature | <p>176.26 - 176.80m 7-10% pyrite disseminated in layers parallel to shearing and associated with quartz veinlets</p> <p>176.80 - 179.05m 1-3% pyrite and up to 5% pyrite mainly along fracture planes</p> | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|-----------------------------|--|----------------------------------|--|--|---------|
| 179.05 TO 197.80 | Andesite Tuff «AND TUFF» | <p>Colour: Dark green Grain Size: Fine Grained</p> <p>1-2mm epidote grains, 2-3cm epidote balls with diffuse edges and sharp edged epidotized fragments</p> <p>180.4 - 181.70m Occasional irregular mm black wispy mud layers and weak stockwork over 5cm widths</p> <p>181.95 - 182.30m Felsic Tuff Medium grey green, weakly foliated, aphyric but with faint indistinct 0.5cm wispy fragments Foliation at 182.2m</p> <p>184.15 - 184.75m Felsic Tuff Medium grey green, similar to above felsic tuff</p> <p>186.85 - 187.6m Andesite ash Weakly foliated, aphyric, some distorted foliations</p> <p>195.3 - 196.9m Felsic Dyke Light grey, fine grained, strongly silicified</p> <p>197.5 - 197.8m Gougy sheared contact Fault contact at 197.8m</p> | 32 52 | <p>Moderate epidote as altered fragments and grains (fsp) and epidote balls</p> <p>195.9 - 196.6m Milky white quartz veining</p> | <p>180.4 - 181.7m Fine sulfides within black mud</p> <p>181.95 - 182.30m 7-10% fine disseminated pyrite</p> <p>182.3 - 184.15m 1% disseminated pyrite</p> <p>184.15 - 185.0m 7-10% pyrite</p> <p>195.9 - 196.6m 10-15% pyrite as dark fine grained massive blotches within and along margins of quartz veins</p> | |
| 197.80 TO 203.05 | Felsic Tuff «F TUFF» | <p>Colour: Light grey Grain Size: Fine grained</p> <p>Aphyric, patchy silicification Brecciated and milled appearance with weak to moderate fault gouge development First 10cm black cherty argillite, fault bounded</p> <p>Faulted lower contact</p> | 42 | Patchy strong silicification | Nil | |
| 203.05 TO 209.60 | Diorite «DIOR» | <p>Colour: Dark green Grain Size: Fine grained</p> <p>5-10% 2-5mm ragged feldspars. Pervasive weak milled appearance</p> | | Minor quartz +/- carbonate veining | | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------------|--------------------------------|--|--|---|--------------------|---|
| | | 1-2% tan leucoxene First 20cm gougy diorite | | | | |
| 209.60 TO 241.70 | QP Felsic Tuff «QP TUFF» | Colour: Light creamy grey Grain Size: Fine grained 1-3% <1-1mm fine quartz eyes, rare zones with 3-4% white feldspars 209.6 - 212.2m Lighter green colour, more granular appearance from fine siliceous felsic grains Foliation at 211.70m 212.2 - 226.6m Moderately bleached appearance Finely brecciated in areas of mild silicification 212.4 - 212.55m Fault gouge Fault at 212.55m 215.7 - 215.85m Fault gouge Fault at 215.7m 215.85m 226.5m 2cm fault gouge Fine grained, weakly foliated calcareous mafic dykes from 226.6 - 228.6m, 229.15 - 231.3m Contact at 231.3m 231.3 - 241.7m Blocky rubbly core, numerous gouge zones | 50 54 50 60 78 | Weakly sericitic, patchy silicification | Trace - <1% pyrite | |
| | E.O.H. | | | | | 241.7m Rods stuck for 5 hours. After rods were freed, could not get back to bottom of hole. Hole abandoned. |

| Sample | From (m) | To (m) | Length (m) | ESTIMA Gcu ppm | GPb ppm | GZn ppm | GAg ppm | GAu ppb | ASSAYS GBa ppm | Cu % | Pb % | Zn % | IAg oz/t | GEOCHEMICAL | | | | | SUL % | COMMENTS | | | | |
|--------|-------------|-----------|---------------|----------------------|------------|------------|------------|------------|----------------------|---------|---------|---------|-------------|-------------|-------------|-----------|----------|------------|----------|----------|--|--|--|--|
| | | | | | | | | | | | | | | Ag g/t | IAu oz/t | Au g/t | SG SG | NSR NSR | | | | | | |
| 13300 | 43.60 | 44.80 | 1.20 | 26 | 18 | 43 | 1 | 13 | | | | | | | | | | | | | | | | |
| 13301 | 44.80 | 45.70 | 0.90 | 11 | 13 | 49 | 1.1 | 34 | | | | | | | | | | | | | | | | |
| 13302 | 45.70 | 47.20 | 1.50 | 10 | 12 | 60 | 1.2 | 28 | | | | | | | | | | | | | | | | |
| 13303 | 47.20 | 48.40 | 1.20 | 6 | 10 | 39 | 0.8 | 9 | | | | | | | | | | | | | | | | |
| 13304 | 48.40 | 49.70 | 1.30 | 9 | 11 | 43 | 0.7 | 9 | | | | | | | | | | | | | | | | |
| 13305 | 128.50 | 129.15 | 0.65 | 42 | 19 | 60 | 1 | 2 | | | | | | | | | | | | | | | | |
| 13306 | 143.55 | 144.05 | 0.50 | 171 | 22 | 38 | 1.1 | 13 | | | | | | | | | | | | | | | | |
| 13307 | 176.25 | 176.80 | 0.55 | 30 | 23 | 49 | 1.6 | 3 | | | | | | | | | | | | | | | | |
| 13308 | 181.95 | 182.30 | 0.35 | 68 | 18 | 46 | 1.2 | 1 | | | | | | | | | | | | | | | | |
| 13309 | 184.15 | 185.00 | 0.85 | 510 | 19 | 64 | 1.4 | 1 | | | | | | | | | | | | | | | | |
| 13310 | 195.90 | 196.60 | 0.70 | 47 | 12 | 16 | 0.7 | 1 | | | | | | | | | | | | | | | | |

