

W. D. G. Co.
Dec/83

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED DIAMOND DRILL LOG

| | | | | | |
|--------------|---------------|------------------|----------------|-------------|------------------|
| Project | WJV (IGOR) | Grid Coordinates | 34+01 N 0+04 E | Azimuth | 270° |
| Hole No. | 821027 | Elevation | 1333 m | Total Depth | 105.4 m (346.0') |
| Date Started | 27 June, 1982 | Date Completed | 29 June, 1982 | Logged by | D. Heberlein |

| Sample No. | % Cu | ppm U | ppm Co | CPS | Core Recovery | Depth (feet) | Geology |
|------------|------|-------|--------|-----|---------------|--------------|---|
| | | | | | | 10 | Overburden |
| | | | | | | 20 | |
| 24.0 | | | | | | | |
| M02024 | 0.06 | 22.0 | 117 | 75 | 45% | 30 | Fault Zone In Clast-Deficient Breccia - pyrite partially oxidized to limonite (usually goethite) which fills cavities (boxworks). Malachite and pyrolusite occur in trace amounts as coatings. Py 1%, Cp tr |
| 36.0 | | | | | | | |
| M02025 | 0.05 | 1.4 | 151 | 70 | | 40 | |
| 43.0 | | | | | | | |
| M02026 | 0.07 | 3.3 | 380 | 70 | | | Chloritic, Clast-Deficient Breccia - chlorite is pervasively disseminated and concentrated in irregular patches. Carbonate alteration pervasive and in micro-veinlets. Pyrite and chalcopyrite finely disseminated throughout. Hematite occurs as magnetite pseudomorphs. |
| 46.0 | | | | | | | |
| M02027 | 0.02 | 1.5 | 345 | 65 | 87% | 50 | |
| 50.0 | | | | | | | |
| M02028 | 0.04 | 0.5 | 69 | 80 | | | Homoclast Breccia - with intense carbonate alteration. Quartzite clasts are rare. The whole interval is highly fractured. Hematite replaces small, euhedral magnetites. |
| 55.0 | | | | | | | |
| M01510 | 0.03 | 9.4 | 81 | 60 | 80% | 60 | |
| 60.0 | | | | | | | |
| M01511 | 0.13 | 8.9 | 154 | 75 | | | |

Project WJV

Page 1 of 5

Hole 821027

091445

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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| Sample No. | % Cu | ppm U | ppm Co | CPS | Core Recovery | Depth (feet) | Geology |
|-----------------|------|-------|--------|---------------------------|---------------|--------------|--|
| M01511 70.0 | 0.13 | 8.9 | 154 | 83 70 80 90 | 80 % | 70 | Chloritic, Clast-Deficient Breccia - intense chlorite and carbonate alteration with pervasive fine grained hematite. Rare microveins of quartz crosscut foliation. Py tr, Cp tr, He 20%, CB 3%, Cl 30% |
| M02029 73.0 | 0.04 | 0.7 | 160 | 70 80 110 | 38 % | | |
| M02030 78.0 | 0.12 | 5.4 | 510 | 70 115 | | | |
| M01512 81.0 | 0.11 | 39.0 | 620 | | 85 % | 80 | Clast-Deficient Breccia - Oxide breccia with significant amounts of pyrite that occurs in streaks parallel to foliation and also blebs interstitial to magnetite pseudomorphs. Hematite makes up 50% of the rock. Much pyrite has been leached out to form box-works. Azurite coatings are visible on some fractures. Py 20%, Cp tr, He 50%, CB 3% |
| M02031 83.0 | 0.14 | 3.3 | 680 | 350 | | | |
| M02032 | 0.08 | 20.0 | 465 | 400 500 700 2100 | | 90 | |
| | | | | 800 | | | |
| | | | | 500 | | 100 | |
| M02033 105.0 | 0.16 | 112.0 | 680 | 900 500 550 2000 | 100 % | 110 | Total amount of hematite decreases downwards. 112' to 117' is very radioactive. This zone is highly oxidized; botryoidal goethite and fibrous limonite common in cavities. Py 20%, Cp tr, He 20%, CB 3% |
| M02034 116.0 | | | | 500 600 500 | | | |
| M02035 119.0 | 0.18 | 82.0 | 740 | 400 1050 | 94 % | 120 | |
| M02036 125.0 | 0.64 | 114 | 800 | 400 1500 | | | |
| M02037 | 0.13 | 5.7 | 530 | 900 800 | | | |
| | | | | 500 300 | | | |
| M02038 129.5 | 0.16 | 35.0 | 555 | 200 | 52 % | 130 | |
| M02039 132.5 | | | | 600 | | | |
| M02040 134.0 | 0.09 | 7.0 | 550 | 425 150 180 200 | | | |
| | 0.13 | 46.0 | 585 | 100 150 | | | |

