



| DEPTH |       | ROCK DESCRIPTION   | MINERALISATION   | CORE REC'D |       |
|-------|-------|--|--|------------|-------|
| From  | To    |  |  | Run        | Short |
| 144.5 | 181.0 | <p><b>Shale-Rhyolite Breccia</b><br/>Silicified, quartz-veined, sericitised feldspar-bearing rhyolite matrix, variably brecciated with two types - yellow/green, banded sericitic tuff/lava with partially absorbed siliceous crystals/fragments (=chilled phase of lava?), and banding breccia of packed siliceous (?porphyry) fragments in silicified slaty matrix.</p> <p>150.4-151.4 Siliceous, QFP, pumice-like sericite, shale-siltstone and few sandstone fragments in siliceous matrix. One black slate fragment (5cm) with ?fuchsite rim.</p> <p>At 151.4 Breccia/conglomerate seen to thin into crevice in rhyolite, surrounded by ?chilled sericitic phase 151.4-151.7</p> <p>151.7-154.8 Rounded to angular siliceous (?autolithic) and minor siltstone, flammate sericitic/felsic (?chilled), fragments in siliceous ?rhyolite matrix.</p> <p>154.8-157.8 Green-yellow, banded, pumice-like welded tuff or chilled lava?, few felsic and rhyolitic fragments in places. Quartz veins.</p> <p>157.8-158.7 Breccia of coarse siliceous and shale-siltstone fragments in siliceous matrix</p> <p>158.7-162.0 Tuffaceous appearance-various siliceous, felsic and pumice-like fragments in banded sericitic/felsic matrix. Few quartz veins. May be chilled lava variant</p> <p>162.0-165.8 Breccia of coarse QP, siliceous, sericitic, shale-siltstone fragments in siliceous matrix. Matrix shaley and pyritic towards end. Silicified and quartz-veined.</p> <p>165.8-167.6 Mainly rhyolite lava/intrusive</p> <p>At 165.8 10cm sericitic ?chilled phase</p> <p>165.8-166.2 Brecciated, silicified rhyolite, minor shale in fractures/matrix</p> <p>166.2-167.6 Rhyolite with few quartz crystals in silicified, quartz veined matrix.</p> <p>167.6-181.0 Brecciated, silicified rhyolite, sparse breccia framework of shale-siltstone filled fractures and bands. Banded, sericitic rhyolite phase often adjacent to thicker shale bands.</p> <p>180-180.2 Strong breccia-siliceous frags in pyritic, banded sericite matrix.</p> <p>At 181.0 Small shear zone.</p> | <p>Intepretation of relationships:<br/>Rhyolite erupted subaqueously; fractures, figures formed and filled with sparse to abundant shale and altered rhyolite lithics, dependent on size of fracture</p> <p>151.7-154.8 Minor py as diss and fracture-lining.</p> <p>165.2-165.8 Py 5% in matrix</p> <p>At 166.4 Trace gn in veinlet</p> <p>At 167.9 Minor py</p> <p>179.5-179.7 5% py in breccia matrix</p> <p>180-180.2 Breccia with 10% mg py</p> <p>180.2-181.0 Silicified, fractured, with minor py 2%</p> <p>181-184.6 Pyrite fracture/veinwork (2-3%) several pyritic shear zones at 182.0</p> <p>184.6-186.6 Minor py in carbonate vein-breccia</p> <p>186.6-187.0 10% py in breccia</p> <p>187-189.6 Local py 1-2%, minor sp-cb veinlets esp 188.7-189.0</p> <p>190.7-191.2 Minor py in fractures, shears</p> <p>191.2-213.7 Often 1-2% py in shaley breccia matrix<br/>Shale 194-194.5 with 10% py</p> <p>214.0-214.3 0.5-1cm sp-gn veins (anastomosing)</p> |            |       |
| 181.0 | 190.7 | <p><b>Brecciated, Silicified Rhyolite</b><br/>Pale grey, brecciated, silicified rhyolite; no shale-breccia</p> <p>189.6-190.7 Sheared, brecciated fuchsite altered contact; remnant siliceous rhyolite fragments in fuchsite and carbonate matrix. Few mashed shaley-breccia bands</p>   |  |            |       |
| 190.7 | 213.7 | <p><b>Shale-Rhyolite Breccia</b><br/>190.7-191.2 Strongly carbonate veined/brecciated silicified rhyolite. Several thin shears.</p> <p>191.2-213.7 Complex breccia of rhyolite mixed with banded, sericitic phase itself with siliceous rhyolite fragments, and variably brecciated by shale-bred fractures, bands. Some bands tending to conglomerate of siliceous fragments in shale matrix (e.g. 204.4) Pyritic shale band 194-194.5m</p> <p>At 213.7 1cm strong shear at contact.</p>  |  |            |       |
| 213.7 | 215.0 | <p><b>Fault Breccia</b><br/>Breccia of dolomite and shale fragments, in recrystallised/veined carbonate matrix. Becomes fuchsitic towards end.</p>   |  |            |       |

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|--------|--------|--|---|------------|-------|
