

RENISON LIMITED

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E.L. 42/71

ARGENT - GRAND PRIZE AREA

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ANNUAL REPORT 1980/81

**OPEN FILE**

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AMG REFERENCE POINTS ADDED

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1. SUMMARY

Exploration during the year was mainly by way of diamond drilling. 3 holes were completed in the Argent area and 2 at Grand Prize. In addition, a surface geological mapping project was completed in the Grand Prize area.

Expenditure for the year was \$82,031 on the Argent area and \$108,834 at Grand Prize.

One Grand Prize hole intersected a very thick zone of low grade mineralisation, while the remaining four holes were economically disappointing. However, overall, the results added greatly to the geological understanding of these areas, and gave positive indications as to those areas in which future exploration should be directed.

Further diamond drilling is planned for 1981/82, comprising 2 holes in the Argent area, and 2 holes at Grand Prize. Follow-up geological mapping is also proposed near Grand Prize.

Budgetted expenditure is \$111,000 for the Argent area and \$132,000 on Grand Prize.

2. INTRODUCTION

(Figure 1)

E.L. 42/71 covers an area south and west of the Renison Mining Lease. The southern portion includes the Grand Prize mining leases, while the western portion is referred to generally as the Argent area. Because of its favourable geology, abundance of faulting and location in proximity to the Renison and Razorback tin mines, the Licence is considered to have good potential for the discovery of hydrothermal stanniferous deposits.

3. PREVIOUS WORK

Several companies have completed a variety of exploration programs in this area over the years. A major effort by Renison in recent years has succeeded in coordinating most of this data into a usable format.

Two airborne geophysical surveys have been completed, one by Aberfoyle in 1965 and one by Renison in 1972.

Since 1970, ten traverse line systems have been established by various companies, and on these a wide variety of programs have been completed, viz.:

- (a) E.Z. Grid, south of the Argent Dam, where magnetic, limited electrical geophysical and geochemical programs, and two diamond drill holes were completed.
- (b) Wilson River Grid, north of the Argent Dam, where Paringa completed a variety of geochemical and geophysical surveys.
- (c) Crimson Creek Grid, where Comstaff completed geochemical and geophysical surveys prior to drilling three diamond drill holes. In more recent years, Renison have completed 6 diamond drill holes in this area.

- (d) Razorback Grid, which only just comes on to E.L. 42/71 south of Pine Hill, where Renison completed a magnetic - I.P. survey prior to drilling three holes on the ultramafics in this area.
- (e) Dunkley Fault Grid, where Renison completed magnetic surveys and geological mapping.
- (f) Commonwealth Hill Grid, south of Pine Hill, where Renison undertook various geochemical, geophysical and geological surveys, and have since completed five diamond drill holes.
- (g) Kapi Fault Grid, south of Pine Hill, where Renison has completed several geophysical, geological and geochemical surveys
- (h) Kapi Grid, overlapping with and south of the Kapi Fault Grid, where Renison has completed geophysical, geochemical and mapping surveys, and has completed two diamond drill holes.
- (i) Argent Dam Grid, where Renison has completed geophysical, geochemical and mapping surveys, and drilled one diamond drill hole.
- (j) Dunkley Tram Grid, where Renison has recently completed I.P., magnetic and soil geochemical surveys.

#### 4. ARGENT AREA

##### 4.1. Geology

(Figures 2 & 3)

This area is underlain by rocks of the Success Creek Group and Crimson Creek Formation, both Lower Cambrian, and includes the Renison Mine Sequence or, to the west, its stratigraphic equivalent. The area exhibits moderate folding and is dissected by several major faults. One of these, the Owen Meredith shear zone, is the westerly continuation of the Federal structure on the Renison Mining Lease, and is patchily mineralised near the surface along the Bon Accord-Owen Meredith line of workings.

##### 4.2. Work Completed in 1980/81

Exploration activity this year was solely directed toward the completion of three widely separated diamond drill holes.

###### 4.2.1. DDH S697:

(Figure 4)

This hole was collared on the Pieman road near Dunkleytown, and drilled westwards testing the Owen Meredith shear zone and Renison Mine Sequence. It intersected a poorly mineralised fault (the Owen Meredith shear zone), a chert/agglomerate/tuff sequence (Red Rock Member), black shale and quartzite (Renison Bell Member), unmineralised fine-grained dolomite (No. 3 horizon) and a siltstone/quartzite sequence with minor dolomite (Dalcoath Member). (See Appendix 5 for detailed log.) Thin veins containing significant amounts of silver, probably as native silver, occurred at 220 metres (within the Owen Meredith shear zone) and at 239 metres.

This sequence correlates well with that intersected in S386, drilled by Renison some years ago, however, the No. 1 dolomite/Red Rock Member/No. 2 dolomite of the Renison Mine Sequence is represented in this area by a more diffuse chert/carbonate sequence.

4.2.2. DDH S705:

(Figure 5)

This was a vertical hole collared on the Dunkley Tram within Crimson Creek Formation sediments. Its purpose was to test for mineralisation within the Renison Mine Sequence close to a major fault which has associated geochemical anomalies.

It intersected a siltstone/tuffaceous siltstone sequence (Crimson Creek Formation sediments), a confused dolomite/chert/tuff/siltstone sequence (equivalent to the No. 1 horizon/Red Rock Member/ No. 2 horizon), shales and siltstones (Renison Bell Member), a thin fine grained unmineralised dolomite (No. 3 horizon ?) and a series of siltstones, shales, quartzites and dolomites (Dalcoath Member). (See Appendix 5 for detailed log.)

This sequence correlates well with that intersected in S386/S697 (see 4.2.1.) and in previous holes drilled in the Dunkleytown area. In economic terms however, the results were disappointing.

4.2.3. DDH S835:

(Figures 6 & 7)

This was a steeply angled hole, collared 2 kilometres west of the Argent Dam and drilled to test for mineralisation within the Renison Mine Sequence adjacent to the interpreted position of a major fault.

Unlike S697 and S705, this hole intersected a clearly defined Renison Mine Sequence, however the No. 2 was considerably thinner than normal, and the No. 3 considerably thicker. The No. 2 horizon was represented by a very broken gossanous zone of which only 0.05 metres was recovered. The recovered core was barren of significant mineralisation. The No. 3 horizon occurred as two dolomite beds separated by 34 metres of mainly calcareous siltstones. None of these rocks contained significant mineralisation. The hole was completed in Dalcoath Member.

#### 4.3. Discussion of Results

The three holes drilled this year have resulted in a considerable re-interpretation of the geology of the Argent area (see Figure 2).

The major N-E dipping Federal Fault strikes N-W through the area and continues off the Licence towards the Pieman River. The northerly section of this fault has historically been known as the Owen-Meredith Shear Zone. Parallelling this structure, approximately 1.5 kilometres to the south-west, is a second major normal fault, which dips to the south-west. Between these two in the Dunkley Tram area is a large ENE striking N-W dipping normal fault, truncating the Renison Mine Sequence, which in this area is folded into a SE plunging anticline. This fault may in fact be the offset portion of the major Dunkley Fault which extends NE from the north of Zeehan and appears to be truncated by the SW dipping, NW-SE trending fault. The Renison Mine Sequence or its equivalent outcrops north of the Dunkley Tram, west of the Pieman road, and west of DDH S835.

It has now been demonstrated that there is a distinct change of lithology within the Mine Sequence north of Dunkleytown and north of DDH S835. In these northern areas, the No. 1 horizon, Red Rock Member and the No. 2 horizon of the type Mine Sequence are no longer distinct units, but exist instead as a general chert/carbonate sequence. The No. 3 horizon continues but is generally very thin. South of this lithology change, the type mine units are quite distinct. The No. 3 horizon however, is considerably thicker than the normal Mine Sequence and exists as two separated dolomite beds. This follows an observed trend on the Renison Mining Lease for the No. 3 to become thicker and to bifurcate to the north.

The change in lithology is fairly dramatic, especially in the case of the No. 3 horizon, and it is postulated that the variation results from deposition in two basins, separated by a ridge striking approximately eastwards through Dunkleytown.

The geology south-west of the Dunkley Fault is less well understood. The area is underlain by rocks of the Crimson Creek Formation and Success Creek Group, with Siluro-Devonian sediments occurring in the south-west corner of the E.L. Several large faults are postulated, including one trending SSW and dipping south, which occurs approximately 1 km south-east of the Dunkley Fault. In the upthrown block between this fault and the Dunkley Fault, Mine Sequence rocks are thought to be relatively shallow, i.e. less than 500 metres deep, and may possibly outcrop. South of this fault, depth to the Mine Sequence is likely to be greater than 500 metres. Several geochemical and geophysical anomalies occur, broadly within the areas of Crimson Creek outcrop. Drilling information is very sparse, consisting of two holes, MFP 124 and MFP 125, drilled by E.Z. several years ago testing a magnetic anomaly within the Crimson Creek rocks.

Well developed carbonate beds and large, deeply penetrating faults are two of the parameters considered necessary for the formation of Renison-style stratabound deposits. This area is thought to possess both these characteristics, the unknown factor being depth to granite.

#### 4.4. Conclusions

4.4.1. Diamond drilling during the year added considerably to the geological understanding of the Argent area, while partially downgrading the potential for the discovery of mineralised Renison Mine Sequence north of the Dunkley Fault.

4.4.2. The discovery of well developed Mine Sequence carbonates in S835 enhances the potential of the area underlain by Crimson Creek Formation sediments south of the Dunkley Fault.

4.4.3. The potential for the discovery of significant shallow mineralisation in the Federal/Owen Meredith Fault has been downgraded by the results from S697.

#### 4.5. Recommendations

(Figures 2 & 3)

4.5.1. Access to be gained to the area south of the Dunkley Fault by a bulldozed track off the Argent Road.

4.5.2. One vertical diamond drill hole collared in the upthrown block south of the Dunkley Fault, testing geophysical and geochemical anomalies and the Renison Mine Sequence.

Proposed Coordinates: 18270N, 13430E RMG  
Proposed Length: 400 - 500 metres

4.5.3. One steeply declined diamond drill hole <sup>east.</sup>~~west~~ of the Pieman road, testing the Federal structure 500 - 600 metres below the surface.

