# DENISON LIMITED - DRILL CORE RECORD

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|---|---|
| HOLE NUMBER | SD 14 |
| PURPOSE | To test for depth extension of mineralisation intersected in SD6 |
| LOCATION | ST. DIZIER |
| COLLAR R.L. | 2204.37 |
| CO ORDINATES | 5367 711.51 N<br>345 273.31 E |
| LENGTH | 387.2 m |
| HOLE SIZE | HW 0 - 3m<br>HQ 3 - 177 m<br>NQ 177 - 387.2m (all coring triple tube) |
| DATE DRILLED | 7.10.80 - 18.11.80 |
| SIGNIFICANT CORE LOSS ZONES | 3.0m loss between 59.2 - 70.2m<br>1.9m loss between 176.8 - 184.8m<br>3.2m loss between 270.2- 278.3m |
| ORE ZONE GROUND CONDITIONS | |
| LOGGED BY | P. ROBERTS |
| COMMENTS | The hole intersected 83.9m of skarn and carbonate between 178.2 and 252.1m including a 16.8m magnetite-rich zone near the hanging wall contact. 5m of moderate Sn grade within the magnetic zone is followed (downward) by 6m. of low Sn grade and ~1% Zn. Soluble Sn content is high throughout this intersection. |

| SURVEY | | | From – To | Distance D | VERTICAL | | HORIZONTAL | |
|---|---|---|---|---|---|---|---|---|
| Depth | Bearing | Dip | | | D.Sin.Dip | R.L. | D.Cos.Dip | Prog. Total |
| (m) | (AMG) | | | | | | | |
| Collar | 157.7° | -56° | 0 - 16.5 | 16.5 | 13.7 | 2190.7 | 9.2 | 9.2 |
| 33 | 164° | -57° | 16.5 - 51 | 34.5 | 28.9 | 2161.8 | 18.8 | 28.0 |
| 69 | 165° | -57° | 51 - 84 | 33 | 27.7 | 2134.1 | 18.0 | 46.0 |
| 99 | 167° | -56.5° | 84 - 115.5 | 31.5 | 27.5 | 2106.6 | 17.4 | 63.4 |
| 132 | 168° | -56.5° | 115.5-144 | 28.5 | 23.8 | 2082.8 | 15.7 | 79.1 |
| 156 | assume 165° (casing) | -53.5° | 144 - 171 | 27 | 21.7 | 2061.1 | 16.1 | 95.2 |
| 186 | assume 162° (mag.) | -52° | 171 - 206 | 35 | 27.6 | 2033.5 | 21.5 | 116.7 |
| 226 | assume 159° (mag.) | -52° | 206 - 244 | 38 | 29.9 | 2003.6 | 23.4 | 140.1 |
| 262 | 156° | -51.5° | 244 - 281 | 37 | 29.0 | 1974.6 | 23.0 | 163.1 |
| 300 | 158.5° | -51° | 281 - 318 | 37 | 28.8 | 1945.8 | 23.3 | 186.4 |
| 336 | 159° | -49° | 318 - 351 | 33 | 24.9 | 1920.9 | 21.7 | 208.1 |
| 366 | 159° | -47.8° | 351-387.2 | 36.2 | 26.8 | 1894.1 | 24.3 | 232.4 |

## SUMMARY – ASSAY DATA

| LODE NAME | FROM | TO | LENGTH (m) | AVERAGE WEIGHTED ASSAYS | | | | | | | | | | | | | B.C.A. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Sn. | Acid Sol. Sn. | Cu. | As. | S. | Pb. | Zn. | Bi. | $WO_3$ | Ag g/t | | | | |
| | | | | | | | | | | | | | | | | | |
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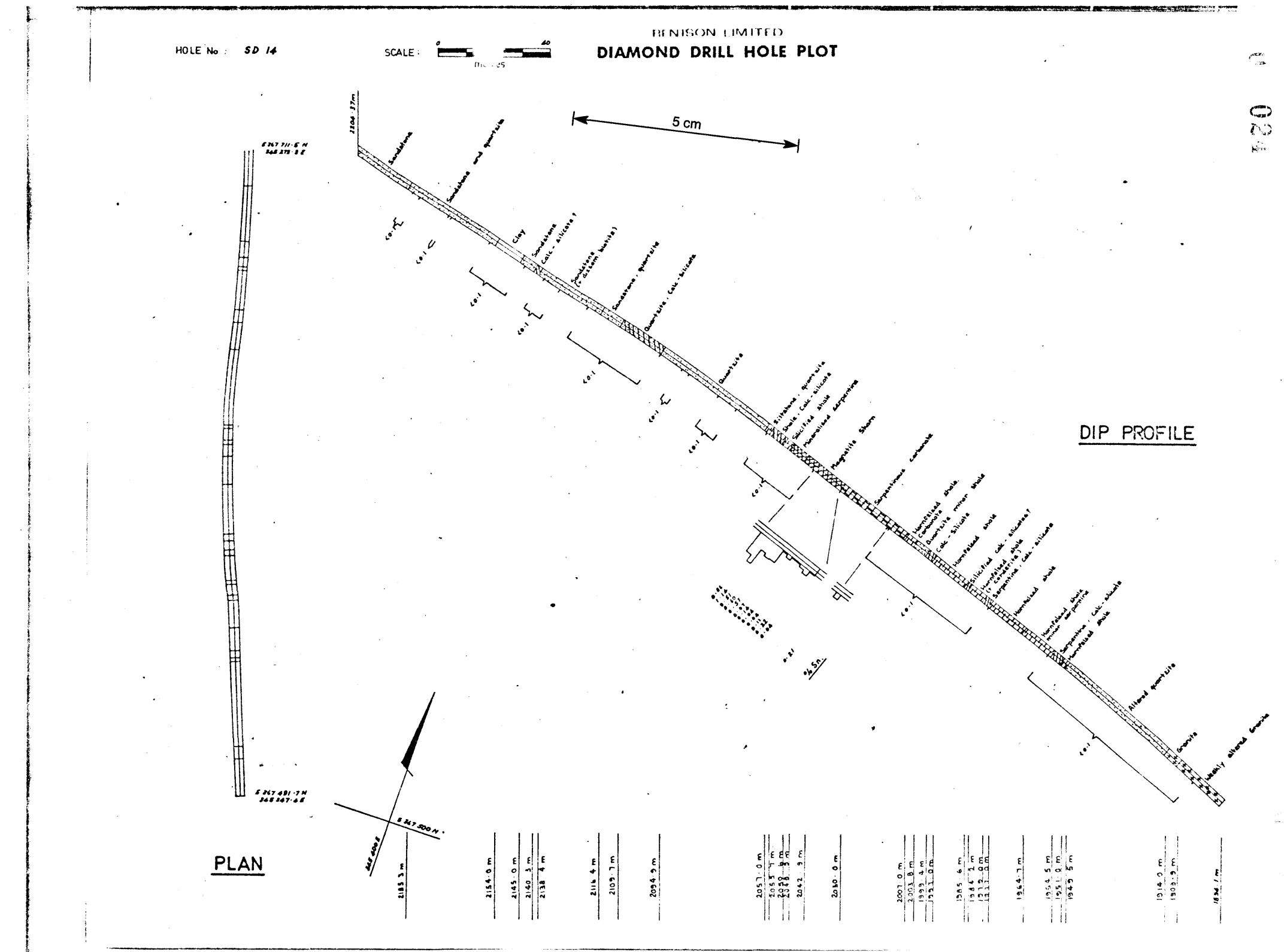
NWPS 27344

BENISON LIMITED

HOLE No : SD 14

SCALE : 0 40 Metres

# DIAMOND DRILL HOLE PLOT



# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

KWPS

| INTERVAL (m) FROM | TO | RECOVERY m | % | DESCRIPTION | FORM. | % Sn. FROM | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0 | 20.4 | 18.8 | 92 | SANDSTONE | | | | | | | | | | | | | |
| | | | | White and pale grey, fine grained, bedded. Micaceous, quartz-rich | | | | | | | | | | | | | |
| | | | | bands alternate with lesser green-grey and brown bands consisting | | | | | | | | | | | | | |
| | | | | of massive chlorite (?) material containing occasional talc grains | | | | | | | | | | | | | |
| | | | | or rounded sandstone (?) grains in a replacive chloritic matrix. | | | | | | | | | | | | | |
| | | | | Intensely contorted with minor development of axial plane cleavage, | | | | | | | | | | | | | |
| | | | | feathery cleavage planes filled with chlorite or mica. Minor | | | | | | | | | | | | | |
| | | | | quartz veining. Frequent breaks along iron-stained or clay-coated | | | | | | | | | | | | | |
| | | | | joint surfaces. | | | | | | | | | | | | | |
| | | | | 11.7 - 14.9 Less contorted, BCA averages 15° to c.a. | | | | | | | | | | | | | |
| | | | | 14.9 - 20.4 More quartz veining cf. above, minor microfaulting. | | | | | | | | | | | | | |
| | | | | Includes soft clay veins at 17.4, 18.4m (VCA 40°). | | | | | | | | | | | | | |
| | | | | Olive green serpentine and grey talc spots 17.4-17.5m. | | | | | | | | | | | | | |
| | | | | Soft clayey and broken 19.6 - 19.8m. BCA averages 35°. | | | | | | | | | | | | | |
| 20.4 | 22.2 | 1.8 | 100 | SANDSTONE | | | | | | | | | | | | | |
| | | | | Buff, fine grained, largely interbedded, friable. Grey talcy | | | | | | | | | | | | | |
| | | | | alteration along interbeds. Very badly broken along clay-covered | | | | | | | | | | | | | |
| | | | | joints. | | | | | | | | | | | | | |
| 22.2 | 28.8 | 6.6 | 100 | SANDSTONE AND QUARTZITE | | | | | | | | | | | | | |
| | | | | Pale grey-brown, laminated. Micaceous (muscovite) sandstone or | | 25.0 | 26.0 | <0.01 | <0.01 | | | | | | 0.003 | <1 | 0.05 |
| | | | | quartzite interbedded with dark brown layers consisting largely | | | 27.0 | 0.01 | <0.01 | | | | | | 0.003 | 1 | 0.05 |
| | | | | of brown, finely acicular tourmaline. Quartz veined, vein | | | 28.0 | <0.01 | <0.01 | | | | | | 0.004 | 2 | 0.05 |
| | | | | thickness varies 0.5 - 10cm, occasionally with minor pyrite. | | | | | | | | | | | | | |
| | | | | Folded, BCA varies 0 - 40°. | | | | | | | | | | | | | |
| 28.8 | 31.0 | 2.2 | 100 | SANDSTONE | | | | | | | | | | | | | |
| | | | | Pale grey-brown, fine grained, weakly laminated. BCA varies 20-45°. | | | | | | | | | | | | | |
| | | | | Broken along bedding planes. | | | | | | | | | | | | | |
| 31.0 | 32.6 | 1.6 | 100 | QUARTZITE | | | | | | | | | | | | | |
| | | | | Grey, bedded. BCA varies 20 - 35°. Partly altered to very soft, | | | | | | | | | | | | | |
| | | | | fine grained yellow material (weathered calc-silicate?). | | | | | | | | | | | | | |
| 32.6 | 48.8 | 16.2 | 100 | QUARTZITE AND SANDSTONE | | | | | | | | | | | | | |
| | | | | Quartzite- pale grey, comprising interbedded quartz-rich, and | | 40.0 | 41.0 | 0.21 | 0.01 | | | | | | 0.003 | 1 | 0.05 |
| | | | | dravitic (?) tourmaline - rich bands, minor muscovite, minor | | | | | | | | | | | | | |
| | | | | pyrite in veinlets and/or on joint surfaces ; quartzites change thin and wispy at top, both quartz-rich and tourmaline-rich bands downwards, tourmaline - rich bands become thicker towards bottom. | | | | | | | | | | | | | |
| | | | | Sandstones - lesser, pale brown, fine grained, massive, micaceous. | | | | | | | | | | | | | |