| From   | To     |  |   | Run        | Short |
| 215.0  | 226.5  | <p><b>Sedimentary Breccia</b><br/>Various angular to rounded, fine to coarse fragments (usually siliceous, rhyolite) in shale-siltstone matrix. Strongly quartz veined, carbonate veined.</p> <p>215-215.7 Smearred, disrupted pyritic black slate<br/>215.7-215.8 Conglomerate, of dolomitelithics smearred in sparse shaley matrix.<br/>215.8-216.1 Felsic tuff or lava (fragment?) carbonate veined and altered<br/>216.1-216.2 Siliceous lithics in dolomitic matrix<br/>216.2-216.6 Shale-siltstone disrupted by carbonate veining<br/>216.6-217.3 Sandstone<br/>217.3-223.5 Conglomerate/breccia, of various lithics usually siliceous, feldspar-porphry, shale-siltstone, in shale-siltstone or lithic wacke (with mg frags as above) matrix. Large rhyolite ?fragment 218.5-218.8<br/>223.5-224.8 Packed, f-cg (5cm+) scalloped lithics in sparse shale matrix.<br/>224.8-226.5 packed m-cg (1cm) lithics-siliceous rhyolite, almost no matrix.<br/>At 226.5 Sharp contact</p> | <p>215-215.7 5% fg py</p> <p>217.3-223.5 Dis fg py 1%</p>   |            |       |
| 226.5  | 233.1  | <p><b>Rhyolite</b><br/>233.1-233.8 Initially abundant cg rhyolite and siliceous fragments, and f-mg angular similar lithics, in shale matrix.<br/>233.8-239.0 Interbedded shale-siltstone with bands of lithic wacke with f-mg siliceous lithics. Strongly quartz veined<br/>239.-241.8 Reverts to breccia of abundant coarse angular to scalloped siliceous, rhyolite, porphyry, altered tuff/lava (carbonatised, sericitised) few shale fragments, in shaley matrix with fine to m.g. fragments of smae<br/>241.8-243.0 Becomes strongly cleaved, boundinaged, with smearred and broken, altered fragments.</p>  | <p>233.8-239.0 Diss v. fg py 1-2%</p>   |            |       |
| 243.0  | 250.7  | <p><b>Fuchsite and Rhyolite</b><br/>243-243.05 Breccia of quartz with fine carbonate veinwork as matrix.<br/>243.05-243.45 Siliceous breccia<br/>243.45-245.2 Breccia of fuchsite and silicified felsic ?rhyolite<br/>245.2-247.5 Sheared, weakly sericitised rhyolite with open carbonate veinwork. Sheared conglomerate and slate band at 246.6-246.7<br/>247.5-250.7 Alternating bands of massive fuchsite with either breccia of fuchsite fragments in sheared altered, carbonate-veined ?rhyolite. At 250.7 cleaved contact</p>   | <p>243.05-243.45 Sparse, open network of sp? veinlets and fractures 1% sp.<br/>243.45-243.6 Dis py 5%<br/>245.2-247.5 Dis py 1-2%</p> |            |       |
| 250.7  | 255.25 | <p><b>Conglomerate and Sandstone</b><br/>250.7-252.6 Conglomerated of abundant, packed coarse rounded to angular various lithics - sandstone, shale, siltstone, siliceous, rhyolite.<br/>252.6-253.0 Breccia mainly of autolithie sandstone, and some siliceous fragments in anastomosing sericite breccia matrix.<br/>253.0-254.4 Coarse sandstone of quartz and minor shale grains<br/>At 254.4 Sheared contact<br/>254.4-254.5 Breccia of siliceous fragments in fuchsite-carbonate matrix, minor py<br/>254.5-254.7 Conglomerate, as above<br/>254.7-255.25 Brecciated conglomerate, coarse breccia of sandstone and rhyolite bands or fragments, then various lithics in fuchsite-carbonate matrix. Strongly quartz and carbonate-veined.</p>   |   |            |       |
| 255.25 | 260.3  | <p><b>Fuchsite and Rhyolite Lithic Tuff</b><br/>255.25-256.4 Lithic tuff initially of cg; then f-mg shale, felsic and siliceous clasts and grains in tuffaceous felsic matrix.<br/>256.4-256.7 Fuchsite-carbonate breccia, minor pyrite<br/>256.7-259.0 Fuchsite-carbonate breccia; disrupted siltstone lithics at 257.0.</p>  | <p>256.9-259.0 Irregular bands &amp; dis py to 5%</p>   |            |       |

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| From  | To    |   |   | Run        | Short |
|       |       | Sheared contact at 259.0<br>259.0-260.3 Felsic lithic tuff; initially cg then f-mg shale, siltstone, felsic rare py lithics; occasional sericitised feldspar, in felsic matrix  |   |            |       |
| 260.3 | 267.2 | <b>Fuchsite-Carbonate Breccia</b><br>Breccia of massive fuchsite and carbonate veins and patches, and bands of strongly altered (silicified) brecciated rock.<br>Odd 'graphic' texture in fuchsite 265.5-265.8<br>At 267.2 Sharp, but irregular contact   | 260.3-267.2 Irregular bands and dis py; variable 1-5%   |            |       |