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17316 | 31.10 | 34.10 | 3.00 | 16.08 | 0.09 | 1.76 | 9.6 | 0.69 | 7.13 | 0.2 | 2.85 | 0.19 | 54.74 | | 0.61 | | 1.66 | 95.6 | 1.3 | 1 | 183 | 17 | 64 | 1 | 88 | 5 |
| 17317 | 60.00 | 63.00 | 3.00 | 16.03 | 0.1 | 2.63 | 9.09 | 0.82 | 7.15 | 0.34 | 2.94 | 0.24 | 53.6 | | 0.6 | | 2.86 | 96.4 | 1.4 | 1 | 188 | 131 | 53 | 4 | 134 | 10 |
| 17318 | 90.30 | 93.30 | 3.00 | 16.95 | 0.035 | 3.57 | 11.19 | 0.24 | 5.95 | 0.24 | 3.5 | 0.24 | 50.99 | | 0.66 | | 3.4 | 96.96 | 1.7 | 1 | 118 | 26 | 46 | 2 | 95 | 5 |
| 17319 | 131.70 | 134.70 | 3.00 | 15.17 | 0.015 | 7.92 | 10.24 | 0.11 | 5.69 | 0.25 | 4.23 | 0.33 | 49.22 | | 0.72 | | 4.52 | 98.42 | 1.7 | 1 | 35 | 217 | 40 | 1 | 65 | 5 |
| 17320 | 188.10 | 191.10 | 3.00 | 16.67 | 0.04 | 6.46 | 9.59 | 0.35 | 4.95 | 0.19 | 3.26 | 0.28 | 51.27 | | 0.78 | | 3.3 | 97.13 | 2.3 | 1 | 270 | 745 | 40 | 1 | 76 | 5 |
| 17321 | 199.90 | 202.10 | 2.20 | 15.08 | 0.62 | 3.56 | 1.74 | 4.87 | 1.03 | 0.05 | 1.59 | 0.14 | 65.65 | | 0.22 | | 0.14 | 94.7 | 0.6 | 1 | 3658 | 18 | 11 | 1 | 40 | 5 |
| 17322 | 220.30 | 222.80 | 2.50 | 14.82 | 0.085 | 1.93 | 1.44 | 5.71 | 0.59 | 0.03 | 1.47 | 0.11 | 69.85 | | 0.22 | | 0.1 | 96.34 | 0.3 | 9 | 81 | 5 | 4 | 1 | 12 | 5 |

HOLE NUMBER: 89-268

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: LARA PROJECT
PROJECT NUMBER: 242
CLAIM NUMBER: FANG
LOCATION: NTS 92B/13W

PLOTTING COORDS GRID: MINE
NORTH: 11136.00N
EAST: 5430.00W
ELEV: 736.00

ALTERNATE COORDS GRID:
NORTH: 111+36N
EAST: 54+30W
ELEV: 736.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 86.26m
START DEPTH: 0.00m
FINAL DEPTH: 86.26m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 208° 0' 0"

DATE STARTED: November 15, 1989
DATE COMPLETED: November 16, 1989
DATE LOGGED: November 16, 1989

COLLAR SURVEY: NO
MULTISHOT SURVEY: YES
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING LTD.
CASING: 27.4 m
CORE STORAGE: CHEMAINUS