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

| INTERVAL (m) FROM | TO | RECOVERY m | % | DESCRIPTION | FORM. | % Sn. FROM | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Rare quartz veins some with minor pyrite. BCA varies 35-60° | | | | | | | | | | | | | |
| | | | | averaging 45°. Broken along bedding and few joints. | | | | | | | | | | | | | |
| | | | | 47.1 - 48.8 Very badly broken with minor clay particularly | | | | | | | | | | | | | |
| | | | | 47.4 - 47.5m. | | | | | | | | | | | | | |
| | | | | Thin section 34.9m. | | | | | | | | | | | | | |
| 48.8 | 59.2 | 9.6 | 92 | QUARTZITE AND MINOR SANDSTONE | | | | | | | | | | | | | |
| | | | | As above but sandstones contain small (0.5mm diameter) black | | | | | | | | | | | | | |
| | | | | dendrites, quartz veins more abundant (≤ 15mm thick) with minor | | | | | | | | | | | | | |
| | | | | pyrite. BCA averages 65°. Badly broken along iron-stained joints | | | | | | | | | | | | | |
| | | | | and bedding. | | | | | | | | | | | | | |
| | | | | | | 58.0 | 59.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.05 |
| 59.2 | 70.2 | 8.0 | 73 | SILTY CLAY | | | 60.0 | <0.01 | 0.02 | | | | | | 0.006 | 1 | 0.05 |
| | | | | Pale yellow brown and (lower 1.0m) mauve, featureless. Minor pyrite | | | 61.0 | <0.01 | 0.01 | | | | | | 0.006 | 1 | 0.04 |
| | | | | as disseminated small euhedra (≤ 0.5mm diameter) or in veinlets, | | | 62.0 | <0.01 | 0.01 | | | | | | 0.005 | 1 | 0.05 |
| | | | | rarely in larger, pod-like veins (≤ 1cm thick). Bottom 1.0m | | | 63.0 | <0.01 | <0.01 | | | | | | 0.005 | 1 | 0.04 |
| | | | | biotite-rich. 3.0m core loss. | | | 64.0 | <0.01 | <0.01 | | | | | | 0.004 | 1 | 0.04 |
| | | | | | | | 65.0 | <0.01 | <0.01 | | | | | | 0.004 | <1 | 0.04 |
| | | | | 64.2 - 64.3 concentration of disseminated pyrite. | | | 66.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.04 |
| | | | | Thin section 64.5m | | | 67.0 | <0.01 | <0.01 | | | | | | 0.005 | <1 | 0.04 |
| 70.2 | 76.4 | 6.2 | 100 | QUARTZ SANDSTONE | | | 68.0 | <0.01 | <0.01 | | | | | | 0.005 | 1 | 0.04 |
| | | | | Pale mauve-brown, fine to medium grained, comprising quartz grains | | | 69.0 | <0.01 | <0.01 | | | | | | 0.004 | 1 | 0.04 |
| | | | | with varying amounts disseminated biotite. Variously oriented veins | | | 70.0 | <0.01 | <0.01 | | | | | | 0.005 | 1 | 0.04 |
| | | | | (thickness ≤ 1mm to 1cm) of quartz-pyrite, pyrite and biotite. | | | 71.0 | <0.01 | <0.01 | | | | | | 0.002 | 1 | 0.04 |
| | | | | Largely unbedded except near silty interbed (?) at 73.8m where | | | 72.0 | <0.01 | <0.01 | | | | | | 0.002 | 1 | 0.04 |
| | | | | BCA (?) 25°. Broken along joints, mostly at 60-70° to c.a., with | | | 73.0 | <0.01 | <0.01 | | | | | | 0.002 | <1 | 0.04 |
| | | | | some breaks along pyrite or biotite veins at shallower angles. | | | | | | | | | | | | | |
| | | | | 76.25 Thin vein of arsenopyrite, quartz and finely acicular | | | | | | | | | | | | | |
| | | | | tourmaline (?) VCA 65°. | | | | | | | | | | | | | |
| 76.4 | 78.4 | 2.0 | 100 | CALC-SILICATE OR ALTERED SILTSTONE (?) | | | | | | | | | | | | | |
| | | | | Pale yellow and mauve, soft, containing abundant disseminated biotite | | | | | | | | | | | | | |
| | | | | flakes (≤ 0.5mm) with very minor, disseminated, brown-black, equant | | | | | | | | | | | | | |
| | | | | grains of garnet (?) (≤ 1mm diameter). Minor irregular, pyrite | | | | | | | | | | | | | |
| | | | | veins, also very irregular, thin, green, micaceous and pyritic veins. | | | | | | | | | | | | | |
| | | | | Banded (possibly bedding), BCA (?) varying from 0° at 76.4m to | | | | | | | | | | | | | |
| | | | | 50 - 60° towards 78.4m. | | | | | | | | | | | | | |
| | | | | 76.6 - 77.0 Altered sandstone overlying a microgranite vein: | | | | | | | | | | | | | |
| | | | | with coarse dravitic tourmaline (VCA 80°) at 77.0m. | | | | | | | | | | | | | |

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

| INTERVAL (m) FROM | INTERVAL (m) TO | RECOVERY m | RECOVERY % | DESCRIPTION | FORM |
|---|---|---|---|---|---|
| 78.4 | 88.4 | 10.0 | 100 | SANDSTONE<br>Mauve, fine grained (almost c.g. siltstone). Abundant disseminated biotite, isolated, small, equant grains of garnet (?). Includes altered beds or veins in which rounded grains of cordierite (?) or greenish vesuvianite (?) are set in a biotite matrix. Numerous veins of topazized (?) pyritic microgranite (1-3cm thick), some containing coarse brown tourmaline, some haloed by vesuvianite (?)/biotite alteration. Rare pyrite veinlets. Bedded, BCA 50-60°.<br><br>85.4 - 88.4 Contains irregular quartz veins associated with relatively coarse grained biotite set in pale yellow and green, fine grained calc-silicate (?) lenses or veins 1cm thick. | |
| 88.4 | 104.7 | 16.3 | 100 | This section from<br>QUARTZ SANDSTONE<br>Grey to white, mauve-grey, medium grained, massive or faintly bedded. Variable amounts of biotite, disseminated and in veins. Minor pyrite in veinlets and/or coating joints, occasionally in flat rosettes. Minor veining of quartz and/or microgranite usually with black tourmaline. Rare brown-black tourmaline veinlets.<br><br>90.9 - 92.1 Siltstone and fine grained sandstone, mauve and pale yellow, including small lensoid veins of cream-coloured fine grained calc-silicate (?) with disseminated biotite.<br><br>92.6 - 94.4 Veined by yellow, fine grained calc-silicate (?) with disseminated biotite. Badly broken.<br><br>95.8 - 96.5 Partly altered to quartz and black tourmaline in dendritic patterns.<br><br>97.5 Isolated cassiterite (?) grains 0.5 - 1mm diameter on joint surface, JCA 35°.<br><br>99.5 - 99.7 Yellow, fine grained calc-silicate (?) alteration, veined by topazized (?) fine grained granite.<br><br>103.7 2cm vein or bed of yellow-green, fine grained calc-silicate (?) consisting of rounded olive green blebs (12 - 3mm diameter) in a softer yellow matrix. VCA 45°.<br><br>103.9-104.1 Greisenized granite, fine grained, consisting of quartz, tourmaline, muscovite and topaz (?) with minor fine | |

| % Sn FROM | % Sn TO | % Sn TOTAL | % Sn ACID SOL | % Cu | % As | % S | % Pb | % Zn | % Bi | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 81.0 | 82.0 | <0.01 | <0.01 | | | | | | 0.004 | 1 | 0.04 |
| | 83.0 | <0.01 | <0.01 | | | | | | 0.004 | 1 | 0.04 |
| | 84.0 | <0.01 | <0.01 | | | | | | 0.004 | 1 | 0.04 |
| | 85.0 | <0.01 | <0.01 | | | | | | 0.004 | 1 | 0.04 |
| | 86.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.04 |
| | 87.0 | <0.01 | 0.01 | | | | | | 0.003 | 1 | 0.04 |
| | 88.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.04 |
| 100.0 | 101.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.04 |
| | 102.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.04 |
| | 103.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.05 |
| | 104.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.04 |
| | 105.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.04 |