| 267.2 | 286.3 | <b>Shale-Black Slate</b><br>Mainly shale-slate with dolomitic bands<br>267.2-269.5 Strong breccia of variable shale siltstone fragments in dolomitic matrix. Minor laminated shale-siltstone. Secondary breccia of carbonate veins.<br>269.5-269.7 Black slate, intensely carbonate veined.<br>269.97-269.9 Massive fuchsite, irregular contacts<br>269.9-273.7 Shale to black slate, intensely carbonate veined network; locally strongly pyritic<br>273.7-274.5 Breccia of sediment fragments in dolomitic matrix; carbonate veined<br>274.5-286.3 Shale and black slate, intensely carbonate veined to breccia network. Numerous pyritic bands<br>282.0-282.7 Semi-massive fg pyrite | 269.9-273.7 Py-rich bands ( 5% py) at 270.6, 273, 273.5-273.7<br><br>274.5-286.3 fg py bnds 10% including; 282-282.7 Fg py 20%, with vein(?) of pods of coarse carbonate and sphalerite, in fine galena-pyrite matrix. Recrystallised carbonate at contacts; 282.4-282.5. |            |       |
| 286.3 | 291.5 | <b>Dolomite</b><br>286.3-288.2 Cream to grey, massive dolomite and dolomitic breccia of dolomite, carbonate and siliceous fragments in dolomitic matrix<br>288.2-290.35 Dolomitic breccia/conglomerate. Various fine to coarse, rounded to angular fragments (dolomite, dolomitic wacke, shale, sandstone) in dolomitic matrix<br>290.35-291.5 Laminated shale to dolomite and dolomitic siltstone; few wacke bands   |   |            |       |
| 291.5 | 315.1 | <b>?Diagenetic Carbonate in Slate</b><br>Abundant carbonate as acicular crystals, irregular masses intergrown in shale/slate, fine banded veinworks to stockwork, in a shale/slate matrix. Crystals of dolomite? or siderite. Sparse secondary calcite veining. Diagenetic or ?evaporite origin.<br>291.5-292.5 Black slate with disrupted sandstone beds, intensely carbonate veined.<br>292.5-293.2 Black slate, carbonate veined<br>At 315.1 carbonate veins at contact  |   |            |       |
| 315.1 | 332.4 | <b>Dolomite</b><br>Massive, grey, dolomitic wacke, with shale-siltstone and cream dolomitic bands; often disrupted to brecciated.<br>330.6-332.8 Several shale beds, with irregular patches dolomite.   |   |            |       |
| 332.4 | 344.5 | <b>Interbedded Shale - Dolomitic Siltstone</b><br>Locally disrupted shale-siltstone, with dolomitic siltstone beds, minor dolomitic wacke. Minor carbonate veins.   |   |            |       |
| 344.5 | 382.8 | <b>Shale-Siltstone</b><br>Mainly black slate, minor siltstone and dolomitic wacke to sandstone or greywacke. Strongly carbonate veined throughout.<br>353-354.2 Greywacke veined contacts.<br>354.5-355.2 Greywacke, veined contacts  | 345.7-347.0 Laminated fg py 10%   |            |       |

**DIAMOND DRILL CORE RECORD**

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|-------|-------|---|---|------------|-------|
| From  | To    |   |   | Run        | Short |
|       |       | 362.8-366.1 Pyritic siltstone<br>366.1-368.6 Weakly brecciated black slate<br>368.6-376.6 Weakly brecciated siltstone<br>376.6-382.8 Strongly brecciated siltstone, now jigsaw of siltstone fragments with black slate veinwork matrix. | 362.8-366.1 Fg py 10%<br>366.1-368.6 Variable py 1-5%<br>368.6-376.6 Fg py 5% |            |       |
| 383.8 | 397.8 | <b>Dolomite</b><br>Cream massive dolomite and dolomitic wacke, minor shale-siltstone bands. Bedded in places but usually disrupted.   |   |            |       |
| 397.8 | 415.5 | <b>Brecciated Shale-Siltstone</b><br>Strongly brecciated shale-siltstone, with dolomitic and greywacke bands. Locally strongly carbonate veined.<br>409.2-411.7 Dolomitic wacke   |   |            |       |
|       | 415.5 | <b>END OF HOLE</b>  |   |            |       |

DIAMOND DRILL CORE GEOCHEMICAL ANALYSES RECORD

| LABORATORY                          |             |       |       |            |               | ANALABS                              |      |     |        |        |     |     |     |     |  | GRID CO-ORDS: |                         |  |   |
|-------------------------------------|-------------|-------|-------|------------|---------------|--------------------------------------|------|-----|--------|--------|-----|-----|-----|-----|--|---------------|-------------------------|--|---|