Approximate Coordinates: 21050N, 15250E RMG  
Approximate Bearing: 243° RMG  
Approximate Dip: -70°  
Approximate Length: 700 - 800 metres

## 5. GRAND PRIZE AREA

### 5.1. Summary

During 1980-81, two drill holes totalling 1113 metres were completed, with both holes intersecting the Grand Prize Fault at about 2100m R.L. (100 metres above m.s.l.). One hole was drilled to intersect the Grand Prize Fault about 200 metres below and halfway between S653 and S677, the two most encouraging holes completed the previous year. The other hole was drilled to test the Fault 200 metres south and 200 metres lower than S652, the most southerly hole previously drilled.

The former of these two holes was continued 300 metres beyond the fault zone, after the hole intersected quite encouraging Sn - Cu ± WO<sub>3</sub> mineralisation. The Grand Prize Fault was intersected close to the base of oxidation, and contained minor low grade Sn - Cu mineralisation. The latter hole intersected the Fault

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within the oxidised zone, where recoveries were poor, and assays discouraging.

**5.2. Introduction**

Early in 1979-80, Renison Limited entered into an Option Agreement with Minops Pty Ltd, covering three mining leases (29M/51, 23M/52 and 102M/66) known collectively as Grand Prize, including the Grand Prize workings, and covering a strike length of approximately 1100 metres of the Grand Prize Fault, in which tin mineralisation occurs. The three leases are fully contained within E.L. 42/71, held by Renison Limited.

In view of the proximity to both Renison and Razorback, and with the known mineralisation at Grand Prize, the area was considered to have the potential for development of extensive stanniferous hydrothermal deposits. To assess this, a program of four drill holes totalling 1508 metres was undertaken during 1979/80, and a two hole program anticipated to total 1000 metres was conducted in 1980/81.

**5.3. Previous Work**

Several companies and the Mines Department have carried out various exploration programs in the vicinity of the Grand Prize Mine.

In 1962, the Mines Department put down one drill hole near the old mill site, with poor recoveries and disappointing assay results in the Grand Prize Fault zone.

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In 1965, Placer drilled one hole below the adit at the Grand Prize Mine. Similar to the Mines Department hole, poor recoveries and only traces of tin were encountered. At the same time, Placer had completed 880 feet of driving and 350 feet of crosscutting as part of a program commenced late in 1964. A bulk sample of lode material assayed 0.32% Sn.

Gippsland Minerals N.L. in 1971 carried out a detailed mapping and chip sampling program of the workings. The results proved sufficiently encouraging to drill two diamond drill holes near the old mill site. Again these encountered low tin values and poor recoveries in the fault zone. Limited trenching along strike from the Grand Prize Mine however revealed grades between 0.3% and 1.0% Sn, over thicknesses up to 23 feet, but averaging 12 feet.

A four hole program totalling 1508 metres was undertaken by Renison in 1979-80 with generally disappointing results. The holes were drilled at 200 metre spacings to intersect the Grand Prize Fault Zone about 200 metres below surface. Three of the holes intersected the fault within the oxidised zone, and the fourth close to the base of the oxidised zone. Tin grades in the fault zone were generally low, with higher (up to 0.5% Sn) grades occurring in the more northerly holes.

**5.4. Geology**

(Figure 2)

Within the area, a series of siltstones and conglomerates of the lower and middle Dundas Group, dipping 50° to the south, are transected by the steeply westerly dipping Grand Prize Fault. An estimated minimum of 450 feet of apparent right lateral movement, with unknown vertical movement, is indicated according to Gippsland Minerals report of 1971. The thickness of mineralisation varies from several centimetres to several metres

Mineralisation within the fault zone appears to consist of pyrite, quartz, chlorite and clay filled breccia below the base of oxidation, which extends in places at least to 200 metres below surface. This material is replaced within the oxidised zone by goethite and clay. Cassiterite appears to occur sporadically throughout, with grades up to 3%, but overall grades in the order of 0.3% appear more usual.

Mapping was carried out during the year and results are discussed in section 5.5.3.

#### 5.5. Work Completed in 1980/81

Two drill holes totalling 1113 metres were completed during the year, and to support this, approximately 1000 metres of access roads were constructed. Subsequent work by the Forestry Commission following the bushfire in February 1981 greatly aided access, which was at all times difficult. In summary, moderately good drilling conditions were encountered below the weathered surface zone, except for poor recoveries in broken ground within the Grand Prize Fault. No significant mineralisation was intersected in the more southerly of the two holes, whilst minor low grade tin was intersected in the Fault in the other holes, and an extensive low grade mineralised zone was intersected in the footwall rocks. The results of each hole are discussed below, and copies of the logs are included in the appendix.

##### 5.5.1. Diamond Drill Holes S674: (Figure 8)

This hole was collared approximately 100 metres west of S653 (i.e. ~500 metres north of the Grand Prize Mill) dipping  $-60^{\circ}$  on a bearing of  $090^{\circ}$  (R.M.G.) to intersect the Fault 400 metres below surface and about 75 metres south and 200 metres below the intersection of S653.

The hole passed through a series of siltstones and grits, with minor conglomerate prior to intersecting the Grand Prize Fault at 331.3 - 355.4 metres. The fault bulked at 24.1m at 0.10% Sn, and 0.14% Cu, and included 5.7m of 0.20% Sn and 0.31% Cu, with assays up to 0.45% Sn and 0.69% Cu over one metre.

This intersection was somewhat earlier than anticipated, indicating a flattening of the dip of the fault below S653. However, beyond the fault a well mineralised skarn-like horizon was intersected between 441.3m and 446.5m, bulking 5.2m of 0.05% Sn and 0.74% Cu. With this encouragement, the hole was continued and intersected an unusual mineralised altered conglomerate. The alteration is variable in intensity, and is generally actinolite ± axinite ± pyrrhotite, with both clasts and matrix/cement being altered. Tin assays up to 0.95%, copper up to 0.35%, and tungsten (as WO<sub>3</sub>) up to 2.51% were encountered. The hole was stopped in low grade mineralisation at 640.4 metres after intersecting 179.4m of 0.10% Sn, including 24.0m of 0.25% Sn between 507.0m and 531.0m.

5.5.2. Diamond Drill Hole S862: (Figure 9)

The hole was collared approximately 200 metres southwest of the Grand Prize Mill, dipping -61° on a bearing of 095° (Mine), to intersect the Grand Prize Fault zone about 350 metres below surface, approximately 200 metres south of S652, the most southerly hole drilled in the previous program. The hole passed through a series of siltstones and grits, to intersect the Grand Prize Fault at 185.4m - 217.4m. In this zone, core recovery was poor, and no visible sulphide or gossanous remnants were recorded. The hole was continued to a final depth of 472.4m, with the hope of intersecting the then little understood mineralised conglomerate intersected by S764, but only scant chalcopyrite-pyrrhotite-actinolite veins were encountered.

### 5.5.3. Surface Geological Mapping:

With the encouragement from the intersection of mineralised conglomerate by S764, it was decided to expand the available knowledge of the area by a program of surface geological mapping to cover the Grand Prize area and stratigraphy along strike into the adjacent portion of E.L. 42/71 as far as Kapi Creek. This work was completed late in the year, and at the time of writing compilation of the findings was underway. Preliminary results confirm the orientation of stratigraphy (strike  $\sim 090^{\circ}$  (Mine), dip  $50^{\circ} - 55^{\circ}$  S) and place the sequence in the lower portion of the Dundas Group (Melba Spillites to Fernfield Formation). Several outcrops of calcareous conglomerate, potentially equivalent to the mineralised conglomerate in S764, were recorded, and indicate a potential for similar mineralisation in the Red Lead Conglomerate (overlying the Melba Spillites) and the Razorback Conglomerate. In addition, a calcareous bed was observed within the Fernfield Formation, striking towards the Grand Prize Fault and presents further potential.

An indurated (?hornfelsed) area was mapped near the summit of Black Hill, 800 metres to the east of the Grand Prize Fault, and presents further complication to any interpretation of the area.

### 5.6. Conclusion and Recommendations

The drilling has further confirmed the erratic nature of mineralisation within the Grand Prize Fault and indicates that further exploration should be directed towards the more northern end.

With regard to the extensive mineralisation encountered in the footwall rocks in S764, it is apparent that

there is a potential for large tonnage/low grade tin ( $\pm$  copper and tungsten) mineralisation. It is not immediately apparent whether this mineralisation trends parallel to the Grand Prize Fault (i.e. the Grand Prize Fault is a channel-way for hydrothermal fluids) with most enrichment in favourable lithologies (such as apparently, the Red Lead Conglomerate) or is a strata-bound nature (with several sources ?) and therefore trends perpendicular to the Fault structure. On the basis of limited data available, it would appear the former situation is more likely.

It is proposed therefore that a minimum of two holes be drilled in the forthcoming year, to serve dual purposes of intersecting the Grand Prize Fault at levels below those intersections to date, and intersect the Red Lead Conglomerate close to the Grand Prize Fault footwall.

The hornfelsed and faulted area north and east of the summit of Black Hill presents a similar structural and stratigraphic situation to that at the northern end of the Grand Prize Fault. Further elucidation of the geology of this area and the area south and south-east of Black Hill is desirable, and a short program of surface mapping is envisaged for summer 1981/82.