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

| INTERVAL (m) FROM | TO | RECOVERY m | % | DESCRIPTION | FORM | % Sn. FROM | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | grained pyrite. Top contact 70° to c.a., lower contact 80° to c.a. | | | | | | | | | | | | | |
| | | | | 104.2 3cm thick greisenized granite vein as above. | | | | | | | | | | | | | |
| | | | | 104.5 Irregular vein-style, fine grained, yellow calc-silicate/minor biotite alteration. | | | | | | | | | | | | | |
| | | | | Thin section 103.7m. | | | | | | | | | | | | | |
| 104.7 | 112.8 | 8.1 | 100 | SANDSTONE AND QUARTZITE | | 105.0 | 106.0 | <0.01 | 0.01 | | | | | | 0.006 | 1 | 0.04 |
| | | | | Mauve, fine grained, bedded. Disseminated biotite. Contains | | | 107.0 | <0.01 | 0.01 | | | | | | 0.004 | 2 | 0.04 |
| | | | | irregular greisenized granite veins, some haloed by vesuvianite (?) | | | 108.0 | <0.01 | <0.01 | | | | | | 0.004 | 1 | 0.04 |
| | | | | /biotite alteration. Includes altered zones in which rounded grains | | | 109.0 | <0.01 | <0.01 | | | | | | 0.004 | 2 | 0.05 |
| | | | | of cordierite (?), 1-2mm diameter, set in biotite matrix. Trace | | | 110.0 | <0.01 | <0.01 | | | | | | 0.005 | 2 | 0.04 |
| | | | | pyrite in veinlets. BCA averages 65°. | | | 111.0 | <0.01 | 0.01 | | | | | | 0.005 | 2 | 0.04 |
| | | | | | | | 112.0 | <0.01 | 0.01 | | | | | | 0.005 | 1 | 0.04 |
| | | | | 111.7 - 112.4 Contains disseminated euhedral or subhedral equant crystals of black spinel (?). | | | 113.0 | <0.01 | <0.01 | | | | | | 0.004 | 2 | 0.04 |
| | | | | | | | 114.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.04 |
| | | | | Thin section 112.3m. | | | 115.0 | <0.01 | 0.01 | | | | | | 0.001 | 2 | 0.04 |
| 112.8 | 130.3 | 17.5 | 100 | QUARTZITE AND CALC-SILICATE | | | 116.0 | <0.01 | 0.01 | | | | | | 0.002 | 1 | 0.04 |
| | | | | Quartzite, cream, pale pinkish brown, pale green, weakly bedded (BCA | | | 117.0 | <0.01 | <0.01 | | | | | | 0.002 | 1 | 0.04 |
| | | | | varies 40-55°), local minor disseminated biotite, minor sulphides - | | | 118.0 | <0.01 | 0.01 | | | | | | 0.001 | 1 | 0.04 |
| | | | | mainly disseminated and veinlet pyrite (some as flat rosettes), trace | | | 119.0 | <0.01 | <0.01 | | | | | | 0.002 | <1 | 0.04 |
| | | | | pyrrhotite and arsenopyrite, where coloured pinkish brown may contain | | | 120.0 | 0.03 | <0.01 | | | | | | 0.002 | 1 | 0.04 |
| | | | | very fine grained dravite. Cut by numerous soft, pyritic, black | | | 121.0 | <0.01 | <0.01 | | | | | | 0.001 | <1 | 0.04 |
| | | | | veinlets (serpentine or chlorite?). Calc-silicate, cream, consisting | | | 122.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | 0.04 |
| | | | | largely of massive, soft white tremolite (?) in rosettes, non- | | | 123.0 | <0.01 | <0.01 | | | | | | 0.004 | 1 | 0.04 |
| | | | | calcareous; partly parallel to bedding and partly cross-cutting. | | | 124.0 | <0.01 | <0.01 | | | | | | 0.003 | 1 | <0.01 |
| | | | | Core broken along bedding, less frequently along joints. | | | 125.0 | <0.01 | <0.01 | | | | | | 0.002 | <1 | <0.01 |
| | | | | | | | 126.0 | <0.01 | <0.01 | | | | | | 0.001 | <1 | <0.01 |
| | | | | 124.3 - 125.1 Pale blue-grey and brown calc-silicates (?) | | | 127.0 | <0.01 | <0.01 | | | | | | 0.002 | <1 | <0.01 |
| | | | | interbanded with olive green chlorite (?) and biotite, | | | 128.0 | <0.01 | <0.01 | | | | | | 0.003 | <1 | <0.01 |
| | | | | minor veinlet pyrite. | | | 129.0 | <0.01 | <0.01 | | | | | | 0.002 | <1 | <0.01 |
| | | | | | | | 130.0 | <0.01 | <0.01 | | | | | | 0.002 | <1 | <0.01 |
| | | | | 129.1 - 130.3 Olive green calc-silicate (?), chloritic (?), patches | | | 131.0 | 0.02 | <0.01 | | | | | | 0.002 | 1 | <0.01 |
| | | | | of brown garnet (?), relatively abundant vein pyrite. | | | | | | | | | | | | | |
| | | | | Thin section 129.1m. | | | | | | | | | | | | | |
| 130.3 | 151.3 | 21.0 | 100 | QUARTZITE | | | | | | | | | | | | | |
| | | | | Grey, mottled with yellow, weakly bedded; yellow patches soft - | | | | | | | | | | | | | |
| | | | | possibly weathered calc-silicates (?). Patchy disseminated muscovite. | | | | | | | | | | | | | |
| | | | | Minor quartz veins, 0.5 - 3.0cm thick, VCA generally 70°. Minor | | | | | | | | | | | | | |
| | | | | calc-silicate (?) veins. Trace pyrite in veinlets, rarely as veins | | | | | | | | | | | | | |
| | | | | up to 1cm. thick. Folded BCA varies 5-35°. Broken along joints, | | | | | | | | | | | | | |
| | | | | infrequently parallel bedding. | | | | | | | | | | | | | |

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

| INTERVAL (m) FROM | TO | RECOVERY m | % | DESCRIPTION | FORM | FROM | TO | % Sn. TOTAL | % Sn. ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 138.2 - 140.1 Micaceous (Muscovite) quartzite with 10% of total | | 140.0 | 141.0 | 0.01 | <0.01 | | | | | | 0.002 | 1 | <0.01 |
| | | | | being veins of quartz, biotite and pyrite, minor | | | 142.0 | 0.05 | <0.01 | | | | | | 0.002 | 1 | <0.01 |
| | | | | calc-silicates. | | | 143.0 | 0.01 | 0.01 | | | | | | 0.002 | 2 | <0.01 |
| | | | | 140.8 - 141.4 Badly broken altered quartzite. Serpentine coating | | | | | | | | | | | | | |
| | | | | some fractures. One vein (1.5cm thick) of pyrite, | | | | | | | | | | | | | |
| | | | | quartz, biotite and clay at 140.8m. | | | | | | | | | | | | | |
| 151.3 | 176.8 | 25.4 | 100 | QUARTZITE | | | | | | | | | | | | | |
| | | | | Grey, well bedded, comprising pale grey siliceous bands and dark | | | | | | | | | | | | | |
| | | | | grey-green chloritic (?) or brown tourmaline - rich (?) bands. | | | | | | | | | | | | | |
| | | | | Minor to trace pyrite in veinlets and disseminated. Few quartz and | | | | | | | | | | | | | |
| | | | | quartz-biotite veins 0.5-2.0cm thick, VCA generally 70-80° but | | | | | | | | | | | | | |
| | | | | occasionally parallel bedding. BCA averages 15° 151.3 - 157.3m, 30° | | | | | | | | | | | | | |
| | | | | 157.3 - 170.3m, 45° 170.3 - 176.8m. Broken along joints and bedding. | | 156.0 | 157.0 | 0.01 | 0.01 | | | | | | 0.002 | 1 | <0.01 |
| | | | | | | | 158.0 | 0.01 | <0.01 | | | | | | 0.002 | 1 | <0.01 |
| | | | | 153.0 - 153.4 Yellow, soft clay alteration with thin veins rich | | | 159.0 | 0.05 | 0.01 | | | | | | 0.002 | 1 | <0.01 |
| | | | | in biotite, green micas and serpentine. Very badly | | | 160.0 | 0.03 | 0.01 | | | | | | 0.004 | 2 | <0.01 |
| | | | | broken. | | | 161.0 | 0.02 | 0.01 | | | | | | 0.003 | 1 | <0.01 |
| | | | | | | | 162.0 | 0.03 | <0.01 | | | | | | 0.003 | 2 | <0.01 |
| | | | | 156.2 2cm thick breccia comprising quartzite fragments in | | | 163.0 | 0.03 | <0.01 | | | | | | 0.002 | 1 | <0.01 |
| | | | | clay matrix, crosses core at 35° to c.a. | | | 164.0 | 0.03 | <0.01 | | | | | | 0.003 | 1 | <0.01 |
| | | | | 156.7 - 157.0 Yellow, clayey alteration (after calc-silicates?) | | | | | | | | | | | | | |
| | | | | associated with several quartz veins. | | | | | | | | | | | | | |
| | | | | 159.0 5cm thick microgranite dyke, yellow and argillized, | | | | | | | | | | | | | |
| | | | | minor disseminated tourmaline. Crosses core at ~70° | | | | | | | | | | | | | |
| | | | | to c.a. | | | | | | | | | | | | | |
| | | | | 163.8 - 164.0 Muscovite-bearing quartzite. Includes small vein of | | | | | | | | | | | | | |
| | | | | quartz and small brown garnets (?), VCA 85°. | | | | | | | | | | | | | |
| | | | | Thin section 153.2m. | | | | | | | | | | | | | |
| 176.8 | 178.2 | 1.2 | 86 | SILTSTONE AND QUARTZITE | | | | | | | | | | | | | |
| | | | | Interbedded, grey. Minor fine grained biotite in veins, veinlets. | | | | | | | | | | | | | |
| | | | | Thin irregular veins of pyrite and quartz. BCA averages 40°. | | | | | | | | | | | | | |
| 178.2 | 184.8 | 4.9 | 74 | SHALE AND CALC-SILICATE | | 178.0 | 179.0 | 0.01 | 0.01 | 0.05 | <0.1 | 2.3 | <0.01 | 0.02 | 0.003 | 2 | <0.01 |
| | | | | Interbanded. Shale dark grey, laminated (BCA averages 40°), containing | | | 180.0 | 0.01 | 0.01 | 0.05 | 0.5 | 3.2 | <0.01 | 0.01 | 0.005 | 1 | <0.01 |
| | | | | veinlets of pyrite, quartz and minor serpentine. Calc-silicate, | | | 181.0 | <0.01 | 0.01 | 0.05 | <0.1 | 1.9 | <0.01 | <0.01 | 0.001 | 1 | <0.01 |
| | | | | yellow, green-brown, very variable mineralogy, non calcareous, locally | | | 182.0 | <0.01 | 0.01 | 0.03 | <0.1 | 3.2 | <0.01 | 0.12 | 0.004 | 1 | <0.01 |
| | | | | biotite-rich, minor, coarsely crystalline pyrite. Pink and garnet- | | | 183.0 | <0.01 | 0.01 | 0.03 | <0.1 | 1.0 | <0.01 | 0.01 | 0.002 | 1 | <0.01 |
| | | | | rich (?) 181.2 - 181.5 and 182.1 - 182.4m. Very badly broken, | | | 184.0 | <0.01 | 0.01 | 0.03 | <0.1 | 2.5 | <0.01 | <0.01 | 0.002 | 2 | <0.01 |