| ANALYTICAL TECHNIQUE                |             |       |       |            |               | 101                                  | 101  | 101 | 101    | 309    | 114 | 120 | 402 | 401 |  |               |                         |  | A.M.G. CO-ORDS <u>Approx 5 364 110N</u> |
| DETECTION LIMIT                     |             |       |       |            |               | 5                                    | 5    | 5   | 0.5    | 0.008  | 1   | 5   | 3   | 10  |  |               |                         |  | COLLAR R.L.: <u>374 655E</u>            |
| Sample No.                          | Sample Type | From  | To    | Core Rec'd | Sample Length | METAL CONTENT (ppm unless specified) |      |     |        |        |     |     |     |     |  | COMMENTS      |                         |  |   |
|                                     |             |       |       |            |               | Pb                                   | Zn   | Cu  | Ag g/t | Au g/t | As  | Ba  | Sn  | W   |  |               |                         |  |   |
| <b>MINES DEPARTMENT SAMPLE NO'S</b> |             |       |       |            |               |                                      |      |     |        |        |     |     |     |     |  |               |                         |  |   |
| 100901                              |             | 135.0 | 140.0 |            | 5.0           | 35                                   | 60   | 5   | 0.5    | X      | 9   | 100 | 10  | X   |  |               | X = less than Detection |  |   |
| 902                                 |             | 140.0 | 145.0 |            | 5.0           | 1500                                 | 1250 | 20  | 2.5    | X      | 1   | 105 | 6   | X   |  |               |                         |  |   |
| 903                                 |             | 145.0 | 150.0 |            | 5.0           | 30                                   | 110  | 10  | 0.5    | X      | 4   | 115 | X   | X   |  |               |                         |  |   |
| 904                                 |             | 150.0 | 155.0 |            | 5.0           | 10                                   | 20   | 10  | 0.5    | X      | 6   | 155 | X   | X   |  |               |                         |  |   |
| 905                                 |             | 155.0 | 160.0 |            | 5.0           | 20                                   | 45   | 10  | X      | X      | 7   | 195 | X   | X   |  |               |                         |  |   |
| 906                                 |             | 160.0 | 165.0 |            | 5.0           | 15                                   | 20   | 5   | X      | X      | 5   | 115 | 3   | X   |  |               |                         |  |   |
| 907                                 |             | 165.0 | 170.0 |            | 5.0           | 150                                  | 135  | 5   | X      | X      | 7   | 95  | 3   | 20  |  |               |                         |  |   |
| 908                                 |             | 170.0 | 175.0 |            | 5.0           | 15                                   | 30   | 10  | X      | X      | 6   | 85  | 6   | X   |  |               |                         |  |   |
| 909                                 |             | 175.0 | 180.0 |            | 5.0           | 20                                   | 30   | 25  | 1.0    | X      | 20  | 105 | 3   | X   |  |               |                         |  |   |
| 100910                              |             | 180.0 | 185.0 |            | 5.0           | 1000                                 | 4850 | 205 | 2.5    | X      | 49  | 80  | 3   | X   |  |               |                         |  |   |
| 911                                 |             | 185.0 | 190.0 |            | 5.0           | 440                                  | 2450 | 5   | 0.5    | X      | 52  | 70  | 4   | X   |  |               |                         |  |   |
| 912                                 |             | 190.0 | 195.0 |            | 5.0           | 160                                  | 265  | 130 | 1.5    | X      | 170 | 120 | 15  | X   |  |               |                         |  |   |