PURPOSE: Test barite horizon

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 32.61 | - | -41° 0' | ACID | OK | | - | - | - | - | - | |
| 82.00 | 212° 0' | -38° 0' | SING.SHOT | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|---|----------------|--|---|------------------------------|
| 0.00 TO 27.40 | «OB» | | | | | |
| 27.40 TO 39.15 | Andesite Crystal Lithic Tuff «AND TUFF» | Colour: Medium green Grain Size: Medium to coarse grained Thick bedded, weakly foliated 5% white to ghosty to predominately epidote altered feldspar crystal to 1.5mm 3-5% light green epidote altered lithic fragments to 6mm, <1% to 4cm | | Weakly developed chlorite on foliation surfaces | 1% disseminated, minor stringers of fine to medium grained pyrite, rare trace disseminated chalcopyrite | |
| 39.15 TO 45.87 | Andesite Ash to Lithic Tuff «AND ASH, LITH TUFF» | Colour: Medium green Grain Size: Fine to medium grained Thick bedded, weakly foliated 1-2% ghosty feldspar crystals to 0.5mm 1% light green epidote altered lithic fragments to 3mm 3-5% quartz granuales to 1mm 41.86 - 42.39m 30% quartz vein, quartz, pyrite, chalcopyrite, stringer | | Weakly developed chlorite on foliation surfaces | 1% disseminated and stringers of fine to medium grained pyrite, rare trace chalcopyrite 41.86 - 42.39m 30% medium to coarse grained pyrite, 3% coarse grained chalcopyrite 42.39 - 45.87m 2-3% pyrite, predominately in stringers with trace chalcopyrite | Lower contact is gradational |
| 45.87 TO 57.70 | Quartz Porphyry Felsic Tuff «QP TUFF» | Colour: Light grey, weak green cast Grain Size: Medium grained Thick bedded, moderately foliated 2% quartz eyes, <1-4mm 1-2% white to ghosty to clay altered feldspar crystals to 0.5mm 46.21 - 46.22m Fault, gouge 90 degrees 48.26m CAF 51.84m CAF 57.19m CAF | 50 64 60 | Weak to moderately developed sericite and minor chlorite on foliation planes | 1% predominately stringer medium grained pyrite, rare trace chalcopyrite 57.50 - 57.70m 3-5% medium to coarse grained pyrite stringers, trace | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|---|--|---|--|---------------------------------|
| | | | | | chalcopyrite | |
| 57.70 TO 81.67 | Andesite Crystal Lithic Tuff «AND LITH TUFF» | <p>Colour: Medium green Grain Size: Medium grained</p> <p>Thick bedded, moderately foliated 3-5% ghosty to predominately epidote altered feldspar crystals to 1mm 5% quartz granules to 2mm 1% light green epidote altered lithic fragments to 2mm</p> <p>62.20m CAF</p> <p>‡64.60-69.00‡ Andesite crystal lithic to lapilli tuff «AND XLT-Lat» 2-3% felsic and mafic fragments to 2cm 65.20 - 66.60m Fault, very poor recovery, gouge and strongly sheared</p> <p>‡69.00-71.70‡ Quartz Feldspar Porphyry Tuff «QFP Tuff» White, thick bedded, well foliated 3% quartz eyes to 2mm, 3-5% epidote altered feldspar crystals to 1mm</p> <p>69.50m CAF</p> <p>71.50 - 71.73m Quartz vein</p> <p>71.73 - 72.23m Fault, strongly sheared</p> <p>74.04 - 74.15m Quartz pyrite stringer</p> <p>74.85 - 74.98m Quartz pyrite stringer</p> <p>74.98 - 81.67m Interbedded sequence of andesite ash and crystal lithic tuff</p> <p>76.94m CAB</p> <p>77.25 - 78.03m quartz pyrite stringer</p> | 59 60 85 | <p>Weak to moderately developed chlorite on foliation surfaces</p> <p>69.00 - 71.70m Very well developed sericite on foliation surfaces</p> | <p>1-2% disseminated to stringers of fine to medium grained pyrite, local trace chalcopyrite</p> <p>65.20 - 66.60m Fragments of quartz pyrite stringers 69.00 - 71.70m 1-2% disseminated and stringer fine to medium grained pyrite trace chalcopyrite</p> <p>71.50 - 71.73m 3-5% pyrite, trace chalcopyrite</p> <p>74.04 - 74.15m 70% medium grained pyrite 74.85 - 74.98m 15% pyrite</p> <p>77.25 - 78.03m 10% fine to medium grained pyrite, trace chalcopyrite</p> | <p>69.00 - 71.70m "Blitzed"</p> |

HOLE NUMBER: 89-268

MINNOVA INC.
DRILL HOLE RECORD

DATE: 15-December-1989

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|---|-------------|--|---|---------|
| 81.67 TO 83.75 | Quartz Feldspar Porphyry Felsic Tuff «QFP TUFF» | Colour: Light grey, weak green cast Grain Size: Fine to medium grained Thick bedded, moderately foliated 2-3% quartz eyes to 1mm 2% white ghosty to weakly epidote altered feldspar crystals to 0.5mm 82.05 - 82.17m Quartz vein | | Weak to moderately developed sericite and minor chlorite on foliation surfaces | <1% disseminated fine grained pyrite | |
| 83.75 TO 86.26 | Intermed. Ash «I ASH» E.O.H. | Colour: Light greenish grey Grain Size: Fine grained Thinly bedded, moderately foliated Interbedded ash with minor lithic tuff 85.71m CAB | 90 | Weakly developed sericite and chlorite on foliation planes | 2-3% disseminated, bedded very fine grained pyrite, locally 10% | |