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

NWPB

| INTERVAL (m) FROM | TO | RECOVERY m | % | DESCRIPTION | FORM. | % Sn. FROM | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 1.7m core loss. | | 184.0 | 185.0 | <0.01 | 0.01 | 0.04 | <0.1 | 1.8 | <0.01 | <0.01 | 0.004 | 1 | <0.01 |
| | | | | Thin section 181 m. | | | | | | | | | | | | | |
| 184.8 | 187.6 | 2.8 | 100 | SILICIFIED SHALES | | 185.0 | 186.0 | <0.01 | 0.01 | 0.04 | <0.1 | 3.5 | <0.01 | 0.01 | 0.002 | 1 | <0.01 |
| | | | | Grey, hard, finely laminated. Includes veins or beds of black and | | | 187.0 | <0.01 | 0.01 | 0.02 | <0.1 | 2.4 | <0.01 | 0.01 | 0.003 | 1 | <0.01 |
| | | | | green-black serpentine minor 184.8 - 186.6, ~30% of intersection | | | | | | | | | | | | | |
| | | | | 186.6 - 187.6m. Minor sulphides, largely pyrrhotite in serpentine. | | | | | | | | | | | | | |
| | | | | BCA average 50°. | | | | | | | | | | | | | |
| 187.6 | 193.7 | 6.1 | 100 | MINERALIZED SERPENTINE | | 187.0 | 188.0 | <0.01 | 0.01 | 0.02 | <0.1 | 4.1 | <0.01 | 0.02 | 0.003 | 1 | <0.01 |
| | | | | Colour varies black through to pale green. Approximately 10% | | | 189.0 | <0.01 | 0.01 | 0.02 | <0.1 | 4.1 | <0.01 | 0.05 | 0.002 | 1 | <0.01 |
| | | | | sulphides. Mostly disseminated pyrrhotite, lesser pyrite largely | | | 190.0 | <0.01 | 0.01 | 0.03 | <0.1 | 3.2 | <0.01 | 0.01 | 0.003 | 2 | <0.01 |
| | | | | in veinlets. Variably ~~eliminated but~~ minor magnetite. | | | 191.0 | <0.01 | 0.01 | 0.03 | <0.1 | 3.3 | <0.01 | 0.01 | 0.001 | 2 | <0.01 |
| | | | | | | | 192.0 | 0.05 | 0.03 | 0.03 | <0.1 | 3.9 | <0.01 | 0.01 | 0.004 | 2 | <0.01 |
| 193.7 | 194.2 | 0.5 | 100 | SILICIFIED MICROGRANITE | | | 193.0 | 0.01 | 0.02 | 0.04 | <0.1 | 4.3 | <0.01 | 0.21 | 0.003 | 2 | <0.01 |
| | | | | Grey, feldspar phenocrysts ( ≤1.5mm diameter) set in a translucent | | | 194.0 | 0.01 | 0.01 | 0.01 | <0.1 | 0.6 | <0.01 | 0.01 | 0.001 | 2 | <0.01 |
| | | | | grey, siliceous groundmass, minor biotite, trace sulphides. | | | | | | | | | | | | | |
| | | | | Enveloped by white quartz or chill zone (?) 10cm thick. Contacts | | | | | | | | | | | | | |
| | | | | irregular, ~50° to c.a. | | | | | | | | | | | | | |
| 194.2 | 211.0 | 16.8 | 100 | MAGNETITE SKARN | | 194.0 | 195.0 | <0.01 | 0.01 | 0.05 | <0.1 | 7.9 | <0.01 | 0.02 | 0.002 | 2 | <0.01 |
| | | | | Black magnetite interspersed with apple green through to black | | | 196.0 | <0.01 | 0.01 | 0.03 | <0.1 | 2.0 | <0.01 | 0.02 | 0.002 | 2 | <0.01 |
| | | | | serpentine. Magnetite coarsely crystalline down to 200m, finer | | | 197.0 | 0.03 | 0.02 | 0.02 | <0.1 | 2.0 | <0.01 | 0.03 | 0.004 | 2 | 0.04 |
| | | | | grained below that point. Pyrrhotite disseminated and in veinlets | | | 198.0 | 0.02 | 0.02 | 0.03 | <0.1 | 1.4 | <0.01 | 0.08 | 0.004 | 2 | 0.01 |
| | | | | cutting magnetite, pyrrhotite content decreasing downwards ( ≤ 10% | ~~Mn~~ | | 199.0 | 0.02 | 0.02 | 0.04 | <0.1 | 2.9 | <0.01 | 0.03 | 0.001 | 2 | <0.01 |
| | | | | of total). Minor pyrite in quartz veins (± pyrrhotite) ≤ 1cm thick. | | | 200.0 | 0.04 | 0.02 | 0.03 | <0.1 | 0.9 | <0.01 | 0.06 | 0.001 | 2 | <0.01 |
| | | | | Few cherty veins or alteration zones, white or pale green, ≤ 30cm | 0.32 | | 201.0 | 0.86 | 0.80 | 0.40 | 0.3 | 4.1 | <0.01 | 0.01 | 0.017 | 4 | 0.01 |
| | | | | thick, VCA varies widely. Numerous thin irregular calcite veins, | 0.35 | | 202.0 | 1.14 | 1.10 | 0.11 | 0.2 | 2.1 | <0.01 | 0.01 | 0.014 | 2 | 0.03 |
| | | | | especially 205.2 - 207.2m where core is cut by open joints lined | 0.37 | | 203.0 | 0.51 | 0.40 | 0.10 | 0.2 | 1.6 | <0.01 | 0.03 | 0.012 | 2 | 0.02 |
| | | | | with botryoidal calcite and small pyrite euhedra and filled with | 0.42 | | 204.0 | 0.60 | 0.40 | 0.09 | 0.4 | 1.0 | <0.01 | 0.10 | 0.014 | 3 | <0.01 |
| | | | | white and black clayey pug. Minor, fine grained, red-brown | 0.49 | | 205.0 | 0.57 | 0.40 | 0.09 | 0.1 | 0.8 | <0.01 | 0.16 | 0.007 | 2 | <0.01 |
| | | | | sphalerite(?) 205-211m. | 0.45 | | 206.0 | 0.07 | 0.07 | 0.03 | <0.1 | 1.1 | <0.01 | 1.08 | 0.003 | 2 | <0.01 |
| | | | | | 0.71 | | 207.0 | 0.14 | 0.10 | 0.02 | <0.1 | 1.5 | <0.01 | 0.44 | 0.005 | 2 | <0.01 |
| | | | | 208.2 - 208.5 Core cut by collapse breccia vein 2cm thick, | 0.46 | | 208.0 | 0.04 | 0.04 | 0.02 | <0.1 | 1.4 | <0.01 | 1.09 | 0.001 | 2 | <0.01 |
| | | | | serpentine fragments in calcite matrix. VCA 10-15°. | 0.55 | | 209.0 | 0.04 | 0.05 | 0.02 | <0.1 | 1.4 | <0.01 | 1.76 | 0.002 | 3 | <0.01 |
| | | | | | 0.44 | | 210.0 | 0.11 | 0.11 | 0.02 | <0.1 | 1.2 | <0.01 | 1.56 | 0.004 | 3 | <0.01 |
| | | | | Thin sections 194.7, 198.8, 200.7, 202.2, 207.1 m. | | | | | | | | | | | | | |
| | | | | Gradational change to: | 0.38 | | 211.0 | 0.22 | 0.19 | 0.02 | <0.1 | 2.1 | <0.01 | 2.55 | 0.007 | 2 | <0.01 |
| | | | | | 0.23 | | 212.0 | 0.04 | 0.05 | 0.03 | <0.1 | 0.4 | <0.01 | 0.04 | 0.005 | 2 | <0.01 |
| 211.0 | 240.0 | 29.0 | 100 | SERPENTINOUS CARBONATE | | | | | | | | | | | | | |
| | | | | Grey, green-grey, largely calcite, interspersed with minor apple | | | | | | | | | | | | | |
| | | | | green and green-black serpentinous carbonate in veins and irregular | | | | | | | | | | | | | |
| | | | | lenses. Core has granular appearance ("grain size" 0.5-1.0mm) | | | | | | | | | | | | | |
| | | | | crudely banded (Bedding?). Patchy minor black Mg-silicates (?) as | | | | | | | | | | | | | |
| | | | | spots, rarely more massive with pale grey cordierite (?) crystals. | | | | | | | | | | | | | |