APPENDIX 1

EL 42/71 RENISON BELL RESPONSIBILITY 073

P/E 30/ 6/81

| ACCOUNT NUMBER | ACCOUNT NAME                    | PERIOD TO DATE |          | YEAR TO DATE |          |
|----------------|---------------------------------|----------------|----------|--------------|----------|
|                |                                 | ACTUAL         | VARIANCE | ACTUAL       | VARIANCE |
| 010730702      | SALARIES                        | 668            | 582 G    | 8110         | 4568 G   |
| 010730703      | SALARY LOADING                  | 57             | 175 G    | 1006         | 1350 G   |
| 010730705      | CONSUMABLES                     |                |          | 3328         | 1016 L   |
| 010730708      | VEHICLES                        |                | 59 G     | 671          | 13 G     |
| 010730710      | TRAVEL & ACCOMMODATION          | 25             | 25 L     | 680          | 680 L    |
| 010730720      | RENISON SERVICES - SURVEY       | 1704           | 1704 L   | 2098         | 470 L    |
| 010730721      | RENISON SERVICES - ASSAY        |                |          |              | 1873 G   |
| 010730722      | RENISON SERVICES - RESEARCH     |                |          |              | 869 G    |
| 010730723      | RENISON SERVICES - OTHER        |                |          | 74           | 74 L     |
| 010730730      | OUTSIDE SERVICES - GEOLOGICAL   |                |          |              | 720 G    |
| 010730731      | OUTSIDE SERVICES - GEOPHYSICAL  |                |          | 986          | 986 L    |
| 010730732      | OUTSIDE SERVICES - GEOCHEMICAL  |                |          |              |          |
| 010730733      | OUTSIDE SERVICES - TRK CUTTING  |                |          |              |          |
| 010730735      | OUTSIDE SERVICES - SITE ACC DEV | 500            | 500 L    | 8214         | 3104 L   |
| 010730736      | OUTSIDE SERVICES - DIAMOND DRNG | 3315           | 3315 L   | 55727        | 8984 L   |
| 010730737      | OUTSIDE SERVICES - OTHER        |                |          | 301          | 301 L    |
| 010730740      | LEASE PAYMENTS                  |                |          | 846          | 54 G     |
|                | ROUNDING                        |                |          |              |          |
| 010739999      | TOTAL EL 42/71 RENISON BELL     | 6269           | 4728 L   | 82031        | 6168 L   |

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APPENDIX 2

GRAND PRIZE

RESPONSIBILITY 068

P/E 30/ 6/81

| ACCOUNT NUMBER | ACCOUNT NAME                  | PERIOD TO DATE |          | YEAR TO DATE |          |
|----------------|-------------------------------|----------------|----------|--------------|----------|
|                |                               | ACTUAL         | VARIANCE | ACTUAL       | VARIANCE |
| 010680702      | SALARIES                      | 556            | 556 L    | 3773         | 5875 G   |
| 010680703      | SALARY LOADING                | 47             | 47 L     | 436          | 1359 G   |
| 010680705      | CONSUMABLES                   |                |          | 940          | 1956 G   |
| 010680708      | VEHICLES                      |                |          |              | 576 G    |
| 010680710      | TRAVEL AND ACCOMODATION       |                |          |              |          |
| 010680720      | RENISON SERVICES - SURVEY     |                |          |              | 1274 G   |
| 010680721      | - ASSAY                       |                |          |              | 735 G    |
| 010680722      | - RESEARCH                    |                |          |              | 291 G    |
| 010680723      | - OTHER                       |                |          |              |          |
| 010680730      | OUTSIDE SERVICES - GEOLOGICAL |                |          |              | 1763 G   |
| 010680731      | - GEOPHYSICAL                 |                |          |              |          |
| 010680732      | - GEOCHEMICAL                 |                |          |              |          |
| 010680733      | - TRK CUTTING                 |                |          |              |          |
| 010680735      | - SITE/ACCDEV                 | 500            | 500 L    | 8806         | 3352 L   |
| 010680736      | - DIAMOND DRL                 | 16000          | 16000 L  | 74569        | 4202 L   |
| 010680737      | - OTHER                       |                |          |              |          |
| 010680740      | LEASE PAYMENTS                |                |          | 20309        | 309 L    |
|                | ROUNDING                      | 1              | 1 L      | 1            | 1 L      |
| 010689999      | TOTAL GRAND PRIZE             | 17104          | 17104 L  | 108834       | 5965 G   |

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APPENDIX 3

RENISON LIMITED

BUDGET, 1981/1982.

SHEET # D. 3

| ITEM                                   | REF.    | P#01. | P#02. | P#03. | P#04. | P#05. | P#06. | P#07. | P#08. | P#09. | P#10. | P#11. | P#12. | TOTAL  |
|--|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| APOLOGY - EL42/71 ARGENT AREA<br>===== |         |       |       |       |       |       |       |       |       |       |       |       |       |        |
| SALARIES                               | L730702 | 853   | 853   | 1107  | 2293  | 2293  | 1099  | 914   | 914   | 1185  | 2440  | 2440  | 1172  | 17563  |
| SALARY LOADING                         | L730703 | 256   | 256   | 332   | 688   | 688   | 330   | 274   | 274   | 356   | 732   | 732   | 351   | 5269   |
| CONSUMABLES                            | C730705 |       |       |       | 933   | 472   |       |       |       |       | 985   | 499   |       | 2889   |
| VEHICLES                               | C730708 |       |       | 55    | 225   | 225   | 56    | 58    | 58    | 232   | 237   | 178   | 59    | 1383   |
| RENISON SERVICES-SURVEY                | C730720 | 367   |       |       |       |       | 252   | 259   |       | 389   |       |       |       | 1267   |
| -ASSAY                                 | C730721 |       |       |       |       | 180   | 180   |       |       |       |       | 190   | 190   | 740    |
| -RESEARCH                              | C730722 |       |       | 56    | 28    |       |       |       |       |       | 59    | 30    |       | 173    |
| OUTSIDE SERVICES-GEOLOGICAL            | C730730 |       |       |       |       |       | 506   |       |       |       |       |       | 534   | 1040   |
| -SITE & ACCESS DEV'MENT                | C730735 |       |       | 480   | 495   | 495   |       |       |       | 510   | 522   | 522   |       | 3024   |
| -DIAMOND DRILLING                      | C730736 |       |       |       | 24741 | 12371 |       |       |       |       | 26118 | 13059 |       | 76289  |
| LEASE PAYMENTS                         | F730740 |       | 460   |       |       |       |       |       | 490   |       |       |       |       | 950    |
| SECTION TOTAL                          |         | 1476  | 1569  | 1974  | 29431 | 16752 | 2423  | 1505  | 1736  | 2672  | 31093 | 17650 | 2306  | 110587 |

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APPENDIX 4

MINISON LIMITED

BUDGET, 1981/1982.

SHEET # D. 4

ITEM

REF. P#01. P#02. P#03. P#04. P#05. P#06. P#07. P#08. P#09. P#10. P#11. P#12. TOTAL

GEOLGY - GRAND PRIZE  
\*\*\*\*\*

|    |                             |         |  |       |       |       |       |       |       |      |       |        |
|----|-----------------------------|---------|--|-------|-------|-------|-------|-------|-------|------|-------|--------|
| 1  | SALARIES                    | L680702 |  |       | 1147  | 3286  | 3286  | 4105  | 1220  | 1220 | 14264 |        |
|    | SALARY LOADING              | L680703 |  |       | 344   | 986   | 986   | 1231  | 366   | 366  | 4279  |        |
| 11 | CONSUMABLES                 | C680705 |  |       |       | 712   | 712   | 892   |       |      | 2316  |        |
| 17 | VEHICLES                    | C680708 |  | 56    | 56    | 232   | 232   | 232   | 59    | 59   | 926   |        |
| 15 | MINISON SERVICES-SURVEY     | C680720 |  | 378   |       |       | 259   |       |       |      | 637   |        |
|    | -ASSAY                      | C680721 |  |       |       |       |       | 371   | 380   |      | 751   |        |
| 19 | -RESEARCH                   | C680722 |  |       |       |       | 87    | 87    |       |      | 174   |        |
| 20 | OUTSIDE SERVICES-GEOLOGICAL | C680730 |  |       |       |       |       | 637   | 534   | 534  | 1705  |        |
| 29 | -SITE & ACCESS DEVT         | C680735 |  |       | 832   | 683   | 683   | 846   |       |      | 3044  |        |
| 21 | -DIAMOND DRILLING           | C680736 |  |       |       | 22819 | 22819 | 28494 |       |      | 74132 |        |
| 27 | LEASE PAYMENTS              | F680740 |  | 30000 |       |       |       |       |       |      | 30000 |        |
| 31 | SECTION TOTAL               |         |  |       | 30434 | 2379  | 28718 | 29064 | 36895 | 2559 | 2179  | 132228 |

881026

100

APPENDIX 5

# RENISON LIMITED - DRILL CORE RECORD

| HOLE NUMBER                 | 8697   | SURVEY |         |         | From - To   | Distance D | VERTICAL  |         | HORIZONTAL |            |
|-----------------------------|--|--------|---------|---------|-------------|------------|-----------|---------|------------|------------|
|                             |  | Depth  | Bearing | Dip     |             |            | D.Sin.Dip | R.L.    | D.Cos.Dip  | Prog.Total |
| PURPOSE                     | To test Owen-Meredith Fault and Mine Sequence  | COLLAR | 240°52' | -69°08' | 0.0 - 26.50 | 26.50      | 24.76     | 2132.8  | 9.62       | 7.14       |
|                             |  | 53.0m  | 249°    | -67.5°  | - 25.50     | 59.0       | 54.51     | 2078.3  | 22.58      | 32.62      |
|                             |  | 118.0m | 261°    | -60°    | - 149.00    | 63.50      | 59.99     | 2023.33 | 31.75      | 63.77      |
| LOCATION                    | CRIMSON CREEK  | 180.0m | 260°    | -57.5°  | - 202.50    | 58.50      | 45.12     | 1778.21 | 28.75      | 92.52      |
|                             |  | 225.0m | 260°    | -55°    | - 260.00    | 57.50      | 47.10     | 1731.10 | 32.98      | 125.50     |
| COLLAR R.L.                 | 2157.59  | 295.0m | 267°    | -48°    | - 325.00    | 65.00      | 48.30     | 1682.80 | 43.49      | 168.99     |
|                             |  | 355.0m | 264°    | -46°    | - 356.00    | 31.00      | 22.30     | 1660.50 | 21.53      | 190.52     |
| CO-ORDINATES                | 21821.86N 14687.36E  |        |         |         |             |            |           |         |            |            |
| LENGTH                      | 356.0m   |        |         |         |             |            |           |         |            |            |
| HOLE SIZE                   | 0.0 - 3.4m HQ<br>- 231.2m HQ<br>- 356.0m HQ  |        |         |         |             |            |           |         |            |            |
| DATE DRILLED                | 25.7.80 - 12.8.80  |        |         |         |             |            |           |         |            |            |
| SIGNIFICANT CORE LOSS ZONES |  |        |         |         |             |            |           |         |            |            |
| ORE ZONE GROUND CONDITIONS  | Very broken ground on Hangingwall of Owen-Meredith fault.  |        |         |         |             |            |           |         |            |            |
| LOGGED BY                   | L.D. BOND  |        |         |         |             |            |           |         |            |            |
| COMMENTS                    | Intersected the Owen-Meredith fault about 150m earlier than anticipated, indicating a displacement of the fault somewhere near the Owen Meredith Workings.<br>Encountered Red Rock Member/Fault/Renison Bell Member/No.3 Horizon/Dalcoath in footwall of fault with only sparse sulphide mineralisation. |        |         |         |             |            |           |         |            |            |