HOLE NUMBER: 89-268

DRILL HOLE RECORD

LOGGED BY: John Kapusta

PAGE: 4

HOLE NUMBER: 89-268

ASSAY SHEET

DATE: 15-December-1989

| Sample | From (m) | To (m) | Length (m) | ESTIMA GCu ppm | ASSAYS | | | | | Cu % | Pb % | Zn % | I Ag oz/t | Ag g/t | IAu oz/t | GEOCHEMICAL | | | SUL % | COMMENTS |
|--------|----------|--------|------------|----------------------|------------|------------|------------|------------|------------|---------|---------|---------|--------------|-----------|-------------|-------------|----------|------------|----------|----------|
| | | | | | GPb ppm | GZn ppm | GAg ppm | GAu ppb | GBa ppm | | | | | | | Au g/t | SG SG | NSR NSR | | |
| 13552 | 41.86 | 42.39 | 0.53 | 4510 | 26 | 77 | 2.3 | 51 | 650 | | | | | | | | | | | |
| 13553 | 57.00 | 57.70 | 0.70 | 70 | 33 | 106 | 0.8 | 40 | 1570 | | | | | | | | | | | |
| 13554 | 69.00 | 71.63 | 2.63 | 85 | 7 | 14 | 0.4 | 1 | 8200 | | | | | | | | | | | |
| 13555 | 77.25 | 78.03 | 0.78 | 877 | 11 | 21 | 0.7 | 10 | 3840 | | | | | | | | | | | |
| 13556 | 81.67 | 83.75 | 2.08 | 5 | 6 | 42 | 0.4 | 4 | | | | | | | | | | | | |
| 13557 | 83.75 | 85.00 | 1.25 | 9 | 15 | 93 | 0.8 | 18 | 1140 | | | | | | | | | | | |
| 13558 | 85.00 | 86.26 | 1.26 | 24 | 17 | 94 | 0.8 | 24 | 1400 | | | | | | | | | | | |

HOLE NUMBER: 89-268

ASSAY SHEET

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HOLE NUMBER: 89-268

GEOCHEM. SHEET

DATE: 15-December-1989

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17179 | 29.57 | 32.57 | 3.00 | 16.81 | 0.04 | 4.19 | 8.55 | 0.64 | 5.49 | 0.33 | 3.07 | 0.26 | 54.66 | 0.59 | | | 1.24 | 95.88 | 1.4 | 1 | 78 | 297 | 63 | 3 | 160 | 5 |
| 17180 | 52.73 | 55.73 | 3.00 | 14.31 | 0.1 | 0.74 | 3.94 | 2.29 | 3.11 | 0.13 | 2.46 | 0.11 | 68.65 | 0.29 | | | 1.17 | 97.3 | 0.4 | 13 | 118 | 16 | 32 | 1 | 91 | 10 |
| 13556 | 81.67 | 83.75 | 2.08 | 12.51 | 0.15 | 1.9 | 3.74 | 3.48 | 2.42 | 0.14 | 1.49 | 0.22 | 69.9 | 0.21 | | | 0.95 | 97.11 | 0.5 | 23 | 164 | 6 | 11 | 2 | 44 | 5 |

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GEOCHEM. SHEET

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HOLE NUMBER: 89-269

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS:

METRIC UNITS: X

PROJECT NAME: LARA PROJECT
PROJECT NUMBER: 242
CLAIM NUMBER: SILVER 1
LOCATION: NTS 92B/13W

PLOTTING COORDS GRID: MINE
NORTH: 11375.00N
EAST: 6794.00W
ELEV: 729.00

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -65° 0' 0"
LENGTH OF THE HOLE: 250.54m
START DEPTH: 0.00m
FINAL DEPTH: 250.54m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 208° 0' 0"

DATE STARTED: November 17, 1989
DATE COMPLETED: November 20, 1989
DATE LOGGED: November 20, 1989

COLLAR SURVEY: NO
MULTISHOT SURVEY: YES
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: YES
HOLE SIZE: NQ

CONTRACTOR: FRONTIER DRILLING
CASING: 9.1 m
CORE STORAGE: CHEMAINUS

PURPOSE: To test an IP anomaly in an area of anomalous geochem (Ba,Cu,Zn,Na2O)