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

NWP8

| INTERVAL (m) FROM | INTERVAL (m) TO | RECOVERY m | RECOVERY % | DESCRIPTION | FORM. | % Sn FROM | % Sn TO | % Sn TOTAL | % Sn ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Minor veinlets of red-brown siderite (?), minor calcite veining associated with serpentinous carbonate. Rare magnetite. Below 233.2m increasingly altered. | | | | | | | | | | | | | |
| | | | | 228.1 - 228.7 Breccia-like texture formed by grey carbonate replacement of earlier white carbonate. | | | | | | | | | | | | | |
| | | | | 233.2 - 237.4 Carbonate cut by thick veins of white opaline silica (VCA 10-40°) which are themselves cut by numerous calcite veinlets. Thin puggy clay seams. Several open-space filling calcite veins - one 10cm thick at 237.7- 237.8m, VCA 35°. Higher proportion of serpentine cf. rest of intersection, minor magnetite. | | | | | | | | | | | | |
| | | | | 237.4 - 238.3 White calc-silicate, soft and calcareous. | | | | | | | | | | | | | |
| | | | | Thin sections 215.1, 231.3, 237.8 m. | | 233.0 | 234.0 | 0.21 | <0.01 | 0.04 | 0.7 | 0.2 | <0.01 | 0.04 | 0.004 | <1 | 0.03 |
| 240.0 | 243.9 | 3.8 | 97 | HORNFELSED SHALE AND CARBONATE | | | 235.0 | <0.01 | <0.01 | 0.03 | <0.1 | <0.1 | <0.01 | <0.01 | 0.004 | <1 | 0.01 |
| | | | | Interbedded. Shale black and grey, finely laminated, pyritic (pyrite | | | 236.0 | <0.01 | <0.01 | 0.03 | <0.1 | <0.1 | <0.01 | 0.03 | 0.003 | <1 | 0.02 |
| | | | | disseminated and in veinlets), veinlets of green-black serpentine | | | 237.0 | <0.01 | <0.01 | 0.03 | 0.1 | <0.1 | <0.01 | 0.08 | 0.011 | <1 | 0.02 |
| | | | | and quartz. Thin beds of puggy grey-green clay. Carbonate, white | | | 238.0 | <0.01 | 0.03 | 0.04 | <0.1 | <0.1 | <0.01 | 0.11 | 0.016 | 1 | 0.01 |
| | | | | and grey, calcareous, crudely bedded, veined by later calcite and | | | 239.0 | <0.01 | 0.01 | 0.03 | 0.1 | <0.1 | <0.01 | 0.05 | 0.016 | 1 | 0.02 |
| | | | | black serpentine (?). Minor quartzite BCA averages 35°. | | | 240.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.9 | <0.01 | 0.01 | 0.003 | <1 | 0.02 |
| | | | | | | | 241.0 | <0.01 | <0.01 | 0.03 | <0.1 | 1.3 | <0.01 | <0.01 | 0.006 | <1 | 0.03 |
| 243.9 | 249.3 | 4.9 | 91 | QUARTZITE MINOR SHALE | | | 242.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.7 | <0.01 | <0.01 | 0.007 | <1 | 0.02 |
| | | | | Quartzite, grey, crudely bedded, minor disseminated pyrite and | | | 243.0 | <0.01 | <0.01 | 0.04 | <0.1 | 1.5 | <0.01 | <0.01 | 0.004 | <1 | 0.02 |
| | | | | pyrrhotite, veinlet pyrite, isolated grains dark red-brown sphalerite | | | 244.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.9 | <0.01 | <0.01 | 0.005 | 1 | 0.02 |
| | | | | (?), some with muscovite. Shale similar to above but containing | | | 245.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.8 | <0.01 | 0.12 | 0.004 | 1 | 0.02 |
| | | | | minor pale grey andalusite, no serpentine. Minor black and green- | | | 246.0 | <0.01 | <0.01 | 0.04 | <0.1 | 1.2 | <0.01 | 0.05 | 0.004 | 1 | 0.02 |
| | | | | black, soft finely vuggy, sandy material (alteration product of | | | 247.0 | <0.01 | <0.01 | 0.04 | <0.1 | 1.2 | <0.01 | 0.05 | 0.004 | 1 | 0.02 |
| | | | | quartzites?). Very minor quartz veining. | | | 248.0 | <0.01 | <0.01 | 0.06 | <0.1 | 2.0 | <0.01 | 0.10 | 0.005 | <1 | 0.03 |
| | | | | | | | 249.0 | <0.01 | <0.01 | 0.07 | <0.1 | 1.1 | <0.01 | 0.17 | 0.004 | 1 | 0.02 |
| | | | | 247.8 - 247.9 Carbonate, pale grey, calcareous, minor pyrite. | | | 250.0 | <0.01 | <0.01 | 0.06 | <0.1 | 1.0 | <0.01 | 0.73 | 0.005 | 1 | 0.02 |
| | | | | | | | 251.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.1 | <0.01 | 0.04 | 0.003 | <1 | 0.03 |
| 249.3 | 252.1 | 2.8 | 100 | CALC-SILICATE | | | 252.0 | <0.01 | <0.01 | 0.05 | <0.1 | 0.3 | <0.01 | 0.27 | 0.004 | <1 | 0.01 |
| | | | | Pale grey-green, weakly laminated, weakly calcareous. Patches of | | | 253.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.9 | <0.01 | 0.01 | 0.003 | <1 | 0.02 |
| | | | | pale green diopside (?) and dark grey-green chlorite or serpentine. | | | 254.0 | <0.01 | <0.01 | 0.07 | <0.1 | 3.2 | <0.01 | 0.04 | 0.003 | 1 | 0.02 |
| | | | | Minor disseminated dark brown-grey sphalerite 251.1 - 251.8m. Grey | | | 255.0 | <0.01 | <0.01 | 0.04 | <0.1 | 2.9 | <0.01 | <0.01 | 0.003 | <1 | 0.02 |
| | | | | tremolite (?) - rich zone at 250.5 - 250.6m. BCA averages 40°, | | | 256.0 | <0.01 | <0.01 | 0.04 | <0.1 | 2.5 | <0.01 | <0.01 | 0.003 | <1 | 0.02 |
| | | | | fold axis (minor overturning) at 252.0m. | | | 257.0 | <0.01 | <0.01 | 0.04 | <0.1 | 4.2 | <0.01 | 0.16 | 0.003 | <1 | 0.02 |
| | | | | | | | 258.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.3 | <0.01 | 0.02 | 0.003 | <1 | 0.03 |
| 252.1 | 267.1 | 14.2 | 95 | HORNFELSED SHALE | | | 259.0 | <0.01 | <0.01 | 0.04 | <0.1 | 2.9 | <0.01 | 0.05 | 0.003 | <1 | 0.02 |
| | | | | Black, finely laminated, hard and brittle, calcareous, numerous thin | | | 260.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.0 | <0.01 | <0.01 | 0.003 | <1 | 0.02 |
| | | | | pyrite and pyrite -quartz veins (0.5 - 4.0mm thick), rarely with | | | 261.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.1 | <0.01 | 0.02 | 0.003 | <1 | 0.01 |

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

| INTERVAL (m) FROM | TO | RECOVERY m | % | DESCRIPTION | FORM. | % Sn FROM | TO | TOTAL | ACID SOL | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | chalcopyrite (?), minor tremolite (?) in pale grey, elongate laths | | 261.0 | 262.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.9 | <0.01 | 0.01 | 0.002 | <1 | 0.01 |
| | | | | particularly 252.1 - 252.6, 260.7 - 267.1m. Minor soft altered (?) | | | 263.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.4 | <0.01 | <0.01 | 0.002 | <1 | 0.01 |
| | | | | zones particularly 256.6 - 260.0m. BCA averages 40°, minor folding | | | 264.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.6 | <0.01 | 0.01 | 0.004 | <1 | 0.01 |
| | | | | (overturning) 264.1m. Broken along joints, some with graphitic | | | 265.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.1 | <0.01 | 0.01 | 0.004 | <1 | 0.01 |
| | | | | slickensides. | | | 266.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.6 | <0.01 | <0.01 | 0.002 | <1 | 0.01 |
| | | | | Thrusting 262.4m. | | | 267.0 | <0.01 | <0.01 | 0.05 | <0.1 | 1.7 | <0.01 | 0.05 | 0.002 | <1 | 0.01 |
| | 267.1 | 268.8 | 1.7 | 100 | SILICIFIED CALC-SILICATE (?) | | 268.0 | 0.01 | <0.01 | 0.04 | <0.1 | 0.3 | <0.01 | 0.04 | 0.004 | <1 | 0.01 |
| | | | | | Pale grey-green hard, non-calcareous, pervasively veined by dark grey- | | 269.0 | 0.01 | <0.01 | 0.05 | <0.1 | <0.1 | <0.01 | <0.01 | 0.002 | <1 | 0.01 |
| | | | | | green mineral and quartz. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | 268.8 | 270.2 | 1.4 | 100 | CORDIERITE (?) - RICH SHALE | | 269.0 | 270.0 | <0.01 | <0.01 | 0.02 | <0.1 | 0.9 | <0.01 | <0.01 | 0.002 | <1 | 0.02 |
| | | | | | Pale grey cordierite (?) as large (>3mm diameter) equant crystals | | | | | | | | | | | | |
| | | | | | in dark grey groundmass. Minor pyrite in veins. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | 270.2 | 275.5 | 2.4 | 45 | HORNFELSED SHALE | | 270.0 | 271.0 | <0.01 | <0.01 | 0.06 | <0.1 | 2.3 | <0.01 | 0.01 | 0.003 | <1 | 0.02 |
| | | | | | Black, hard, faintly bedded. Numerous pyrite veins - pyrite as | | | 272.0 | <0.01 | <0.01 | 0.06 | <0.1 | 2.1 | <0.01 | <0.01 | 0.003 | <1 | 0.02 |
| | | | | | flat rosettes and euhedra (≤1mm diameter). Few thin black | | | 273.0 | <0.01 | <0.01 | 0.06 | <0.1 | 2.3 | <0.01 | <0.01 | 0.003 | <1 | 0.02 |
| | | | | | serpentine veinlets towards bottom. BCA varies 0-35°. 2.9m | | | 274.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.2 | <0.01 | 0.02 | 0.003 | <1 | 0.02 |
| | | | | | core loss. | | | 275.0 | <0.01 | <0.01 | 0.05 | <0.1 | 1.4 | <0.01 | <0.01 | 0.002 | <1 | 0.01 |
| | | | | | | | | 276.0 | <0.01 | <0.01 | 0.06 | <0.1 | 0.9 | <0.01 | 0.02 | 0.002 | 1 | 0.02 |
| | 275.5 | 278.3 | 2.5 | 89 | SERPENTINE AND CALC-SILICATE | | | 277.0 | <0.01 | 0.01 | 0.05 | <0.1 | 2.4 | <0.01 | 0.74 | 0.002 | 2 | 0.02 |
| | | | | | Serpentine, black, dark and pale green, with abundant disseminated | | | 278.0 | <0.01 | 0.01 | 0.06 | <0.1 | 3.0 | <0.01 | 0.42 | 0.002 | 2 | 0.02 |
| | | | | | sulphide (mostly pyrite) and fine grained magnetite. Calc-silicate, | | | | | | | | | | | | |
| | | | | | pale grey, calcareous, with patches of black Mg-silicate (?). | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | 278.3 | 293.6 | | | HORNFELSED SHALE | | 278.0 | 279.0 | <0.01 | 0.01 | 0.03 | <0.1 | 1.0 | <0.01 | 0.16 | 0.002 | 2 | 0.01 |
| | | | | | Black and grey, laminated, partly talcose. White and green, very | | | 280.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.6 | <0.01 | <0.01 | 0.002 | 1 | 0.01 |
| | | | | | soft talc and serpentine in thin (1-3cm) veins and coating bedding | | | | | | | | | | | | |
| | | | | | planes, in part so intensely that sections are very soft and | | | | | | | | | | | | |
| | | | | | incompetent. Minor vein quartz. Insignificant sulphide except | | | | | | | | | | | | |
| | | | | | 287.5 - 287.7 where very fine grained disseminated pyrrhotite | | | | | | | | | | | | |
| | | | | | associated with green-black serpentine. BCA 30-40°. | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | 293.6 | 307.3 | 13.7 | 100 | HORNFELSED SHALE, MINOR SERPENTINE | | | | | | | | | | | | |
| | | | | | Shale, grey, similar to above but more competent. Serpentine, green | | | | | | | | | | | | |
| | | | | | -black, cross-cutting bedding but VCA near parallel BCA, veined by | | | | | | | | | | | | |
| | | | | | very soft clay veins, asbestos and calcite veinlets, in places | | | | | | | | | | | | |
| | | | | | associated with grey carbonate, muscovite and calc-silicates (?) | | | | | | | | | | | | |
| | | | | | particularly 300.8 - 301.4m. BCA 20-40° except 301.3 - 307.3m. | | | | | | | | | | | | |
| | | | | | where strongly folded; few folded quartz veins. | | | | | | | | | | | | |