### 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 <sub>3</sub> | Ag g/t |        |  |     |
| Owen-Meredith P. | 213.8 | 220.5 | 6.7        |                         |               |      |        |     |      |      |       |                 |        |        |  |     |
| incl.            | 219.7 | 220.4 | 0.7        | 0.03                    | 0.01          | 0.38 | < 0.01 | 0.9 | 0.46 | 0.06 | 0.014 | 0.01            | 650    |        |  |     |
| Vein             | 239.1 | 239.3 | 0.2        | < 0.01                  |               | 0.05 | 0.1    | 5.6 | 1.72 | 0.22 | 0.003 | 0.01            | 145    |        |  |     |
| No.3 Horizon     | 288.8 | 290.6 | 1.8        |                         |               |      |        |     |      |      |       |                 |        |        |  | 70° |
|                  |       |       |            |                         |               |      |        |     |      |      |       |                 |        |        |  |     |
|                  |       |       |            |                         |               |      |        |     |      |      |       |                 |        |        |  |     |
|                  |       |       |            |                         |               |      |        |     |      |      |       |                 |        |        |  |     |

## DIAMOND DRILL RECORD

HOLE NUMBER : S697

LOGGED BY : LDB

MWPS

| INTERVAL (m) |      | RECOVERY |     | DESCRIPTION  | FORM | % Sn. |    |       |          |       |       |      |       |       |       |        |
|--------------|------|----------|-----|--|------|-------|----|-------|----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO   | m        | %   |  |      | FROM  | TO | TOTAL | ACID SOL | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
| 0.0          | 3.4  | -        | -   | No recovery : triconed.  | NK   |       |    |       |          |       |       |      |       |       |       |        |
| 3.4          | 13.6 | 3.2      | 31  | <u>WEATHERED SILTSTONE TUFF, AND AGGLOMERATE</u><br>Interbedded clayey yellow-brown weathered tuff, siltstone and silty agglomerate. Goethite coats joints. Core is broken to very broken, with high core loss.  | CCF  |       |    |       |          |       |       |      |       |       |       |        |
| 13.6         | 23.7 | 7.1      | 70  | <u>SILTSTONE, AGGLOMERATE, TUFF</u><br>Weakly leached dark grey calcareous siltstone, calcareous dark grey silty agglomerate containing tuff, siltstone, and volcanic? fragments in a silty matrix and medium grained massive light grey tuff, with calcareous bands. Locally broken to very broken, but generally reasonably good ground. Sparse goethite on joints. Sparse disseminated and vein pyrite. B.C.A. 70°.   | CCF  |       |    |       |          |       |       |      |       |       |       |        |
| 23.7         | 29.8 | 3.5      | 57  | <u>WEATHERED TUFF, MINOR UNWEATHERED SILTSTONE</u><br>Broken and clayey yellow-brown medium grained tuff, with minor unweathered interbedded light and dark grey medium grained calcareous siltstone patches. B.C.A. 70°.  | CCF  |       |    |       |          |       |       |      |       |       |       |        |
| 29.8         | 48.0 | 18.2     | 100 | <u>CALCAREOUS TUFF AND SILTSTONE, MINOR AGGLOMERATE</u><br>Interbedded black siltstone, grey medium grained siltstone and light grey medium grained tuff, with minor coarse agglomerate bands at 38.3 - 38.4m, and 47.6 - 48.0m. Black siltstone is locally pyritic. The entire sequence is strongly calcareous. Minor calcite veins throughout. Calcite quartz vein at 47.5 - 47.6m is strongly fractured; driller reported water return lost here. B.C.A. 70°. | CCF  |       |    |       |          |       |       |      |       |       |       |        |
| 48.0         | 54.5 | 6.5      | 100 | <u>NON CALCAREOUS TUFF, MINOR SILTSTONE</u><br>Generally fine grained massive green-grey tuff, with minor coarser siltstone fragments near base and middle of the unit, with minor interbedded pale grey calcareous cherty siltstone and medium to coarse lithic tuff also near the middle of the unit. B.C.A. 60-70°.   | CCF  |       |    |       |          |       |       |      |       |       |       |        |
| 54.5         | 56.5 | 2.0      | 100 | <u>INTERBEDDED SILTSTONE(70%) AND TUFF (30%)</u><br>Interbedded light grey, green-grey and grey fine to medium grained locally calcareous siltstone and fine to medium grained lithic tuff. Gradational base. B.C.A. = 60° - 70°.  | CCF  |       |    |       |          |       |       |      |       |       |       |        |
| 56.5         | 70.6 | 14.1     | 100 | <u>AGGLOMERATE, MINOR SILTSTONE</u><br>Massive coarse grained silty agglomerate containing angular siltstone, tuff and volcanic? fragments up to 2cm in a black calcareous siltstone matrix. Minor massive dark grey siltstone beds  | CCF  |       |    |       |          |       |       |      |       |       |       |        |

881029

## DIAMOND DRILL RECORD

HOLE NUMBER : S697

LOGGED BY : LDB

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION   | FORM. | % Sn. |    |       |           |       |       |      |       |       |       |        |
|--------------|-------|----------|-----|---|-------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO    | m        | %   |   |       | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
|              |       |          |     | Fragments are locally partly replaced by pyrite. Minor carbonate - pyrite veins.  |       |       |    |       |           |       |       |      |       |       |       |        |
| 70.6         | 85.9  | 15.3     | 100 | <u>CALCAREOUS SILTSTONES, MINOR AGGLOMERATE AND TUFF</u><br>Interbedded dark and light grey calcareous siltstone, with minor coarse agglomerate interbeds near top of unit. Medium grained massive grey to green-grey tuff beds occur sporadically. Sparse carbonate veins. Trace disseminated pyrite. B.C.A. 70°.  | CCF   |       |    |       |           |       |       |      |       |       |       |        |
| 85.9         | 86.2  | 0.3      | 100 | <u>FAULT ZONE</u><br>Brecciated siltstone infilled by carbonate, with locally abundant finely disseminated brown sphalerite and traces of galena. Trend of structure ~30° to C.A.   | F     |       |    |       |           |       |       |      |       |       |       |        |
| 86.2         | 90.5  | 4.3      | 100 | <u>TUFF</u><br>Indistinctly bedded green-grey medium grained calcareous tuff. Minor calcite veinlets. B.C.A. 70°.   | CCF   |       |    |       |           |       |       |      |       |       |       |        |
| 90.5         | 104.3 | 13.8     | 100 | <u>INTERBEDDED TUFF AND SILTSTONE</u><br>Interbedded calcareous light and dark grey locally pyritic fine grained siltstone and grey fine-medium grained calcareous tuff. Minor calcite veins throughout. 4cm thick calcite vein at 96.4 - 96.9m (at 30° to C.A.) contains common rock fragments. Sparse disseminated pyrrhotite at base of some tuff beds. BCA 60° - 70°. | CCF   |       |    |       |           |       |       |      |       |       |       |        |
| 104.3        | 116.7 | 12.4     | 100 | <u>INTERBEDDED SILTSTONES</u><br>Interbedded light grey, grey, and black calcareous and green-grey and black non calcareous cherty siltstones. Minor disseminated pyrite and pyrrhotite. Minor calcite veins throughout. BCA 70°.   | CCF   |       |    |       |           |       |       |      |       |       |       |        |
| 116.7        | 119.1 | 2.4      | 100 | <u>BRECCIATED TUFF/SILTSTONE</u><br>Weakly to intensely brecciated dark grey calcareous siltstone, and green-grey fine grained calcareous tuff. Calcite infills breccia.  | F?    |       |    |       |           |       |       |      |       |       |       |        |
| 119.1        | 161.3 | 42.2     | 100 | <u>INTERBEDDED SILTSTONE AND TUFF</u><br>Interbedded light grey and dark grey locally pyritic calcareous siltstone, and light grey to green-grey calcareous fine to medium grained tuff. Minor breccia zone. Minor to common calcite veins. Brecciated base. Trace to minor disseminated pyrite. BCA 60° - 70°.   | CCF   |       |    |       |           |       |       |      |       |       |       |        |
| 161.3        | 171.0 | 9.7      | 100 | <u>CALCAREOUS SILTSTONES</u><br>Light to mid grey fine grained interbedded calcareous siltstones. (~70:30). Sparse carbonate veins, some with small displacements   | CCF   |       |    |       |           |       |       |      |       |       |       |        |