Project

WJV

Page 2 of 5

Hole 821027

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DIAMOND DRILL LOG

| Sample No. | % Cu | ppm U | ppm Co | CPS | Core Recovery | Depth (feet) | Geology |
|-----------------|------|-------|--------|-------------|---------------|--------------|--|
| 138.5 M02041 | 0.05 | 63.0 | 440 | 1150 200 | | 140 | ▲ Clast-Deficient Breccia - as previously described. Azurite coatings still present on fractures. ▲ Py 5-20%, Cp tr, He 20-90%, Az tr |
| 146.0 M02042 | 0.05 | 3.6 | 610 | | 52% | 150 | |
| 152.0 M02043 | 0.03 | 1.3 | 500 | | | | |
| 157.0 M02044 | 0.06 | 2.4 | 710 | | | | |
| 159.0 M02045 | 0.05 | 4.4 | 565 | 110 | 46% | 160 | ▲ Heteroclast Breccia - moderately chloritized matrix with tan quartzite fragments. Fine grained hematite occurs in patches. ▲ Py <1%, He 1% |
| 163.0 M02046 | 0.06 | 6.1 | 430 | | 93% | | |
| 167.0 M02047 | 0.01 | 2.1 | 27 | | 100% | 170 | |
| 171.0 M02048 | 0.02 | 6.2 | 29 | 100 140 | 100% | | |
| 178.0 M02049 | 0.01 | 13.0 | 26 | 100 | | 180 | ▲ Clast-Deficient Breccia - pink coloured rock, hardness 4-5. Possibly albitized with disseminated Mg. Some with core replaced by Cp. Mg replaced with He adjacent to microveins. ▲ Heteroclast Breccia - as previously described. Chlorite and albite are main alteration minerals. Chlorite occurs in veins, whereas albite is pervasive as patches in matrix. Hematite reduced to trace quantities in matrix. Py <1% |
| 180.5 M02050 | 0.03 | 16.0 | 198 | 150 | 100% | | |
| 185.0 M02051 | 0.01 | 5.8 | 93 | 100 | | 190 | |
| 190.0 M01513 | 0.01 | 0.8 | 136 | | | | |
| 191.5 M02052 | | | | | | | ▲ Heteroclast Breccia - carbonate alteration with zones of magnetite overgrowing and surrounding pink quartzite fragments. Magnetite crystals partially replaced by chalcopyrite and pyrite. Breccia fragments variably replaced by tan coloured carbonate. Chlorite is pervasive throughout the matrix. Gypsum seen in microveins. Barite also present in veins and with the carbonate in the matrix. ▲ Py 1-2%, Cp <1%, Mg <10%, CB 5-10% |
| 195.0 M02053 | 0.23 | 1.4 | 106 | 70 80 | | 200 | |
| 200.0 M02054 | 0.06 | 0.6 | 48 | | 100% | | |
| 205.0 M01514 | 0.03 | 3.0 | 39 | 70 | | 210 | |
| 210.0 M01515 | 0.02 | 15.0 | 46 | | | | |