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

| INTERVAL (m) FROM | TO | RECOVERY m | % | DESCRIPTION | FORM. |
|---|---|---|---|---|---|
| 307.3 | 311.2 | 3.9 | 100 | SERPENTINE AND CALC-SILICATE (?)<br>Thin (1-2mm average) "beds" of black and green-black serpentine intercalated with green-grey micaceous calc-silicate(?) and minor grey shale. Minor magnetite and veinlet calcite and clay. Minor disseminated pyrite 309.2 - 309.4m.<br><br>309.9 - 311.2 Serpentine and calc-silicate in massive patches (i.e. not thinly interbanded). Veined by pyrite with lesser pyrrhotite and sphalerite 310.1 - 310.3m. Soft and clayey 310.9 - 311.1m.<br>Thin section 309.5m. | |
| 311.2 | 313.4 | 2.0 | 91 | HORNFELSED SHALE<br>Grey, hard, laminated, finely micaceous. Abundant pyrite disseminated and in thin veins ($\leq$2mm thick). Few laths of dark brown mineral (average size 1 x 2mm). Minor, irregular quartz veining. One 1cm vein of pyrite and sphalerite at 312.3m. Upper contact marked by badly broken zone containing coarse pyrite crystals. BCA averages 35°. | |
| 313.4 | 360.9 | | | ALTERED QUARTZITE<br>Pale grey-brown, hard, bedded. Consists of varying amounts of quartz, brown tourmaline in brown spots elongated parallel to bedding, laths of a dark grey-green mineral, muscovite, Disseminated sulphides throughout - mostly pyrite, trace pyrrhotite, sphalerite and chalcopyrite. Veined by quartz (vein thickness 1-5mm), some with biotite and less commonly, pyrite. BCA averages 45°. Broken along infrequent joints.<br><br>317.6 5mm pyrite - fluorite - quartz vein on slickensided surface, VCA 30°.<br><br>319.3 Pyrite vein, 1cm thick, VCA 80°.<br><br>323.2 - 323.7 10cm of green serpentinous alteration followed by 40cm yellow calc-silicate apparently replacing and/or veining quartzite, consisting largely of felted yellow rosettes of tremolite(?), minor biotite and vein pyrite.<br><br>327.2- 327.4 Quartz-siderite(?) - pyrite - biotite vein.<br><br>328.5 - 328.7 Pyrite vein, 3-4cm thick, VCA ~10°. | |

| FROM | TO | % Sn. TOTAL | % Sn. ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 308.0 | 309.0 | <0.01 | <0.01 | 0.03 | <0.1 | <0.1 | <0.01 | 0.07 | 0.003 | 1 | 0.01 |
| | 309.0 | <0.01 | 0.01 | 0.03 | <0.1 | 0.1 | <0.01 | 0.14 | 0.004 | 2 | 0.01 |
| | 310.0 | <0.01 | 0.02 | 0.04 | <0.1 | 1.1 | <0.01 | 0.61 | 0.004 | 3 | 0.02 |
| | 311.0 | <0.01 | <0.01 | 0.05 | <0.1 | 1.7 | <0.01 | 0.50 | 0.003 | 3 | 0.01 |
| | 312.0 | 0.02 | 0.01 | 0.06 | <0.1 | 2.6 | <0.01 | <0.01 | 0.004 | 1 | 0.01 |
| | 313.0 | <0.01 | 0.01 | 0.07 | <0.1 | 3.5 | <0.01 | 0.02 | 0.003 | 1 | 0.01 |
| | 314.0 | <0.01 | <0.01 | 0.06 | <0.1 | 2.1 | <0.01 | <0.01 | 0.003 | 2 | 0.03 |
| | 315.0 | <0.01 | <0.01 | 0.06 | <0.1 | 1.5 | <0.01 | <0.01 | 0.003 | 3 | 0.02 |
| | 316.0 | <0.01 | <0.01 | 0.05 | <0.1 | 1.4 | <0.01 | <0.01 | 0.004 | 2 | 0.02 |
| | 317.0 | 0.01 | <0.01 | 0.06 | <0.1 | 1.7 | <0.01 | 0.01 | 0.003 | 4 | 0.01 |
| | 318.0 | <0.01 | <0.01 | 0.06 | <0.1 | 1.3 | <0.01 | 0.01 | 0.003 | 4 | 0.03 |
| | 319.0 | <0.01 | <0.01 | 0.06 | <0.1 | 1.2 | <0.01 | 0.01 | 0.003 | 4 | 0.02 |
| | 320.0 | <0.01 | 0.01 | 0.05 | <0.1 | 1.3 | 0.01 | 0.02 | 0.003 | 4 | 0.02 |
| | 321.0 | <0.01 | 0.01 | 0.06 | <0.1 | 1.4 | 0.19 | 0.10 | 0.003 | 6 | 0.01 |
| | 322.0 | 0.01 | <0.01 | 0.05 | <0.1 | 1.6 | 0.06 | 0.11 | 0.003 | 6 | 0.01 |
| | 323.0 | 0.01 | 0.01 | 0.07 | <0.1 | 1.5 | 0.03 | 0.04 | 0.003 | 4 | 0.02 |
| | 324.0 | <0.01 | <0.01 | 0.06 | <0.1 | 1.7 | <0.01 | <0.01 | 0.003 | 2 | 0.02 |
| | 325.0 | 0.01 | 0.01 | 0.07 | <0.1 | 1.2 | <0.01 | <0.01 | 0.004 | 2 | 0.02 |
| | 326.0 | <0.01 | 0.01 | 0.06 | <0.1 | 1.3 | <0.01 | <0.01 | 0.003 | 2 | 0.02 |
| | 327.0 | <0.01 | 0.01 | 0.09 | <0.1 | 2.3 | <0.01 | 0.01 | 0.005 | 4 | 0.02 |
| | 328.0 | <0.01 | <0.01 | 0.05 | <0.1 | 1.0 | <0.01 | <0.01 | 0.009 | 4 | 0.02 |
| | 329.0 | <0.01 | <0.01 | 0.09 | <0.1 | 3.6 | <0.01 | <0.01 | 0.005 | 4 | 0.02 |
| | 330.0 | <0.01 | 0.01 | 0.08 | <0.1 | 2.9 | <0.01 | 0.01 | 0.006 | 3 | 0.03 |
| | 331.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.9 | <0.01 | <0.01 | 0.004 | 2 | 0.02 |
| | 332.0 | <0.01 | 0.02 | 0.04 | <0.1 | 0.2 | <0.01 | <0.01 | 0.002 | 1 | 0.01 |
| | 333.0 | <0.01 | <0.01 | 0.05 | <0.1 | 0.3 | <0.01 | <0.01 | 0.004 | 3 | 0.03 |
| | 334.0 | <0.01 | 0.01 | 0.04 | <0.1 | 0.3 | <0.01 | <0.01 | 0.003 | 2 | 0.02 |
| | 335.0 | <0.01 | 0.02 | 0.05 | <0.1 | 0.7 | <0.01 | <0.01 | 0.002 | 1 | 0.02 |
| | 336.0 | <0.01 | <0.01 | 0.06 | <0.1 | 0.5 | <0.01 | <0.01 | 0.004 | 2 | 0.02 |
| | 337.0 | <0.01 | <0.01 | 0.06 | <0.1 | 1.0 | <0.01 | <0.01 | 0.003 | 2 | 0.02 |
| | 338.0 | <0.01 | <0.01 | 0.06 | <0.1 | 0.9 | <0.01 | <0.01 | 0.003 | 2 | 0.02 |
| | 339.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.5 | <0.01 | <0.01 | 0.003 | 1 | 0.02 |
| | 340.0 | <0.01 | 0.01 | 0.05 | <0.1 | 0.6 | <0.01 | <0.01 | 0.003 | 1 | 0.02 |
| | 341.0 | <0.01 | 0.01 | 0.04 | <0.1 | 0.3 | <0.01 | 0.01 | 0.003 | 3 | 0.03 |
| | 342.0 | <0.01 | <0.01 | 0.06 | <0.1 | 1.2 | <0.01 | 0.03 | 0.003 | 3 | 0.02 |
| | 343.0 | <0.01 | <0.01 | 0.05 | <0.1 | 0.4 | <0.01 | <0.01 | 0.003 | 4 | 0.02 |

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

KWPB

| INTERVAL (m) FROM | TO | RECOVERY m | % | DESCRIPTION | FORM. |
|---|---|---|---|---|---|
| | | | | 333.2 - 333.3 White mica-enriched. | |
| | | | | This section 331.4m. | |
| | | | | Sharp contact 45° to c.a., no apparent chill zone. | |
| | | | | | |
| 360.9 | 366.8 | | | GRANITE | |
| | | | | Pale grey, medium to coarse grained, consisting of equigranular | |
| | | | | feldspars and quartz, with ~5% black biotite. Plagioclase generally | |
| | | | | yellow and pale green (argillized and sericitized). Biotite evenly | |
| | | | | distributed in places, concentrated in patchy segregations elsewhere, | |
| | | | | partly chloritized. Broken along few joints, some slickensided and | |
| | | | | clayey. | |
| | | | | | |
| | | | | 363.2 Micropegmatite vein (VCA 35°) followed by fine grained | |
| | | | | granite. | |
| | | | | | |
| | | | | 363.8 - 363.9 Greisenized granite - quartz, muscovite, minor pyrite | |
| | | | | - enclosing a central vein of quartz, pyrite and | |
| | | | | fluorite, VCA 70°. | |
| | | | | | |
| | | | | 365.0 - 365.7 Fine grained granite, greisenized with minor pyrite | |
| | | | | 365.5 - 365.6, feldspars weakly sericitized elsewhere. | |
| | | | | Gradational (?) upper contact, sharp lower one. | |
| | | | | | |
| 366.8 | 387.2 | | | WEAKLY ALTERED GRANITE | |
| | | | | Medium grained, original mineral composition similar to above but | |
| | | | | feldspars sericitized or argillized, biotite converted to chlorite. | |
| | | | | Minor disseminated tourmaline. Broken along numerous, variously | |
| | | | | oriented joints, some slickensided and clayey. | |
| | | | | | |
| | | | | 366.8 - 376.2 Partly greisenized. Greisen comprising quartz, | |
| | | | | muscovite, minor tourmaline and pyrite, enclosing | |
| | | | | central veins with VCA 70-80° and variously consisting | |
| | | | | of quartz, pyrite, arsenopyrite and tourmaline. Greisen | |
| | | | | is ~30% of total. | |
| | | | | | |
| | | | | 376.2 - 387.2 Includes few, thin ( ≤15cm thick) greisen zones | |
| | | | | similar to above but without central veins. | |
| | | | | This section 11½m. | |
| | | | | | |
| | | | | END OF HOLE 387.2m. | |