881030



## DIAMOND DRILL RECORD

HOLE NUMBER : 5697

LOGGED BY : LDB

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION   | FORM | % Sn. |       |       |           |       |       |      |       |       |       |        |                   |
|--------------|-------|----------|-----|---|------|-------|-------|-------|-----------|-------|-------|------|-------|-------|-------|--------|-------------------|
| FROM         | TO    | m        | %   |   |      | FROM  | TO    | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |
| 220.5        | 222.4 | 1.9      | 100 | <u>?TUFF AND BLACK SHALE</u>  | RRM? |       |       |       |           |       |       |      |       |       |       |        |                   |
|              |       |          |     | Interbedded green-grey fine to medium grained silty tuff, and black shale. Rocks are well veined by cream carbonate in anastomosing veins. B.C.A. = 60° at 220.9m.  |      |       |       |       |           |       |       |      |       |       |       |        |                   |
| 222.4        | 222.6 | 0.2      | 100 | <u>BRECCIA</u>  | F?   |       |       |       |           |       |       |      |       |       |       |        |                   |
|              |       |          |     | Extremely broken and slightly clayey brecciated ?tuff (green-grey, fine grained) with locally abundant carbonate veins, and sparse pyrite. Fractures are locally slickensided. Sharp planar base, ~80° to C.A.  |      |       |       |       |           |       |       |      |       |       |       |        |                   |
| 222.6        | 226.3 | 3.7      | 100 | <u>TUFF</u>   | RRM  |       |       |       |           |       |       |      |       |       |       |        |                   |
|              |       |          |     | Medium grained massive grey-green tuff becoming darker and cherty towards end of unit. Fine white carbonate veins common. No distinct bedding.  |      |       |       |       |           |       |       |      |       |       |       |        |                   |
| 226.3        | 233.0 | 3.7      | 100 | <u>CHERT, SILTSTONE</u>   | RRM  |       |       |       |           |       |       |      |       |       |       |        |                   |
|              |       |          |     | Red to pink massive chert, and pink to grey silty chert, and grey-green to pink-grey chert. Laminated siltstone. Rocks are brecciated and veined by carbonate 228.1 - 229.6m. Minor calcareous chert near top of unit. Carbonate veins and sparse pyrite occur throughout. BCA 70° - 80°. |      |       |       |       |           |       |       |      |       |       |       |        |                   |
| 233.0        | 234.9 | 1.9      | 100 | <u>CHERT, SILTSTONE</u>   | RRM  |       |       |       |           |       |       |      |       |       |       |        |                   |
|              |       |          |     | Massive dark pink-grey chert interbedded with massive dark grey cherty-siltstone and massive light green-grey cherty siltstone. Minor blebs of pyrite and pyrrhotite 234.0 - 234.9m. Base sharp, marked by irregular aggregate of milky quartz. BCA 80°.                                  |      |       |       |       |           |       |       |      |       |       |       |        |                   |
| 234.9        | 237.7 | 2.8      | 100 | <u>CHERTY SILTSTONE, MINOR CHERT AND TUFF</u>   | RRM  |       |       |       |           |       |       |      |       |       |       |        |                   |
|              |       |          |     | Laminated green-grey cherty siltstone with minor medium to coarse grained lithic tuff horizons, and dark grey-red chert bands. Minor slumping and microfaulting sparse carbonate veins. BCA 80°.  |      |       |       |       |           |       |       |      |       |       |       |        |                   |
| 237.7        | 239.1 | 1.4      | 100 | <u>CHERTY SILTSTONE, MINOR TUFF</u>   | RRM  |       |       |       |           |       |       |      |       |       |       |        |                   |
|              |       |          |     | Laminated light grey to dark grey cherty siltstone with minor medium grained tuff horizons. Minor slumping, associated with graphite veins. Sparse carbonate veins. BCA = 70° - 80°.  |      |       |       |       |           |       |       |      |       |       |       |        |                   |
| 239.1        | 239.3 | 0.2      | 100 | <u>VEIN</u>   | F?   | 239.1 | 239.3 | <0.01 | 0.01      | 0.05  | 0.1   | 5.6  | 1.72  | 0.22  | 0.003 | 145    | 0.01              |
|              |       |          |     | Carbonate - quartz - galena - minor pyrite and rock fragments vein, VCA = 70°. Vuggy and leached near middle of unit. Moderately broken.  |      |       |       |       |           |       |       |      |       |       |       |        |                   |

881032

DIAMOND DRILL RECORD

HOLE NUMBER : S697

LOGGED BY : LDB

MWPS

| INTERVAL (m) | RECOVERY |      | DESCRIPTION | FORM.   | % Sn. |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
|--------------|----------|------|-------------|---|-------|-------|-------|------|-------|----------|-------|-------|------|-------|-------|-------|--------|-------------------|--|--|--|
|              | FROM     | TO   |             |   | m     | %     | FROM  | TO   | TOTAL | ACIDSOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |  |  |  |
| 239.3        | 242.9    | 3.6  | 100         | <u>AGGLOMERATE</u>  | RRM?  |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
|              |          |      |             | Angular to subrounded fragments up to 5cm across of siltstone chert and tuff in a black shaly matrix. Minor disseminated pyrite throughout. Sparse carbonate veins. Sharp Planar base marked by ?pyrite vein at ~40° to C.A. Brecciated and strongly carbonate veined 241.6 - 241.8m.                           |       |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
| 242.9        | 267.9    | 25.0 | 100         | <u>CHERTY SILTSTONE, MINOR TUFF, SPARSE AGGLOMERATE AND CHERT</u>   | RRM?  |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
|              |          |      |             | Light to dark grey massive to well bedded cherty siltstone interbedded with fine to coarse lithic tuff beds up to 30cm thick. Sparse coarser tuff beds and agglomerate. Minor pinkish chert bands occur near top of unit. BCA 70° - 80°.  |       |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
| 267.9        | 275.3    | 7.4  | 100         | <u>AGGLOMERATE</u>  | RRM?  | 273.8 | 274.8 | 0.03 |       |          |       |       |      |       |       |       |        |                   |  |  |  |
|              |          |      |             | Angular to subangular fragments of chert, siltstone tuff and dolomite up to 5cm across in a black shaly, locally pyritic groundmass. Clasts are locally partially to completely replaced by pyrite, particularly 274.2 - 275.3m. Minor carbonate veins. Lower contact appears sheared, and is probably faulted. |       |       |       |      | 0.06  |          |       |       |      |       |       |       |        |                   |  |  |  |
|              |          |      |             |   |       |       |       | 0.04 |       |          |       |       |      |       |       |       |        |                   |  |  |  |
| 275.3        | 275.7    | 0.4  | 100         | <u>SILTY DOLOMITE</u>   | 2.2?  |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
|              |          |      |             | Fine grained grey indistinctly bedded finely stylolitic silty dolomite. May be the lower portion of the 2.2.Horizon.  |       |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
| 275.7        | 288.8    | 13.1 | 100         | <u>BLACK SHALE AND QUARTZITE</u>  | RRM   |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
|              |          |      |             | Interbedded laminated locally pyritic black shale and fine grained grey quartzite. Slumping and microfaulting common throughout. Brecciated and veined by quartz and bright pink carbonate 275.7 - 277.0m. Trace to sparse quartz and carbonate veins elsewhere. BCA 70° - 80°.                                 |       |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
| 288.8        | 290.6    | 1.8  | 100         | <u>DOLOMITE</u>   | 3DO   |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
|              |          |      |             | Pale grey fine grained massive and bedded stylolitic dolomite, with minor siltstone and shale laminae near end of unit. Minor white carbonate veins throughout. BCA = 70°.  |       |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
| 290.6        | 291.2    | 0.6  | 100         | <u>BLACK 'SHALE'</u>  | IM    |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
|              |          |      |             | Massive black carbonaceous siltstone with minor pyrite blebs throughout. No distinct bedding.   |       |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
| 291.2        | 298.7    | 7.5  | 100         | <u>SHALE, SILTSTONE AND DOLOMITE</u>  | DM    |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |
|              |          |      |             | Interbedded laminated and massive black pyrite shale, dark and light grey siliceous siltstone and minor pale grey fine grained  |       |       |       |      |       |          |       |       |      |       |       |       |        |                   |  |  |  |

881033

DIAMOND DRILL RECORD

HOLE NUMBER : S697

LOGGED BY : LDB

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM. | % Sn. |    |       |           |       |       |      |       |       |       |        |
|--------------|-------|----------|-----|--|-------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO    | m        | %   |  |       | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
|              |       |          |     | weakly stylonitic dolomite bands. Diffuse base. Minor microfaulting. Sparse quartz veins. Sparse disseminated pyrite. BCA = 70° - 80°.   |       |       |    |       |           |       |       |      |       |       |       |        |
| 298.7        | 324.7 | 26.0     | 100 | <u>SILTSTONE AND QUARTZITE</u><br>Interbedded dark grey carbonaceous siltstone, light grey siliceous siltstone and mid grey fine to medium grained quartzite. Microfaulting and slumping common. Quartz veins occur throughout. Sparse disseminated pyrite. BCA = 70° - 80°.   | DM    |       |    |       |           |       |       |      |       |       |       |        |
| 324.7        | 327.9 | 3.2      | 100 | <u>QUARTZITE, MINOR SILTSTONE</u><br>Mid grey to brown grey medium to coarse (slightly gritty) quartzite, interbedded with mid grey medium grained siltstone. Quartzite appears microfractured throughout, and veined by fine veinlets of a dark mineral. Minor quartzite. Locally abundant disseminated pyrite, but generally trace pyrite only. BCA = 80°.                 | DM    |       |    |       |           |       |       |      |       |       |       |        |
| 327.9        | 349.7 | 21.8     | 100 | <u>SILTSTONE AND QUARTZITE</u><br>Interbedded fine grained dark grey to black carbonaceous siltstone, light grey siliceous siltstone, and mid grey medium grained quartzite. Quartz-carbonate veins common. Microfaulting and slumping frequent. BCA 60° - 80°.  | DM    |       |    |       |           |       |       |      |       |       |       |        |
| 349.7        | 356.0 | 6.3      | 100 | <u>SILTSTONE, QUARTZITE, MINOR GRIT</u><br>Interbedded black and dark grey carbonaceous siltstone, light grey fine grained siliceous and fine to coarse grained (gritty) quartzite. Gritty portions tend to be strongly calcareous. Slumping and contorted bedding throughout. BCA highly variable. Minor graphite on joints. Sparse carbonate - quartz veins. Trace pyrite. | DM    |       |    |       |           |       |       |      |       |       |       |        |
|              |       |          |     | END OF HOLE AT 356.0m.   |       |       |    |       |           |       |       |      |       |       |       |        |

881034

RENISON LIMITED  
DIAMOND DRILL HOLE PLOT

SCALE:

HOLE No.: s 697

PETROLOGICAL DESCRIPTION

REPORT CMS 81/2/1

SAMPLE NO.