DIRECTIONAL DATA:

| Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments | Depth (m) | Astronomic Azimuth | Dip degrees | Type of Test | FLAG | Comments |
|-----------|--------------------|-------------|--------------|------|----------|-----------|--------------------|-------------|--------------|------|----------|
| 39.00 | - | -63° 0' | ACID | OK | | - | - | - | - | - | |
| 89.00 | - | -62° 0' | ACID | OK | | - | - | - | - | - | |
| 209.39 | - | -60° 0' | ACID | OK | | - | - | - | - | - | |
| 250.54 | - | -59° 0' | ACID | OK | | - | - | - | - | - | |
| 145.50 | 210° 0' | -61° 30' | SING.SHOT | OK | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |
| - | - | - | - | - | | - | - | - | - | - | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|---|---|-------------|--|--|---------|
| 0.00 TO 9.14 | «OB» | | | | | |
| 9.14 TO 62.70 | «DIORITE» | <p>Colour: Dark green Grain Size: Coarse grained</p> <p>Thick, massive, weakly foliated Feldspar porphyritic Equigranular</p> <p>16.80 - 19.20m Very Rubbly 30.48 - 31.45m Very Rubbly 33.22 - 34.44m Very Rubbly 35.36 - 37.00m Very Rubbly 38.71 - 40.20m Very Rubbly 52.80 - 53.50m Very Rubbly</p> <p>53.50 - 53.86m Very black medium grained dyke</p> <p>53.86 - 62.70m Fine to medium grained phase</p> <p>60.56 - 60.68m Quartz carbonate vein with trace chalcopyrite</p> <p>Contact at 62.70m</p> | 85 | | | |
| 62.70 TO 70.45 | Quartz Porphyry Tuff «QP TUFF» | <p>Colour: White Grain Size: Medium grained</p> <p>Thick bedded, massive, weakly foliated 3-5% quartz eyes to 4mm There may be a small percentage of very poorly defined feldspars</p> <p>65.00 - 65.08m Fault, gouge and strongly sheared</p> <p>70.30 - 70.45m Strongly sheared</p> | | Well developed sericite on foliation surfaces | Trace disseminated, patchy fine to medium grained pyrite, rare trace chalcopyrite, minor stringers | Blitzed |
| 70.45 TO 76.61 | Quartz Porphyry Intermed. Lithic Tuff «I LITH TUF» | <p>Colour: Light grey green Grain Size: Medium grained</p> <p>Moderate to thick bedded Weak to moderately foliated</p> | | Locally bleached, moderate to well developed sericite and chlorite on foliation planes | <1% disseminated fine grained pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|----------------|--|---|--------------|---|---------------------------|---------|
| | F» | <1% quartz eyes to 3mm, locally to 8mm Rare felsic fragments to 1.5cm Locally 1-2% light green lithic fragments, generally smeared along foliation planes, larger bleached patches to 2cm may represent larger fragments CAF at 71.44m 73.84 - 74.04m Fault, abundant gouge 75.37 - 75.60m Possible interbed of felsic ash, altered to sericite schist | 52 | | | |
| 76.61 TO 80.32 | Andesite Lithic to Lapilli Tuff «AND LAP TUFF» | Colour: Light to medium green Grain Size: Medium to coarse grained Thick bedded, moderately foliated 1-2% light green weakly epidote altered lithic fragments to 3cm 2% quartz granules to 105mm Possible 1-2% feldspars obscured by the alteration 80.30 - 80.32m Fault | 90 | Well developed chlorite on foliation surfaces Weak pervasive epidote alteration | Trace disseminated pyrite | |
| 80.32 TO 93.50 | Felsic Lapilli Tuff to Breccia «F LAP TUFF , T BX» | Colour: White, light green cast Grain Size: Coarse grained Thick bedded, massive, weakly foliated Possible 50-60% felsic fragments bleached white and very siliceous Textures totally obscured Locally feldspars are visible and minor quartz eyes Boundaries of fragments are locally diffuse, generally they may not exceed 6cm Groundmass has a light green cast and contains 3-5% quartz eyes to 4mm 3-5% white to ghostly to clay altered feldspars to 1mm, these are generally highly obscured 89.55 - 89.56m Fault 90.00 - 90.33m Fault, gouge | 65 20 | Moderate to well developed sericite and minor chlorite on foliation surfaces Entire interval has been silicified Felsic fragments are bleached and intensely silicified | Trace disseminated pyrite | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|--|--|------------------|---|---|-------------------|
| 93.50 TO 96.00 | Andesite Lithic Tuff «AND TUFF» | Colour: Medium to dark green Grain Size: Fine to medium grained Moderately bedded, moderately foliated Very equigranular Epidotized lapilli fragment to 4cm at 93.67m 93.78 - 93.80m Fault 94.68 - 94.78m Strongly sheared 95.26 - 95.34m Fault | 75 90 | Well developed chlorite on foliation surfaces | 3% disseminated, patchy, minor stringers of medium grained pyrite | Strongly altered |
| 96.00 TO 99.30 | Intermed. Lithic Tuff «I LITH TUF F» | Colour: Medium grey green Grain Size: Fine to medium grained Moderately bedded, moderately foliated Very equigranular in appearance 3-5% felsic grains to 2mm 99.22 - 99.30m Fault, strongly sheared | 84 | Moderately developed chlorite and sericite on foliation surfaces Weak to moderately calcareous | 5-7% disseminated, patchy and minor stringers of fine to medium grained pyrite | Altered Andesite? |
| 99.30 TO 113.32 | Felsic Tuff to Lapilli Tuff «F TUFF, LAP TUFF» | Colour: White to light grey Grain Size: Medium to coarse grained Thick bedded, massive, weakly foliated May contain 5-10% felsic fragments, bleached white and silicified from 2mm to 3cm, these are generally obscure Groundmass fine grained, may contain 2-3% feldspar to 0.5mm, very obscure Locally 2-3% quartz eyes <1mm to 4mm | | Moderate to well developed sericite on foliation surfaces Bleached, silicified mottled look | 1% disseminated patchy and stringers, fine to medium grained pyrite Pyritic patches and stringers generally carry minor chalcopyrite | |
| 113.32 TO 119.25 | Andesite Crystal Lithic Tuff «AND TUFF» | Colour: Light to medium green Grain Size: Medium grained Thick, massive, weakly foliated 3-locally 5% ghosty to epidote altered feldspar crystals to 1mm Possible 2-3% dark green mafic crystals to 1mm Very equigranular appearance to interval Sharp upper and lower contact | | Weakly developed chlorite on foliation surfaces Weak pervasive epidote alteration | Trace pyrite | Possible Diorite |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|----------------------------|---|--|---|---|---|
| | | Contact at 113.32m 119.25m | 90 50 | | | |
| 119.25 TO 142.75 | Felsic Tuff «F TUFF» | Colour: Very light grey Grain Size: Fine to medium grained Thick bedded, moderately foliated Very equigranular in appearance May contain 1-2% obscure feldspars to 0.5mm 3% lithic material to 0.5mm Rare quartz eyes to 1mm 119.25 - 120.72m 5% indistinct fragments to 3cm 121.43m CAF 122.15 - 122.25m Fault, abundant gouge 129.90 - 130.20m Fault, abundant shear and gouge 133.00 - 133.02m Fault, gouge 134.03 - 134.07m Fault, gouge 134.57 - 134.63m Fault, gouge 137.00 - 137.02m Fault, gouge 138.02 - 138.31m Fault, gouge 138.60 - 138.63m Fault, gouge 139.38 - 138.47m Fault, gouge 139.84 - 139.94m Fault, gouge 140.30 - 140.31m Fault, gouge 142.29 - 142.30m Fault, gouge 142.62 - 142.63m Fault, gouge | 66 20 88 75 75 70 85 70 88 68 60 90 85 | Well developed sericite on foliation planes | 1% disseminated, patchy and minor stringers of fine to medium grained pyrite 130.60 - 137.60m 2% pyrite stringers, minor chalcopyrite with the stringers | |
| 142.75 TO 159.80 | Intermed. Tuff «I TUFF» | Colour: Medium grey, weak green cast Grain Size: Fine to medium grained Thick bedded, moderately foliated Very equigranular in appearance Possibly 1-2% feldspars to 0.5mm Rare quartz eyes to 1mm 142.81 - 142.90m Fault, gouge 142.95 - 142.98m Fault, gouge 143.45 - 143.48m Fault, gouge 145.10 - 145.44m Fault, gouge and | 85 40 80 50 85 | Weakly developed sericite on foliation planes Minor chlorite | 1-2% medium grained pyrite predominately in stringers Local trace chalcopyrite with the stringers | Possibly an unaltered version of the above unit |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|-----------------------|---|--|---|--|---------|
| | | 145.50 - 145.40m 2-3% angular felsic fragments to 8mm CAF at 145.66 147.08 - 147.11m Fault, C-S Fabric, uphole down CAF at 150.52m 154.12 - 154.16m Fault | 50 70 57 50 | | 152.39 - 152.44m Chalcopyrite stringer | |
| 159.80 TO 175.27 | Intermed. Ash «I ASH» | Colour: Light grey, weak green cast Grain Size: Fine grained Thinly bedded, moderately foliated Local interbeds of lithic tuff CAB at 162.00m 163.40 - 163.20m Felsic Lithic to Lapilli Tuff 163.48m CAB 163.84m CAB 164.00 - 164.39m Felsic lithic to lapilli tuff 164.45m CAB 165.59m CAB 165.05 - 166.00m Dyke, Felsic 172.97m CAB | 75 70 80 80 76 50 | Moderately developed sericite on foliation surfaces, minor chlorite | 2 to locally 5% disseminated laminated fine grained pyrite | |
| 175.27 TO 181.45 | «DIORITE» | Colour: Medium to dark green Grain Size: Medium grained Thick, massive, weakly foliated Feldspar porphyritic Equigranular | | | | |