| FROM | TO | % Sn TOTAL | % Sn ACID SOL | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 332.0 | 334.0 | <0.01 | 0.01 | 0.04 | <0.1 | <0.1 | <0.01 | <0.01 | 0.001 | 1 | 0.03 |
| | 345.0 | <0.01 | 0.01 | 0.06 | <0.1 | 0.2 | <0.01 | <0.01 | 0.002 | 1 | 0.03 |
| | 346.0 | <0.01 | 0.01 | 0.07 | <0.1 | 0.4 | <0.01 | <0.01 | 0.001 | 1 | 0.02 |
| | 347.0 | <0.01 | <0.01 | 0.05 | <0.1 | 0.8 | <0.01 | <0.01 | 0.002 | 1 | 0.02 |
| | 348.0 | <0.01 | 0.01 | 0.06 | <0.1 | 0.7 | <0.01 | <0.01 | 0.001 | 1 | 0.02 |
| | 349.0 | <0.01 | <0.01 | 0.05 | <0.1 | 2.3 | <0.01 | <0.01 | 0.016 | 3 | 0.03 |
| | 350.0 | 0.07 | <0.01 | 0.07 | <0.1 | 0.9 | <0.01 | <0.01 | 0.001 | 2 | 0.02 |
| | 351.0 | 0.01 | 0.01 | 0.06 | <0.1 | 1.5 | <0.01 | <0.01 | 0.002 | 3 | 0.02 |
| | 352.0 | 0.01 | 0.01 | 0.05 | <0.1 | 0.8 | <0.01 | <0.01 | 0.002 | 2 | 0.02 |
| | 353.0 | <0.01 | 0.01 | 0.07 | <0.1 | 1.6 | <0.01 | <0.01 | 0.001 | 2 | 0.03 |
| | 354.0 | 0.01 | <0.01 | 0.07 | <0.1 | 1.2 | <0.01 | <0.01 | 0.002 | 2 | 0.02 |
| | 355.0 | <0.01 | <0.01 | 0.08 | <0.1 | 0.8 | <0.01 | 0.01 | 0.001 | 2 | 0.02 |
| | 356.0 | <0.01 | 0.01 | 0.05 | <0.1 | 1.2 | <0.01 | <0.01 | 0.001 | 1 | 0.02 |
| | 357.0 | <0.01 | 0.02 | 0.06 | <0.1 | 2.1 | <0.01 | <0.01 | 0.024 | 2 | 0.03 |
| | 358.0 | <0.01 | 0.01 | 0.06 | <0.1 | 1.4 | <0.01 | <0.01 | 0.006 | 1 | 0.03 |
| | 359.0 | <0.01 | <0.01 | 0.05 | 0.1 | 1.2 | <0.01 | <0.01 | 0.003 | 1 | 0.03 |
| | 360.0 | <0.01 | 0.01 | 0.07 | 0.1 | 1.8 | <0.01 | <0.01 | 0.003 | 1 | 0.03 |
| | 361.0 | <0.01 | <0.01 | 0.05 | <0.1 | 0.1 | <0.01 | <0.01 | 0.003 | <1 | 0.03 |
| | 362.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.8 | <0.01 | <0.01 | 0.006 | <1 | 0.03 |
| | 363.0 | <0.01 | <0.01 | 0.05 | <0.1 | 0.1 | <0.01 | <0.01 | 0.003 | <1 | 0.02 |
| | 364.0 | <0.01 | 0.01 | 0.03 | <0.1 | <0.1 | <0.01 | <0.01 | 0.003 | <1 | 0.02 |
| | 365.0 | <0.01 | <0.01 | 0.03 | <0.1 | <0.1 | <0.01 | <0.01 | 0.004 | 1 | 0.02 |
| | 366.0 | <0.01 | <0.01 | 0.04 | <0.1 | <0.1 | <0.01 | <0.01 | 0.003 | <1 | 0.03 |
| | 367.0 | <0.01 | <0.01 | 0.04 | <0.1 | <0.1 | <0.01 | <0.01 | 0.003 | <1 | 0.03 |
| | 368.0 | 0.01 | <0.01 | 0.06 | <0.1 | 0.7 | <0.01 | <0.01 | 0.003 | 1 | 0.02 |
| | 369.0 | <0.01 | <0.01 | 0.04 | <0.1 | <0.1 | <0.01 | <0.01 | 0.003 | <1 | 0.03 |
| | 370.0 | <0.01 | <0.01 | 0.04 | <0.1 | 0.1 | <0.01 | <0.01 | 0.001 | <1 | 0.03 |
| | 371.0 | <0.01 | <0.01 | 0.05 | <0.1 | 0.1 | <0.01 | <0.01 | 0.003 | <1 | 0.03 |
| | 372.0 | 0.01 | <0.01 | 0.05 | <0.1 | 0.3 | <0.01 | <0.01 | 0.003 | <1 | 0.03 |
| | 373.0 | <0.01 | <0.01 | 0.04 | <0.1 | 1.0 | <0.01 | <0.01 | 0.003 | 1 | 0.03 |
| | 374.0 | 0.01 | <0.01 | 0.04 | <0.1 | 1.3 | <0.01 | <0.01 | 0.003 | 1 | 0.02 |
| | 375.0 | <0.01 | <0.01 | 0.05 | <0.1 | 0.1 | <0.01 | <0.01 | 0.001 | <1 | 0.03 |
| | 376.0 | 0.01 | <0.01 | 0.07 | <0.1 | 0.9 | 0.03 | 0.01 | 0.001 | 2 | 0.03 |
| | 377.0 | <0.01 | <0.01 | 0.05 | 0.1 | 0.3 | <0.01 | 0.01 | 0.003 | <1 | 0.03 |

RENISON LIMITED

PAGE

# DIAMOND DRILL RECORD

HOLE NUMBER : SD14

LOGGED BY : P.R.

| INTERVAL (m) FROM | INTERVAL (m) TO | RECOVERY m | RECOVERY % | DESCRIPTION | FORM. | % Sn. FROM | % Sn. TO | % Sn. TOTAL | % Sn. ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % $WO_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | CORE RECOVERY | | | | | | | |
| | | | | | | | | REC. | % | | | | | | | | |
| | | | | | | 0.0 | 3.0 | 1.9 | 63 | | Core recovery over hole = 374.3m (96.6%) | | | | | | |
| | | | | | | 3.0 | 4.3 | 2.0 | 77 | | | | | | | | |
| | | | | | | 4.3 | 7.3 | 2.9 | 93 | | | | | | | | |
| | | | | | | 7.3 | 49.3 | 42.0 | 100 | | | | | | | | |
| | | | | | | 49.3 | 52.3 | 2.7 | 90 | | | | | | | | |
| | | | | | | 52.3 | 55.3 | 2.8 | 93 | | | | | | | | |
| | | | | | | 55.3 | 58.3 | 2.8 | 93 | | | | | | | | |
| | | | | | | 58.3 | 61.3 | 2.7 | 90 | | | | | | | | |
| | | | | | | 61.3 | 64.3 | 1.6 | 53 | | | | | | | | |
| | | | | | | 64.3 | 67.3 | 2.4 | 80 | | | | | | | | |
| | | | | | | 67.3 | 70.3 | 2.2 | 73 | | | | | | | | |
| | | | | | | 70.3 | 154.3 | 84.0 | 100 | | | | | | | | |
| | | | | | | 154.3 | 157.3 | 2.9 | 97 | | | | | | | | |
| | | | | | | 157.3 | 177.0 | 19.7 | 100 | | | | | | | | |
| | | | | | | 177.0 | 178.2 | 1.0 | 83 | | | | | | | | |
| | | | | | | 178.2 | 181.2 | 1.8 | 60 | | | | | | | | |
| | | | | | | 181.2 | 184.2 | 2.6 | 87 | | | | | | | | |
| | | | | | | 184.2 | 187.2 | 2.9 | 97 | | | | | | | | |
| | | | | | | 187.2 | 241.2 | 54.0 | 100 | | | | | | | | |
| | | | | | | 241.2 | 244.2 | 2.9 | 97 | | | | | | | | |
| | | | | | | 244.2 | 247.2 | 2.5 | 83 | | | | | | | | |
| | | | | | | 247.2 | 256.2 | 9.0 | 100 | | | | | | | | |
| | | | | | | 256.2 | 259.2 | 2.7 | 90 | | | | | | | | |
| | | | | | | 259.2 | 262.2 | 2.6 | 87 | | | | | | | | |
| | | | | | | 262.2 | 265.2 | 2.9 | 97 | | | | | | | | |
| | | | | | | 265.2 | 268.2 | 3.0 | 100 | | | | | | | | |
| | | | | | | 268.2 | 271.2 | 2.2 | 73 | | | | | | | | |
| | | | | | | 271.2 | 274.2 | 1.0 | 33 | | | | | | | | |
| | | | | | | 274.2 | 277.2 | 2.7 | 90 | | | | | | | | |
| | | | | | | 277.2 | 280.2 | 2.8 | 93 | | | | | | | | |
| | | | | | | 280.2 | 310.2 | 30.0 | 100 | | | | | | | | |
| | | | | | | 310.2 | 313.2 | 2.8 | 93 | | | | | | | | |
| | | | | | | 313.2 | 322.2 | 9.0 | 100 | | | | | | | | |
| | | | | | | 322.2 | 325.2 | 2.5 | 83 | | | | | | | | |
| | | | | | | 325.2 | 328.2 | 3.0 | 100 | | | | | | | | |
| | | | | | | 328.2 | 331.2 | 2.9 | 97 | | | | | | | | |
| | | | | | | 331.2 | 387.2 | 56.0 | 100 | | | | | | | | |

SCALE:

# DIAMOND DRILL HOLE PLOT

HOLE No.:

0300

RENISON LIMITED

HOLE NO. SD14

M. BOLTON

MAGNETIC SUSCEPTIBILITY X $10^{-6}$ C.G.S. UNITS

| DEPTH | MS | DEPTH | MS | DEPTH | MS | DEPTH | MS | DEPTH | MS | DEPTH | MS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0-114 | <100* | -194 | 32000 | -209 | 6400 | -224 | 1000 | -255 | <100* | -336 | <100* |
| -115 | 1900 | -195 | 41000 | -210 | 27000 | -231 | <100* | -256 | 300 | -337 | 200 |
| -116 | 400 | -196 | 49000 | -211 | 5000 | -232 | 1000 | -265 | <100* | -338 | <100 |
| -117 | 400 | -197 | 1800 | -212 | 4400 | -233 | 1900 | -278 | 100* | -339 | 200 |
| -123 | <100* | -198 | 18000 | -213 | 2900 | -234 | 3200 | -279 | 200 | -340 | 500 |
| -124 | 400 | -199 | 40000 | -214 | 1600 | -235 | 300 | -280 | 200 | -341 | <100 |
| -185 | <100* | -200 | 9000 | -215 | 300 | -236 | 1200 | -281 | 300 | -342 | 200 |
| -186 | 300 | -201 | 5800 | -216 | 400 | -237 | 1400 | -282 | <100 | -347 | <100* |
| -187 | 400 | -202 | 10000 | -217 | 7200 | -239 | <100* | -283 | 200 | -348 | 400 |
| -188 | 1200 | -203 | 12000 | -218 | 1200 | -242 | 100* | -308 | <100* | -360 | <100 |
| -189 | 3200 | -204 | 33000 | -219 | 100 | -245 | <100* | -309 | 200 | -361 | 800 |
| -190 | 4000 | -205 | 75000 | -220 | 600 | -246 | 300 | -310 | 1600 | -387 | <100* |
| -191 | 6100 | -206 | 45000 | -221 | 500 | -247 | <100 | -311 | 8300 | | |
| -192 | 12000 | -207 | 18000 | -222 | 500 | -248 | 300 | -330 | <100* | | |
| -193 | 1200 | -208 | 13000 | -223 | 100 | -249 | 500 | -331 | 400 | | |

* Same result for more than 1 metre.