CLASSIFICATION - COMPOSITION

FABRIC

ACCESSORIES

COMMENTS

220.0m  
(T.S. 35978)

Quartz-Carbonate Rock. Vein-type quartz, subordinate sideritic carbonate, disseminated sphalerite, galena, chalcopyrite, pyritised pyrrhotite. Late films calcite, chlorite, carbonaceous matter.

Stressed to locally granulated. Partly quartz-healed. Late microfractures.

Sporadic films (to 300 u x 4mm), clots (to 300 u x 400 u) native silver.

Stressed, granulated, fractured quartz-carbonate vein material. Silver heals late fractures, microfractures with calcite, chalcopyrite, chlorite.

220.2m

Quartz-Carbonate Rock. Vein-type quartz with sporadic aggregates, single sparry grains, bands of sideritic carbonate. Sparse galena, pyrite and chalcopyrite disseminations, films.

Mildly stressed. Semi-ubiquitous, quartz-healed microfractures, calcite films in siderite.

Bare sphalerite. Extremely rare silver.

Affinities with 220.0m, but relatively undeformed. Bulk of sulphide (with rare silver) as ultrafine films with calcite on fractures, cleavage, in siderite.

881035

# RENISON LIMITED - DRILL CORE RECORD

| HOLE NUMBER                 | S705  | SURVEY      |         |         | From - To   | Distance<br>D | VERTICAL  |         | HORIZONTAL |            |
|-----------------------------|---|-------------|---------|---------|-------------|---------------|-----------|---------|------------|------------|
|                             |   | Depth       | Bearing | Dip     |             |               | D.Sin.Dip | R.L.    | D.Cos.Dip  | Prog.Total |
| PURPOSE                     | To test Mine Sequence exposed on Dunkley Tram   | COLLAR      | -       | - 90°   | 0.0 - 93.0m | 93.0m         | 93.0      | 2175.51 | 0.0        | 0.0        |
|                             |   | 186.0m      | 323.5°  | - 85°   | - 210m      | 117.0m        | 116.55    | 2058.96 | 10.2       | 10.2       |
|                             |   | 234.0m      | 321.5°  | - 76.5° | - 258.0m    | 48.0m         | 46.67     | 2012.29 | 11.21      | 21.41      |
|                             |   | 282.0m      | 321.5°  | - 66°   | - 306.0m    | 48.0m         | 49.45     | 1968.44 | 17.52      | 40.93      |
| LOCATION                    | Dunkley Tram, 2km from Pieman Road  | 330.0m      | 317.5°  | - 58°   | - 333.4     | 27.4m         | 23.24     | 1945.20 | 14.52      | 55.45      |
|                             |   | COLLAR R.L. | 2268.51 |         |             |               |           |         |            |            |
| CO-ORDINATES                | 21275.73N 12723.49E   |             |         |         |             |               |           |         |            |            |
| LENGTH                      | 333.4m  |             |         |         |             |               |           |         |            |            |
| HOLE SIZE                   | 0.0 - 3.0m HQ Triconed<br>- 99.0m, reared to 164.1m<br>- 333.4m BQ  |             |         |         |             |               |           |         |            |            |
| DATE DRILLED                | 13.8.80 - 2.9.80  |             |         |         |             |               |           |         |            |            |
| SIGNIFICANT CORE LOSS ZONES | 119.3 - 142.6m : 11.4m (49%) lost.<br>Cavity : 163.4 - 164.2m (no recovery)   |             |         |         |             |               |           |         |            |            |
| ORE ZONE GROUND CONDITIONS  |   |             |         |         |             |               |           |         |            |            |
| LOGGED BY                   | L.D. BOND   |             |         |         |             |               |           |         |            |            |
| COMMENTS                    | Collared in black shale sequence in CCF, and passed into maroon siltstones above a fault? 119.3 - 120.5m. Further dark siltstones occur between this fault? and the No.1 Horizon Hangingwall. Note cavity on the hangingwall of No.1. No.1 Horizon consists of two dolomites, separated by 5.5m of red and green siltstone. The Red Rock Member is remarkably thin compared to that on the mine lease, at 7.0m; as is No.2 Horizon at 2.6m. The Renison Bell Member (as logged) is 40.1m thick, but several dolomites band occur below this. Thin cherty siltstone/gritty tuff laminae between 253.5 and 258.5m are considered to be diagnostic of the Dalcoath Member. |             |         |         |             |               |           |         |            |            |

## SUMMARY - ASSAY DATA

| LODE NAME          | FROM  | TO    | LENGTH<br>(m) | AVERAGE WEIGHTED ASSAYS |               |     |     |    |     |     |     |                 |        |  | B.C.A. |  |
|--------------------|-------|-------|---------------|-------------------------|---------------|-----|-----|----|-----|-----|-----|-----------------|--------|--|--------|--|
|                    |       |       |               | Sn.                     | Acid Sol. Sn. | Cu. | As. | S. | Pb. | Zn. | Bi. | WO <sub>3</sub> | Ag g/t |  |        |  |
| FAULT?             | 119.3 | 120.5 | 1.2           |                         |               |     |     |    |     |     |     |                 |        |  |        |  |
| No.1 Horizon Upper | 163.4 | 172.4 | 9.0           | cavity and dolomite     |               |     |     |    |     |     |     |                 |        |  | 60°    |  |
| Lower              | 177.9 | 194.6 | 16.7          | dolomite                |               |     |     |    |     |     |     |                 |        |  | 60°    |  |
| No.2 Horizon       | 201.6 | 204.2 | 2.6           | Dolomite                |               |     |     |    |     |     |     |                 |        |  | 60°    |  |
| No.3 Horizon       | 244.3 | 246.1 | 1.8           | Dolomite                |               |     |     |    |     |     |     |                 |        |  | 70°    |  |

881036

## DIAMOND DRILL RECORD

HOLE NUMBER : S795

LOGGED BY : LDB

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM. | % Sn. |    |       |           |       |       |      |       |       |       |        |                   |
|--------------|-------|----------|-----|--|-------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|-------------------|
| FROM         | TO    | m        | %   |  |       | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % Al. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |
| 0.0          | 3.0   | -        | -   | NO RECOVERY : triconed   | NK    |       |    |       |           |       |       |      |       |       |       |        |                   |
| 3.0          | 14.2  | 5.1      | 46  | GRAPHITIC "AGGLOMERATE"<br>Black extremely carbonaceous to graphitic shale apparently intensely reworked, with the appearance of an agglomerate : angular to well rounded quartzite and siltstone clasts occur throughout. Highly variable bedding orientation. Ground is soft and very broken with locally high core losses.  | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |
| 14.2         | 26.9  | 12.3     | 97  | SHALE AND SILTSTONE<br>Well bedded black carbonaceous and light grey siltstones, with locally very pyritic laminae. Minor pyrite also occurs on joints. From ~23.5m, goethite coats joints and rocks become increasingly weathered and iron stained. Ground is moderately to extremely broken near top, with some core loss. Minor quartz veins. B.C.A. - 50° - 60°.   | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |
| 26.9         | 36.6  | 9.5      | 98  | WEATHERED SILTSTONES<br>Grey, yellow and pink clayey weathered siltstones, with locally abundant ironstaining, and iron oxide coatings on joints. Minor core loss at base. B.C.A. 50° - 60°.   | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |
| 36.6         | 73.5  | 33.1     | 90  | PARTLY WEATHERED SILTSTONE<br>Massive and well bedded pale grey siltstone, with minor black carbonaceous siltstone bands. Weathering is restricted to bands up to 4m thick and takes the form of yellow ochreous claystone with iron oxide coatings and staining. Minor crimson siltstone bands in weathered zone 40.5 - 42.0m. Elsewhere, ground is locally soft and clayey and is occasionally reduced to a clayey gravel. Minor fine to coarse tuffaceous interbeds 64.3 - 65.0m. Red cherty gravel recovered at 70.8m. Diffuse base. B.C.A. = 50° - 60°.   | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |
| 73.5         | 116.0 | 42.5     | 100 | CHOCOLATE SILTSTONE, SPARSE CHERT<br>Massive and weakly bedded fine grained chocolate coloured siltstone, with locally abundant green-grey fine grained siltstone wisps and splashes (alteration?). Siltstone locally has angular cream? siltstone clasts up to 15mm across, which tend to leach out. Sparse gritty tuffaceous horizons occur sporadically. Ground is locally very broken, but is generally only moderately broken. Minor massive red chert bands occur between 89.8 and 91.4m, up to 4cm thick. Minor pale green laminated siltstone bands occur from 110.0 - 110.4m and 112.4 - 113.0m. The band 110.0 - 110.4m has a clast-rich (tuffaceous) horizon 110.1 - 110.2m. B.C.A. 60° Diffuse base. | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |