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------------|---|--|------------------------------------|---|--|---------|
| 181.45 TO 191.80 | Andesite Lithic Tuff «AND TUFF» | <p>Colour: Light to medium green Grain Size: Medium grained</p> <p>Moderately bedded, moderately foliated Interbedded sequence of predominately fine to medium grained lithic tuffs with more medium to coarser grained lithic crystal lithic tuffs Lithic tuffs contain 3-5% quartz granuales to 1mm</p> <p>181.45 - 183.45m Intermixed sequence of felsic tuffs and andesite</p> <p>185.48 - 185.77m Andesite lithic to lapilli tuff 5% light green epidote altered lithic fragments to 1cm</p> <p>187.03 - 187.20m Andesite lithic tuff 5-10% light green epidote altered lithic fragments to 5mm</p> <p>187.20 - 187.21m Fault</p> <p>189.60 - 191.10m Intermediate Lithic Tuff</p> <p>189.90 - 190.00m Fault 191.30 - 191.50m Fault</p> | 45 70 15 | <p>Weak to moderate developed chlorite on foliation planes Local weak pervasive epidote alteration</p> | <p>2-3% pyrite, minor chalcopyrite predominately in stringers and disseminated</p> <p>3-5% pyrite, predominately stringers, possible trace sphalerite</p> <p>5% pyrite, minor chalcopyrite, patchy, stringers, and disseminated</p> | |
| 191.80 TO 250.54 | Andesite Crystal Lithic Tuff «AND XL LITH TUFF» | <p>Colour: Light to medium green Grain Size: Medium grained</p> <p>Thick bedded, weak to moderately foliated 2-3% ghosty to epidote altered feldspar crystals to 1mm 5-7% light green epidote altered lithic fragments to 5mm 5% felsic granuales to 1mm</p> <p>200.42m CAF 211.90m CAF</p> <p>213.70 - 220.55m Andesite Lithic Tuff</p> | 45 45 | <p>Weak to moderately developed chlorite on foliation surfaces Weak pervasive epidote alteration</p> <p>195.10 - 195.60m Intense epidote alteration</p> | <p>3-5% pyrite with minor chalcopyrite, predominately in stringers and patches also disseminated</p> <p>195.10 - 195.60m 10-15% pyrite, minor chalcopyrite</p> <p>199.60 - 200.00m 50% medium to coarse pyrite</p> <p>3% pyrite, predominately patches and</p> | |