Project

WJV

Page 3 of 5

Hole 821027

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
DIAMOND DRILL LOG

| Sample No. | % Cu | ppm U | ppm Co | CPS | Core Recovery | Depth (feet) | Geology |
|--------------|------|-------|-------------------------|-------------------|---------------|--------------|---|
| MO1515 214.0 | 0.02 | 15.0 | 46 | | | | Heteroclast Breccia - as described above. |
| MO1516 217.0 | 0.07 | 4.0 | 88 | 70 | | | |
| MO1518 222.0 | 0.02 | 8.5 | 149 | 85 | 100% | 220 | |
| MO1519 229.0 | 0.06 | 170.0 | 610 | 70 | | | |
| MO2055 231.0 | 0.25 | 6.3 | 450 | | | 230 | Homoclast Breccia - with occasional, subangular, quartzite fragments in a pale green-grey matrix of altered argillite. Chalcopyrite occurs within pink barite veins (1-2 cm in diameter). At 246' sooty pitchblende occurs in a tan carbonate barite microvein. Py ½-5%, Cp <1%, Mg <5%, Pitchblende tr |
| MO1520 234.0 | | | | 80 | 92% | | |
| MO2056 236.0 | 0.10 | 4.5 | 820 | | | | |
| MO2057 240.0 | 0.31 | 1.3 | 655 90 400 120 | 150 115 850 | | 240 | |
| MO2058 246.0 | 0.52 | 27.0 | 800 | | | | Clast-Deficient Breccia - 'dyke' crosscutting the homoclast breccia. Mineralogy dominated by magnetite which occurs as euhedral crystals up to 15 mm across. Chalcopyrite is disseminated throughout. Py tr, Cp 5%, Mg 20% |
| MO2059 249.0 | 0.12 | 116.0 | 830 | | | | |
| MO2060 251.0 | 0.44 | 12.0 | 650 | 80 | 97% | 250 | |
| MO1521 256.0 | 0.10 | 20.0 | 445 | | | | |
| MO1522 261.0 | 0.64 | 24.0 | 395 90 80 | 70 80 | | 260 | Homoclast Breccia - as described above. |
| MO1523 268.0 | 0.12 | 16.0 | 380 | 80 | | | |
| MO2061 271.0 | 0.48 | 37.0 | 470 | 200 | | 270 | |
| MO2062 276.0 | 0.22 | 2.7 | 260 | 100 | 97% | | |
| MO2063 279.0 | 0.06 | 2.1 | 171 | | | | Homoclast Breccia - as described above but with more carbonate in the matrix. Barite occurs in veins (<10 mm across). Disseminated magnetite partially replaced by sulphides. Py <1%, Cp <½%, Mg 3%, CB 10%, Ba 3% |
| MO2064 285.0 | 0.38 | 4.0 | 162 | 70 80 | | 280 | |

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| Sample No. | % Cu | ppm U | ppm Co | CPS | Core Recovery | Depth (feet) | Geology |
|-----------------|------|-------|------------------------|----------|---------------|--------------|---|
| M02065 290.0 | 0.21 | 6.1 | 192 80 100 80 | 90 | | 290 | Homoclast Breccia - as described on previous page. Py tr, Cp <1% |
| M02066 295.0 | 0.12 | 14.0 | 175 | 80 | 97% | | |
| M02067 302.0 | 0.04 | 16.0 | 127 200 | 85 | | 300 | |
| M02068 305.0 | 0.78 | 36.0 | 230 250 90 | 80 | | | |
| M02069 309.0 | 0.10 | 7.6 | 156 | 70 80 | 88% | 310 | |
| M02070 313.0 | 0.03 | 65.0 | 73 500 100 | 75 | | | |
| M02071 317.0 | 0.03 | 2.8 | 42 90 | 70 | 71% | | Chloritized Fault Zone - with disseminated magnetite. Chlorite alteration is intense. This seems to be peripheral to an albitic zone in and adjacent to the fault. Chalcopyrite occurs in quartz microveins. Py <5%, Cp <1%, Mg 5%, Cl 10%, Ab 1% |
| M02072 323.0 | 0.22 | 6.6 | 173 | 70 | 100% | 320 | |
| M01524 325.0 | 0.06 | 88.0 | 47 | | | | Heteroclast Breccia - albitized matrix with disseminated pyrite and microveins of magnetite and carbonate. Between 330-339' patches of intense albitic alteration preferentially replace quartzite fragments. Py 3%, Cp <1%, Mg 1%, Ab 20% |
| M02073 328.0 | 0.04 | 0.8 | 61 | | 76% | | |
| M02074 331.5 | 0.23 | 2.5 | 69 | | | 330 | |
| M02075 337.0 | 0.21 | 1.8 | 40 | 70 | 100% | | |
| M02076 341.0 | 0.12 | 2.3 | 88 | | | 340 | |
| M02077 346.0 | 0.04 | 1.3 | 34 | | 90% | | |
| | | | | | | 350 | End of Hole. |

Project

WJV

Page 5 of 5

Hole 821027