S81037

## DIAMOND DRILL RECORD

HOLE NUMBER : S705

LOGGED BY : LDR

NWPE

|   | INTERVAL (m) |       | RECOVERY |     | DESCRIPTION   | FORM. | % Sn. |    |       |           |       |       |      |       |       |       |        |                   |  |  |
|---|--------------|-------|----------|-----|---|-------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|-------------------|--|--|
|   | FROM         | TO    | m        | %   |   |       | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |  |  |
| ① | 116.0        | 118.8 | 2.8      | 100 | <u>GREEN SILTSTONE</u><br>Pale green massive and laminated fine grained siltstone, moderately to very broken throughout. B.C.A. = 60°. Lower contact not recovered.   | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |  |  |
|   | 118.8        | 119.3 | 0.2      | 40  | <u>TUFF?</u><br>Grey locally clayey coarse grained tuff containing leached white rock fragments, with a weak alignment at ~60° to C.A. Top 30cm not recovered. Base not recovered.  | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |  |  |
|   | 119.3        | 120.5 | 0.3      | 38  | <u>CLAY, IRONSTONE</u><br>Ochreous, yellow and black clay and claystone with abundant goethite veins, coatings and fragments. Ground extremely broken.  | F?    |       |    |       |           |       |       |      |       |       |       |        |                   |  |  |
|   | 120.5        | 130.9 | 4.9      | 47  | <u>CLAYSTONE</u><br>Weathered yellow to cream fine to medium grained claystone with pervasive weak ironstaining, generally in liesegang textures, with some bedding evident. Vuggy, leached and broken quartz veins occur sporadically. Ground is moderately broken elsewhere, with core loss restricted to zones around quartz veins. B.C.A. 40°-60°.  | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |  |  |
|   | 130.9        | 142.6 | 6.7      | 57  | <u>WEATHERED TUFFACEOUS CARBONACEOUS SILTSTONE</u><br>Black and dark grey fine grained carbonaceous siltstone, containing minor white angular ?volcanic fragments up to 15mm across. Fragments are generally leached out. Weathering takes the form of bleaching but is incomplete, imparting a mottled effect finely laminated 138.5 - 139.1m. Intensity of weathering decreases towards end of unit. Iron oxides coat joints; no apparent sulphides. Ground is broken to extremely broken throughout. B.C.A. = 40° at 138.9m. | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |  |  |
|   | 142.6        | 148.9 | 7.3      | 100 | <u>SILTSTONE</u><br>Indistinctly bedded and massive grey fine grained siltstone, containing sparse black shale wisps, and minor white ?volcanic fragments near base. Weathering is slight, and restricted to the first 4m, taking the form of mild iron-staining. Slightly to moderately broken throughout. Sharp sub-planar base. B.C.A. 60°.  | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |  |  |
|   | 148.9        | 163.4 | 9.1      | 63  | <u>TUFFACEOUS CARBONACEOUS SILTSTONE</u><br>Black massive fine grained carbonaceous siltstone containing sparse to locally common cream fine grained angular ?volcanic clasts up to 15mm across, but generally <3mm. Minor pale grey medium grained siltstone interbeds. Carbonaceous siltstone is locally  | CCF   |       |    |       |           |       |       |      |       |       |       |        |                   |  |  |

881038

## DIAMOND DRILL RECORD

HOLE NUMBER : S705

LOGGED BY : LDB

NWPS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM. | % Sn. |    |       |           |       |       |      |       |       |       |        |
|--------------|-------|----------|-----|--|-------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO    | m        | %   |  |       | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
|              |       |          |     | very weakly calcareous; clasts and siltstones both contain sporadic disseminated pyrite. Minor quartz veins throughout, generally leached and pitted, and increasing in abundance and thickness towards end of unit. Ground is broken to very broken throughout, with some high core losses. Fractures are locally slickensided, and graphite is sporadically developed. B.C.A. 60° at 151.5m.   |       |       |    |       |           |       |       |      |       |       |       |        |
| 163.4        | 164.2 | -        | -   | CAVITY<br>Rods dropped freely; lost water return.  | 1 ?   |       |    |       |           |       |       |      |       |       |       |        |
| 164.2        | 172.4 | 8.2      | 100 | DOLOMITE<br>Pale grey fine grained weakly bedded to massive stylolitic dolomite. Minor white carbonate veins near top. No apparent sulphides. B.C.A. = 60°.  | 1 DO  |       |    |       |           |       |       |      |       |       |       |        |
| 172.4        | 177.9 | 5.5      | 100 | RED & GREEN CHERTY SILTSTONE MINOR CHERT, DOLOMITE AND SPARSE TUFF<br>Laminated fine to coarse grained green cherty siltstone, interbedded with maroon finely laminated fine grained cherty, siltstone 175.7 - 176.8m, and with white to bright red chert bands and splashes throughout. Minor pink dolomite interbedded near base. Sparse tuff bands up to 1cm thick near base. Minor pyrite associated with chert bands. B.C.A. = 60°. | RRM?  |       |    |       |           |       |       |      |       |       |       |        |
| 177.9        | 194.6 | 16.7     | 100 | DOLOMITE<br>Pale grey fine grained weakly bedded and massive stylolitic dolomite. Stylolites are frequently infilled by black carbonaceous? material. Thin (2cm) green gritty tuff bands at 180.1 and 180.2m. Dolomite has pinkish-grey bands which become more common towards the base. Sharp, planar base. B.C.A. = 50°.   | 1 DO  |       |    |       |           |       |       |      |       |       |       |        |
| 194.6        | 198.8 | 4.2      | 100 | CHERT, SANDSTONE, SILTSTONE, MINOR TUFF<br>Interbedded green-grey, pink - grey and cream- grey siltstone, and locally calcareous pink, red, and maroon massive chert, and chert sandstone, (locally becoming agglomeratic) with minor green and grey tuff bands. Chert is very minor 197.6 - 198.8m. Diffuse base. B.C.A. = 60°.   | RRM   |       |    |       |           |       |       |      |       |       |       |        |
| 198.8        | 200.3 | 1.5      | 100 | BLACK SHALE, CALCAREOUS SILTSTONE, DOLOMITE & MINOR AGGLOMERATE<br>Interbedded massive and weakly laminated black shale, massive light grey fine grained calcareous siltstone, and reworked? pale grey fine grained dolomite, locally containing pink-grey angular cherty siltstone clasts, with an irregular band of coarse siltstone agglomerate at 199.4m. B.C.A. = 50° - 60°.  | RRM   |       |    |       |           |       |       |      |       |       |       |        |

881039

## DIAMOND DRILL RECORD

HOLE NUMBER : S705

LOGGED BY : LDB

| INTERVAL (m) | RECOVERY |      | DESCRIPTION | FORM  | % Sn. |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
|--------------|----------|------|-------------|---|-------|---|------|----|-------|------------|-------|-------|------|-------|-------|-------|--------|-------------------|--|
|              | FROM     | TO   |             |   | m     | % | FROM | TO | TOTAL | ACIDS SOL. | % Cu. | % Al. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |  |
| 200.3        | 201.6    | 1.3  | 100         | <u>INTERBEDDED DOLOMITE AND SILTSTONE</u>   | RRM?  |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
|              |          |      |             | Pale grey fine grained massive calcareous siltstone interbedded with apparent reworked light grey fine grained dolomite. Sparse black shale laminae. B.C.A. = 50° - 60°.  |       |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
| 201.6        | 204.2    | 2.6  | 100         | <u>DOLOMITE</u>   | 2 DO  |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
|              |          |      |             | Massive pale grey fine grained weakly stylolitic dolomite 201.6 - 201.8m, and 203.5 - 203.9m, intermixed with mid grey fine grained reworked, or possibly oolitic dolomite elsewhere. Carbonate veins are common throughout. Sparse pyrite aggregates occur at 202.1m, and at base. Weakly bedded, silty dolomite 203.7m, has BCA = 60° - 70°.  |       |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
| 204.2        | 210.4    | 6.2  | 100         | <u>BLACK SHALE, GREY SILTSTONE</u>  | RBM   |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
|              |          |      |             | Finely interbedded black laminated shale and grey laminated and massive medium grained siltstone, with minor light grey medium grained weakly calcareous siltstone bands 206.9 - 207.1m. Pyrite laminae occur near the top of unit, and decrease in abundance toward the end of unit. Relative abundance of black decreases from ~90% near the top, to ~15% near the base. Gradational base. BCA = 60°.   |       |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
| 210.4        | 239.6    | 29.2 | 100         | <u>SILTSTONE, MINOR BLACK SHALE</u>   | RBM?  |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
|              |          |      |             | Interbedded laminated light and dark grey fine and medium grained siltstone, generally not calcareous, with minor black shale laminae near base. Sparse carbonate veinlets. Traces of disseminated pyrite. Sharp planar base. Minor yellow-grey cherty siltstone bands and laminae (e.g. 216.0m) with slightly gritty tuffaceous laminae are similar to Dalcoath Member, and the unit in general is possibly more similar to IM than RBM. B.C.A. = 60°. |       |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
| 239.6        | 239.7    | 0.1  | 100         | <u>CONGLOMERATE</u>   | RBP?  |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
|              |          |      |             | Poorly sorted siliceous conglomerate composed of angular to well rounded quartzite, quartz and grey chert clasts in a quartzitic matrix. The bed is inversely graded, and clasts have no distinct preferred orientation. Some clasts are partly replaced by pyrite, and matrix is almost completely pyritised for 15mm at base. The bed differs from R.M.L. "pebble beds" in its angularity, poorer sorting and matrix-rich nature.                     |       |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
| 239.7        | 244.3    | 4.6  | 100         | <u>BLACK SHALE AND GREY SILTSTONE</u>   | RBM?  |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |
|              |          |      |             | Interbedded laminated poorly laminated black shale and pale to dark grey fine to medium grained siltstone. Light grey fine grained  |       |   |      |    |       |            |       |       |      |       |       |       |        |                   |  |