HOLE NUMBER: 89-269

MINNOVA INC.
DRILL HOLE RECORD

DATE: 15-December-1989

| FROM TO | ROCK TYPE | TEXTURE AND STRUCTURE | ANGLE TO CA | ALTERATION | MINERALIZATION | REMARKS |
|------------|--------------|--|----------------|---|---|---------|
| | | 232.00 - 232.40m 80% quartz vein | | | stringers, minor chalcopyrite 220.55 - 231.10m 1-2% pyrite, predominately patches and stringers, trace chalcopyrite 231.10 - 231.30m 3% pyrite, 3% chalcopyrite stringer 231.3 - 250.60m 1-2% pyrite, trace chalcopyrite, predominately stringers 232.00 - 232.40m 3% coarse grained pyrite, 1% chalcopyrite | |
| | E.O.H. | 247.55 - 248.50m 5% lapilli fragments to 7cm | | 232.40 - 234.80m Intensely altered, strongly silicified, intense epidote alteration 241.33 - 242.90m Bleached, silicified, intense epidote alteration | | |

HOLE NUMBER: 89-269

DRILL HOLE RECORD

LOGGED BY: John Kapusta

PAGE: 8

HOLE NUMBER: 89-269

ASSAY SHEET

DATE: 15-December-1989

| Sample | From (m) | To (m) | Length (m) | ESTIMA GCu ppm | ASSAYS | | | | | GEOCHEMICAL | | | | | SUL % | COMMENTS | | | | | | | | |
|--------|----------|--------|------------|----------------------|------------|------------|------------|------------|------------|-------------|---------|---------|-------------|-----------|----------|----------|-------------|-----------|----------|------------|--|--|--|--|
| | | | | | GPb ppm | GZn ppm | GAg ppm | GAu ppb | GBa ppm | Cu % | Pb % | Zn % | IAG oz/t | Ag g/t | | | IAu oz/t | Au g/t | SG SG | NSR NSR | | | | |
| 13559 | 97.87 | 99.30 | 1.43 | | | | | | | | | | | | | | | | | | | | | |
| 13560 | 101.55 | 102.88 | 1.33 | | | | | | | | | | | | | | | | | | | | | |
| 13561 | 159.80 | 161.40 | 1.60 | | | | | | | | | | | | | | | | | | | | | |
| 13562 | 161.40 | 163.20 | 1.80 | | | | | | | | | | | | | | | | | | | | | |
| 13563 | 163.20 | 164.69 | 1.49 | | | | | | | | | | | | | | | | | | | | | |
| 13564 | 164.69 | 166.04 | 1.35 | | | | | | | | | | | | | | | | | | | | | |
| 13565 | 166.04 | 167.21 | 1.17 | | | | | | | | | | | | | | | | | | | | | |
| 13566 | 167.21 | 168.68 | 1.47 | | | | | | | | | | | | | | | | | | | | | |
| 13567 | 168.68 | 169.97 | 1.29 | | | | | | | | | | | | | | | | | | | | | |
| 13568 | 169.97 | 171.20 | 1.23 | | | | | | | | | | | | | | | | | | | | | |
| 13569 | 171.20 | 172.56 | 1.36 | | | | | | | | | | | | | | | | | | | | | |
| 13570 | 172.56 | 173.28 | 0.72 | | | | | | | | | | | | | | | | | | | | | |
| 13571 | 173.28 | 175.27 | 1.99 | | | | | | | | | | | | | | | | | | | | | |
| 13572 | 181.45 | 182.18 | 0.73 | | | | | | | | | | | | | | | | | | | | | |
| 13573 | 182.18 | 183.45 | 1.27 | | | | | | | | | | | | | | | | | | | | | |
| 13574 | 183.45 | 185.17 | 1.72 | | | | | | | | | | | | | | | | | | | | | |
| 13575 | 189.60 | 191.10 | 1.50 | | | | | | | | | | | | | | | | | | | | | |
| 13576 | 195.10 | 195.60 | 0.50 | | | | | | | | | | | | | | | | | | | | | |
| 13577 | 199.36 | 200.52 | 1.16 | | | | | | | | | | | | | | | | | | | | | |
| 13578 | 200.52 | 201.97 | 1.45 | | | | | | | | | | | | | | | | | | | | | |
| 13579 | 207.40 | 209.08 | 1.68 | | | | | | | | | | | | | | | | | | | | | |