| 913                                 |             | 195.0 | 200.0 |            | 5.0           | 580                                  | 335  | 25  | 1.0    | X      | 10  | 125 | 10  | X   |  |               |                         |  |   |
| 914                                 |             | 200.0 | 205.0 |            | 5.0           | 90                                   | 295  | 65  | 0.5    | X      | 5   | 85  | X   | X   |  |               |                         |  |   |
| 915                                 |             | 205.0 | 210.0 |            | 5.0           | 100                                  | 90   | 135 | 2.0    | X      | 13  | 170 | 5   | 15  |  |               |                         |  |   |
| 916                                 |             | 210.0 | 215.0 |            | 5.0           | 1950                                 | 4050 | 380 | 4.0    | X      | 34  | 170 | X   | X   |  |               |                         |  |   |
| 917                                 |             | 215.0 | 220.0 |            | 5.0           | 20                                   | 40   | 30  | X      | X      | 17  | 155 | 7   | 20  |  |               |                         |  |   |
| 918                                 |             | 220.0 | 225.0 |            | 5.0           | 55                                   | 90   | 105 | X      | X      | 12  | 170 | 10  | X   |  |               |                         |  |   |
| 919                                 |             | 225.0 | 230.0 |            | 5.0           | 50                                   | 80   | 20  | X      | X      | 8   | 125 | 8   | X   |  |               |                         |  |   |
| 100920                              |             | 230.0 | 235.0 |            | 5.0           | 35                                   | 155  | 10  | X      | X      | 10  | 165 | X   | X   |  |               |                         |  |   |
| 921                                 |             | 235.0 | 240.0 |            | 5.0           | 20                                   | 60   | 15  | 0.5    | X      | 11  | 225 | 6   | X   |  |               |                         |  |   |
| 922                                 |             | 240.0 | 245.0 |            | 5.0           | 55                                   | 160  | 10  | 0.5    | X      | 75  | 180 | 4   | 15  |  |               |                         |  |   |
| 923                                 |             | 245.0 | 250.0 |            | 5.0           | 45                                   | 75   | 5   | X      | X      | 21  | 140 | 9   | X   |  |               |                         |  |   |
| 924                                 |             | 250.0 | 255.0 |            | 5.0           | 2800                                 | 570  | 50  | 8.0    | X      | 56  | 135 | 15  | X   |  |               |                         |  |   |
| 925                                 |             | 255.0 | 260.0 |            | 5.0           | 2400                                 | 2500 | 55  | 6.0    | X      | 280 | 135 | 20  | X   |  |               |                         |  |   |
| 926                                 |             | 260.0 | 265.0 |            | 5.0           | 595                                  | 120  | 70  | 1.5    | X      | 430 | 115 | 5   | X   |  |               |                         |  |   |
| 927                                 |             | 265.0 | 270.0 |            | 5.0           | 30                                   | 85   | 110 | 1.5    | 0.008  | 150 | 135 | 7   | 15  |  |               |                         |  |   |
| 928                                 |             | 270.0 | 275.0 |            | 5.0           | 265                                  | 160  | 135 | 3.5    | 0.008  | 120 | 140 | 15  | X   |  |               |                         |  |   |
| 229                                 |             | 275.0 | 280.0 |            | 5.0           | 60                                   | 80   | 250 | 2.5    | X      | 100 | 125 | 4   | 15  |  |               |                         |  |   |
| 100930                              |             | 280.0 | 285.0 |            | 5.0           | 3550                                 | 1850 | 115 | 14.5   | 0.008  | 210 | 95  | 35  | X   |  |               |                         |  |   |