60 032

SCALE :

# RENISON LIMITED
# DIAMOND DRILL HOLE PLOT

HOLE No. : BD 14

PETROGRAPHIC DESCRIPTIONS
(C.M.S. REPORT 81/1/41)

| SAMPLE NO. | CLASSIFICATION - COMPOSITION | FABRIC | ACCESSORIES | COMMENTS |
|---|---|---|---|---|
| 5.4m (T.S. 35917) | Quartz-Tourmaline Rock. Quartz and olive-brown tourmaline (schorl) in varying proportions, subordinate to minor dravite, disseminated muscovite flakes. | Vague contorted to *brecciated, relict pelitic* banding. Fine-grained. | Thinly disseminated *leucoxenic* rutile. Sparse relict detrital zircon, rutile. | Tourmalinised, silicified pelitic sediment. Muscovite is porphyro-blastic in part ("tourmalinised mica hornfels"). |
| 36.9m | Quartz-Tourmaline Rock. Quartz and olive-brown schorl, subordinate dravite, subordinate, semi-sericitic muscovite. Patchy orange (*titaniferous schorl*). | Hornfelsic quartz, weakly poikiloblastic muscovite. *Fine- to medium-grained.* | Thinly disseminated leucoxenic secondary rutile. Sparse relict detrital zircon. | Marginally hornfelsed, extensively tourmalinised argillaceous quartzite with relatively altered shaly interbeds. Minor microfaulting. |
| 61.6m | Quartz-Kaolin Rock. Fine subpolygonal quartz and leucoxene-stained kaolin in near-equant proportions. Disseminated ?marcasite (after pyrrhotite). | Contorted relict bedding. Semi-pervasive mica-derived structures in kaolin. | Rare pyrite subhedra. Thinly disseminated fine silt-sized, rounded zircons. | Degraded mica hornfels (± cordierite) developed in argillaceous quartzose fine sandy siltstone, silty shale intercalations. Affinities with 5.4m, 36.9m. |
| 80.1m | Spotted Hornfels. Coarse retrogressed (muscovitised) cordierite poikiloblaste with interstitial quartz, titaniferous biotite. Disseminated colour-variable schorl, pyritised pyrrhotite. | Ovoid, millimetric blasts, weak preferred orientation discordant to relict bedding. | Patchy chlorite (after biotite), sparse sphene, rare cloudy andalusite. | Retrogressively altered cordierite-mica hornfels; mild tectonic over-print. Primarily a weakly bedded silty shale. |
| 103.7m | Spotted Hornfels. Quartz and Ti-biotite, subordinate to minor albite, disseminated sericitised/kaolinised cordierite poikiloblaste, sparse kaolinised andalusite porphyroblasts. | Relict, sub- to millimetric-scale sedimentary banding. Medium-grained, hornfelsic. | Disseminated to conspicuous dravite; sparse pyritised pyrrhotite disseminations, films. | Affinities with 80.1m, but slightly higher grade in albite-epidote hornfels facies. Relatively conspicuous metasomatic dravite. Psammopelitic. |
| 112.3m | Spotted Hornfels. Quartz and Ti-biotite with disseminated to semi-massive, extensively sericitised cordierite, subordinate ?andalusite. Disseminated schorl. | Medium-grained, hornfelsic, with faint relict sedimentary banding. | Patchy chlorite (after biotite), fresh cordierite, minor trace untwinned albite. | Porphyroblasts preferentially retrogressed. Close affinities with 80.1m, 103.7m. Primarily a weakly shale-parted quartzose psammite. |
| 129.7m | Tremolitic Hornfels. *Quartz and cordierite with patchy* tremolite, subordinate to minor Ti-phlogopite, sporadic microfilms of pyrite (after pyrrhotite). | *Fine- to medium-grained* hornfelsic. Faint relict sub- to millimetric-scale relict bedding. | Disseminated dravite, schorl, extremely fine rutile. Traces cummingtonite, sideritic carbonate. | Textural features indicate tremolitisation (+ traces pyrrhotite) pre-dated hornfelsing/ minor cordierite-siderite veinlets/ pyritisation of pyrrhotite. |
| 153.2m | Talc-Tremolite Rock. Fine-grained tremolite as sparse *relics in near-massive talc. Patchy quartz, minor* cloudy, partly degraded siderite. | Semi-schistose with boudinaged quartz veinlets. | Degraded pale phlogopite (partly replaced by talc). Rare apatite. | Fabric consistent with a sheared/steatitised tremolite (-quartz-phlogopite) vein. |
| 182.1m (T.S. 35925) | Talc-Tremolite Rock. Talc with patchy corroded relics of tremolite, irregular zones chlorotised/steatitised phlogopite, minor quartz, disseminated apatite. | Crude relict banding disrupted by degraded phlogopitic veinlets (± quartz). | Traces cloudy sideritic carbonate. Minor traces ultrafine rutile. | Thoroughly steatitised, phlogopite-veined tremolite rock of altered carbonate facies character (devoid of clastic, altered ultramafic features). |
| 194.7m (T.S.,P.S. 35926) | "Serpentinite". Antigorite with conspicuous magnetite, extensively pyritised pyrrhotite. | Crudely banded. Opaques interstitial to "Olivine" - derived, mesh-textured antigorite. | Traces ankeritic carbonate. | No definite altered ultramafic features, although clearly a serpentinised olivine- or "humite" rock. No detectable Sn-phases. |

SCALE :

RENISON LIMITED

# DIAMOND DRILL HOLE PLOT

HOLE No. : SD 14

PETROGRAPHIC DESCRIPTIONS

(C.M.S. REPORT 81/1/41)

| SAMPLE NO. | CLASSIFICATION - COMPOSITION | FABRIC | ACCESSORIES | COMMENTS |
|---|---|---|---|---|
| 196.8m (T.S., P.S. 35927) | "Serpentinite". Antigorite with corroded relics of humite, magnetite-stained serpentinous ankerite, pseudomorphs of pyroxene, conspicuous "primary" magnetite. Patchy late dolomite veining. | Similar to 194.7m, but with relics of coarse, lath-like humite. | Traces pyrite. | Close affinities with 194.7m. Primarily a humite-pyroxene (?diopside) rock. No detectable Sn-phases. |
| 200.7m (T.S., P.S. 35928) | Scapolite-Chlorite-Magnetite Rock. Near -isotropic chlorite with disseminated to semi-massive scapolite (dipyre), patchy fluorite, serpentinite. Abundant magnetite, patchy sulphide. | Irregular to crudely banded, fine-grained. Serpentine-rich sheers. Poikilitic scapolite. | Intersecting films of ankeritic carbonate. Locally conspicuous pyrrhotite, chalcopyrite, pageite. | Late scapolitic alteration of relatively opaque-rich "serpentinite". No detectable cassiterite. Pageite as ultrafine acicular bundles intimately intergrown with serpentine. |
| 202.2m (T.S., P.S. 35929) | Steatitised "Serpentinite". Serpentine and Mg-chlorite with conspicuous, closely intergrown magnetite, patchy talc, tremolite, corroded relics of clinohumite. | Granular relict humite with fine acicular opaques. Semi-schistose serpentine-talc-tremolite. | Minor corroded relics diopside, traces arsenopyrite. Minor traces pageite, ?cassiterite. | Pageite as rare, subradiating, ultra-fine acicular clots (cim. 200.7m). ?Cassiterite as sparse <2 u diameter needles in talc aggregates. |
| 209.3m (T.S., P.S. 35930) | "Serpentinite". Antigorite with patchy, chloritised phlogopite, sporadic flakes brucite, disseminated spongy aggregates magnetite, semi-massive films of dark sphalerite. | Incipiently schistose with patchy, faint relict "olivine" and pyroxene textures. | Minor traces ankeritic carbonate, microscopic pyritised pyrrhotite films. | Originally a fine granular "olivine-pyroxene" rock (?humite-diopside), pervasively serpentinised. No detectable Sn-phases. |
| 215.9m | Antigoritic Marble. Cloudy calcite with abundant clots antigorite, brucite, sparsely disseminated fine-grained magnetite. | Millimetric scale banded, medium-grained, granular, with olivine-derived structures in serpentine. | Rare late magnetite veinlets. | Mildly stressed. Serpentinised forsterite or humite marble. |
| 237.3m (T.S., P.S. 35932) | Talc-Carbonate-Phlogopite Rock. Calcite with subordinate, closely intergrown talc, disseminated coarse flakes pale phlogopite, disseminated fibrous acicular magnetite. | Weakly banded. Similar to 215.9m, but coarser-grained. | Patchy corroded relics olivine, patchy antigorite (corroded, replaced by talc), Ilvaite, hematite. | Affinities with 215.9m; "olivine" appears to be forsterite, but poorly resolved due sizing, habit. Ilvaite locally conspicuous, hematite after magnetite. |
| 237.8m | Phlogopite-Carbonate Rock. Calcite with subordinate closely intergrown talc, disseminated coarse flakes pale phlogopite, disseminated fibrous acicular magnetite. | Coarse, random phlogopite interspersed with silicate semi-pseudomorphous carbonate. | Ultrafine secondary (?hydro) garnet, minor traces antigorite. | Vague textural affinities with 196.8m suggest carbonation of phlogopite-humite-diopside rock. Weakly stressed. |
| 252.4m (T.S. 35934) | Graphitic Skarn. Cloudy diopside, phlogopite, subordinate grossular-andradite. Semi-pervasive late poikilitic epidote-clinozoisite; conspicuous fine graphite. | Relict, sub- to millimetric banding partly obliterated by epidotisation. | Patchy hornfelsic quartz, relict tremolite-actinolite (corroded by phlogopite). | Carbonaceous calc-pelite, skarnised to garnet-diopside-tremolite assemblage, subsequently epidotised/phlogopitised. |
| 309.5m (T.S. 35935) | Altered Skarn. Diopside and thoroughly serpentinised ?humite, minor garnet. Patchy talc (?after tremolite). Disseminated pyritised pyrrhotite, minor sphalerite. | Medium-grained, granular with relict sub-to millimetric, microfolded banding. | Traces graphite. | Affinities with 252.4m, but with metasomatic assemblage analogous to 194.0 - 210.0m zone. |
| 331.5m | Quartz-Mica Hornfels. Quartz and muscovite in varying proportions with conspicuous colour-variable schorl, minor dravite. Disseminated clots of ankeritic carbonate. | Medium-grained, hornfelsic with relict psammopelitic banding. | Minor traces pyrrhotite. Sparse relict detrital zircon, apatite. | Affinities with 5.4 - 112.3m zone. Hornfelsed, tourmalinised, shale-parted, quartzose, argillaceous siltstone/fine sandstone. |
| 373.4m (T.S. 35937) | Muscovite Quartzite. Overgrown relict detrital quartz with abundant intergranular muscovite, minor sericite. Sparse pyritised pyrrhotite, chalcopyrite disseminations, arsenopyrite films. | Relict medium sandy clastic fabric. | Minor schorl, dravite. Ankeritic carbonate. Sparse relict detrital zircon. | Greisened orthoquartzite. Arsenopyrite introduced in veinlets with carbonate, quartz, minor schorl. |

Almost certainly wrong - could possibly be a greisenized xenolith but this is unlikely given the general paucity of xenoliths.