HOLE NUMBER: 89-269

ASSAY SHEET

| Sample | From (m) | To (m) | Length (m) | Al2O3 % | Ba % | CaO % | Fe2O3 % | K2O % | MgO % | MnO2 % | Na2O % | P2O5 % | SiO2 % | Sr % | TiO2 % | Zr % | S % | Tot % | Ag ppm | As ppm | Ba-ppm ppm | Cu ppm | Pb ppm | Sb ppm | Zn ppm | Au ppb |
|--------|-------------|-----------|---------------|------------|---------|----------|------------|----------|----------|-----------|-----------|-----------|-----------|---------|-----------|---------|--------|----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|-----------|
| 17181 | 62.79 | 65.79 | 3.00 | 12.69 | 0.11 | 2.13 | 0.87 | 2.75 | 0.39 | 0.01 | 2.5 | 0.12 | 74.23 | | 0.2 | | 0.26 | 96.28 | 0.7 | 4 | 78 | 54 | 12 | 1 | 66 | 10 |
| 17182 | 88.70 | 91.70 | 3.00 | 14.63 | 0.08 | 1.13 | 0.96 | 2.05 | 3.11 | 0.03 | 4.5 | 0.12 | 70.12 | | 0.22 | | 0.08 | 97.03 | 0.8 | 1 | 97 | 6 | 28 | 1 | 24 | 5 |
| 17183 | 116.25 | 119.25 | 3.00 | 15.75 | 0.005 | 10.94 | 11.5 | 1.3 | 9.6 | 0.24 | 0.38 | 0.42 | 42.67 | | 1.47 | | 0.76 | 95.03 | 3.4 | 1 | 6 | 184 | 56 | 1 | 92 | 5 |
| 17184 | 132.70 | 135.70 | 3.00 | 13.61 | 0.115 | 0.42 | 5.14 | 3.25 | 3.85 | 0.09 | 0.5 | 0.12 | 67.2 | | 0.32 | | 2.85 | 97.47 | 0.8 | 8 | 95 | 27 | 32 | 1 | 95 | 15 |
| 17185 | 154.50 | 157.50 | 3.00 | 15.06 | 0.085 | 0.57 | 6.17 | 2.35 | 7.09 | 0.17 | 2.01 | 0.17 | 59.82 | | 0.42 | | 2.25 | 96.17 | 1 | 1 | 94 | 31 | 61 | 2 | 114 | 10 |
| 17186 | 187.20 | 189.60 | 2.40 | 16.68 | 0.125 | 1.17 | 9.94 | 2.49 | 8.45 | 0.25 | 1.45 | 0.22 | 51.54 | | 0.61 | | 2.9 | 95.83 | 1.1 | 1 | 164 | 186 | 55 | 1 | 130 | 5 |
| 17187 | 209.40 | 212.40 | 3.00 | 17.06 | 0.02 | 2.61 | 8.61 | 1.57 | 6.81 | 0.23 | 3.7 | 0.23 | 53.1 | | 0.62 | | 1.82 | 96.38 | 1.2 | 1 | 32 | 126 | 53 | 1 | 123 | 5 |
| 17188 | 242.90 | 245.90 | 3.00 | 16.82 | 0.04 | 2.29 | 8.36 | 1.74 | 6.34 | 0.17 | 3.72 | 0.21 | 54.2 | | 0.6 | | 1.57 | 96.05 | 1.7 | 1 | 52 | 69 | 52 | 1 | 75 | 10 |