881040

DIAMOND DRILL RECORD

HOLE NUMBER : S705

LOGGED BY : LDB

RWPS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION   | FORM.  | % Sn. |    |       |           |       |       |      |       |       |       |        |
|--------------|-------|----------|-----|---|--------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO    | m        | %   |   |        | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
|              |       |          |     | calcareous siltstone becomes increasingly abundant from 242m, and black shale decreases in abundance. B.C.A. = 60° - 70°. Sparse carbonate veins, trace disseminated pyrite.  |        |       |    |       |           |       |       |      |       |       |       |        |
| 244.3        | 246.1 | 1.8      | 100 | <u>DOLOMITE</u><br>Fine grained pale grey bedded and massive locally stylolitic dolomite. Stylolites appear unfilled by graphite, and black graphitic? laminae occur near top and bottom. No apparent sulphides. Minor carbonate veins. B.C.A. = 60°. Gradational base.   | No. 3? |       |    |       |           |       |       |      |       |       |       |        |
| 246.1        | 258.5 | 12.4     | 100 | <u>SILTSTONE, MINOR DOLOMITE, SPARSE TUFF AND GRAPHITIC SHALE</u><br>Generally light grey to mid grey fine to medium grained locally calcareous siltstone, with minor weakly stylolitic poorly bedded dolomite bands near the base. Graphitic shale occur at 251.0 - 251.5m and contains abundant white carbonate veins, and has a diffuse base. Shale is very broken 251.2 - 251.4m. Cream-grey to yellow-grey cherty siltstone bands up to 2cm thick occur sporadically from 253.5m, and generally have a fine to gritty tuffaceous laminae at their base. Some of these cherty siltstones contain finely disseminated pyrite. An isolated gritty tuff lamina occurs at 257.0m. These bands are very similar to those below the No. 3 on the Mining Lease, and this unit is therefore assumed to be Dalcoath Member. Note however, the presence of further dolomite beds below this unit. B.C.A. = 60° - 70°. Sharp, planar base. | DM     |       |    |       |           |       |       |      |       |       |       |        |
| 258.5        | 271.4 | 12.9     | 100 | <u>SILTSTONES, DOLOMITE</u><br>Interbedded grey, medium grained calcareous siltstone, light grey fine to medium grained siliceous siltstone, dark grey carbonaceous calcareous siltstone, and light grey stylolitic weakly bedded dolomite. A solitary cherty siltstone band with a pyritic tuffaceous lamina at the base occurs at 266.2m. Pyrite laminae and aggregates occur sporadically throughout. Carbonate veins are common 258.5 - 265.5m. Brecciated, and veined by carbonate, 267.7-267.8m. B.C.A. = 60° - 70°.  | IM     |       |    |       |           |       |       |      |       |       |       |        |
| 271.4        | 283.6 | 12.2     | 100 | <u>CALCAREOUS, PYRITIC BLACK SHALE, AND SILICEOUS SILTSTONE</u><br>Strongly calcareous fine laminated pyritic black shale interbedded with light grey non-calcareous fine grained siltstone. Calcareous content decreases towards the end of the unit. Minor weakly stylolitic dolomite occurs near the middle of the unit. Pyrite occurs throughout as extremely fine to medium grained laminae, aggregates and wisps, generally in the black shales, but to a lesser extent in the siltstones. Minor quartz-carbonate veins throughout.   | DM     |       |    |       |           |       |       |      |       |       |       |        |

881041

DIAMOND DRILL RECORD

HOLE NUMBER : S705

LOGGED BY : LHB

NWPS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM. | % Sn. |    |       |           |       |       |      |       |       |       |        |
|--------------|-------|----------|-----|--|-------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO    | m        | %   |  |       | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
|              |       |          |     | Microfaulting and slumping occur sporadically. Diffuse base.<br>B.C.A. = 50° - 70°.  |       |       |    |       |           |       |       |      |       |       |       |        |
| 283.6        | 300.6 | 17.0     | 100 | <u>SILTSTONE, SHALE AND MINOR QUARTZITE</u><br>Interbedded light grey and dark grey fine to medium grained siltstone, locally in graded beds with one grading into the other, interbedded with thin weakly laminated non-calcareous black shale bands and minor grey medium grained quartzite bands. Microfaulting and slumping are common, some "soft pebble" formation is evident. Cross-bedded siltstone units occur sporadically. Minor fine carbonate veinlets occur throughout, becoming less common towards the end of the unit. Pyrite aggregates occur sporadically. Broken ground 285.6 - 285.8m, and 286.1 - 286.4m. B.C.A. = 70°.  | DM    |       |    |       |           |       |       |      |       |       |       |        |
| 300.6        | 321.3 | 20.7     | 100 | <u>SILTSTONE, QUARTZITE AND SANDSTONE, MINOR SHALE.</u><br>Interbedded massive locally stylolitic fine grained hard white to light grey quartzite, light and dark grey fine to medium grained bedded and laminated siltstone and fine to medium grained (in graded beds) siliceous silty sandstone. Rocks are very contorted to brecciated 312.3 - 314.2 and 319.2 - 320.1m with abundant quartz and carbonate in veins. Minor finely laminated pyritic black shale bands occur sporadically throughout. Quartzites near top of unit are locally gritty, and contain wispy graphitic fragments. At 302.9m, the quartzite contains angular siltstone fragments. Minor carbonate veins throughout. B.C.A. = 60°. | DM    |       |    |       |           |       |       |      |       |       |       |        |
| 321.3        | 333.4 | 12.1     | 100 | <u>QUARTZITE, MINOR SHALE</u><br>Massive, and poorly bedded light grey fine grained to gritty quartzite locally containing abundant black graphitic wisps, and towards the end of the unit, grey-brown cherty siltstone fragments. Black graphitic shale laminae occur sporadically. Quartz-carbonate veins up to 2cm thick (generally < 5mm) occur throughout. Quartzite appears locally weakly stylolitic, stylolites defined by fine graphitic laminae. B.C.A. 60° - 70°.   | DM    |       |    |       |           |       |       |      |       |       |       |        |
|              |       |          |     | END OF HOLE AT 333.4m.   |       |       |    |       |           |       |       |      |       |       |       |        |

881042

RENISON LIMITED  
DIAMOND DRILL HOLE PLOT

SCALE:

HOLE No.: S 705

PETROLOGICAL DESCRIPTION

REPORT CMS 81/2/1

SAMPLE NO.

239.7m

CLASSIFICATION - COMPOSITION

Dolomite Breccia. Irregular clasts porcellanous to microcrystalline dolomite, pyritic dolomite, pyrite aggregates. Cemented with microcrystalline to sparry dolomite, disseminated quartz grains.

FABRIC

Sand to grit-sized, weakly orientated clasts; corroded quartz, sand grains. Locally nodular pyrite.

ACCESSORIES

Occasional carbonaceous dolomite clasts, pyritic, chalcedonic vugs (partly recrystallised).

COMMENTS

In contact with sericitic, weakly carbonaceous silty shale. Intraformationally brecciated, pyritic carbonaceous dolomite/sandy dolomite.

WHP 88408

881043

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 \* RENISON LIMITED \*  
 \* DRILL CORE RECORD \*  
 \* HOLE NO. S835 \*  
 \*\*\*\*\*

LOCATION : ARGENT AREA  
 PURPOSE : TO TEST MINE SEQUENCE  
 COLLAR RL : 2423.44 M.  
 NORTHING : 20151.48 M.  
 EASTING : 13200.88 M.

LENGTH : 338.90 M.  
 DATE COMMENCED : 09/04/81  
 DATE COMPLETED : 20/05/81  
 LOGGED BY : P. STEPHENSON  
 WATER LEVEL :

HOLE SIZE  
 FROM TO SIZE

SIGNIFICANT CORE LOSS ZONES

FROM TO % LOSS  
 0.00 89.30 53

ORE ZONE GROUND CONDITIONS

ZONE  
 NO.2 HORIZON

MECHANICAL STATE  
 CORE LOSS

HANGING WALL

EARTH SCIENCE COMPUTER  
 SERVICES PTY. LIMITED

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COLLARED IN RRM - VERY BROKEN SILTSTONES AND TUFFS WITH VERY MINOR RED  
 CHERTS. GROUND CONDITIONS CAUSED CONSIDERABLE DRILLING DIFFICULTIES.  
 NO.2 HORIZON - 4M OF (?CARBONATE) GOSSAN, BUT ONLY 0.05M RECOVERED.  
 RRM APPROX. 85M THICK - LITHOLOGY AS IN MINE AREA. PEBBLE BEDS  
 REPRESENTED BY MINOR GRITTY BANDS.  
 NO. 3 HORIZON - THICK DIVIDED DOLOMITE, NO. 3 UPPER (19M THICK) AND NO. 3  
 LOWER (12M THICK) SEPARATED BY 27M OF SILTSTONE. BOTH DOLOMITES  
 UNMINERALIZED ALTHOUGH VERY MINOR RECRYSTALLISED DOLOMITE IN THE NO. 3  
 UPPER.

ASSAY DATA SUMMARY

| STRAT | FROM<br>(M) | TO<br>(M) | LENGTH<br>(M) | Sn<br>(%) | ANL Sn<br>(%) | SOL Sn<br>(%) | Cu<br>(%) | Pb<br>(%) | Zn<br>(%) | As<br>(G/T) | Bi<br>(%) | As<br>(%) | W03<br>(%) | S<br>(%) | Sb<br>(%) |
|-------|-------------|-----------|---------------|-----------|---------------|---------------|-----------|-----------|-----------|-------------|-----------|-----------|------------|----------|-----------|
| 260   | 83.70       | 88.30     | 4.60          | 0.00      |               | 0.00          | 0.11      | 0.00      | 0.01      | 1.          | 0.010     | 0.05      | 0.02       | 0.05     |           |

SURVEY DATA

| SURVEY DEPTH<br>(M) | BEARING<br>(DEG) | GRID TYPE | DIP<br>(DEG) | DIP TYPE | DEPTH TO<br>(M) | DISTANCE<br>(M) |
|---------------------|------------------|-----------|--------------|----------|-----------------|-----------------|
| 0.00                | 240.50           | MINE      | -80.15       |          | 49.80           | 49.80           |
| 99.60               | 221.00           | MINE      | -78.25       |          | 124.80          | 75.00           |
| 150.00              | 243.00           | MINE      | -78.00       |          | 175.00          | 50.20           |
| 200.00              | 247.00           | MINE      | -78.75       |          | 234.00          | 59.00           |
| 268.00              | 252.00           | MINE      | -78.75       |          | 284.00          | 50.00           |
| 300.00              | 254.00           | MINE      | -78.00       |          | 319.45          | 35.45           |
| 338.90              | 260.00           | MINE      | -78.00       |          | 338.90          | 19.45           |

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RENISON LIMITED

| FLAG | DEPTH  | RECOVERED THICKNESS | % REC | ROCK TYPE             | GEOLOGICAL DESCRIPTION OF STRATA  | STRAT |
|------|--------|---------------------|-------|-----------------------|---|-------|
|      | 6.50   | 1.90                | 29.2  | CLAYSTONE             | CLAYSTONE: RED, SOFT, VERY BROKEN PATCHES, AND VERY POOR RECOVERY.  | RRM   |
|      | 8.40   | 0.12                | 6.3   | AGGLOMERATE           | AGGLOMERATE: PURPLE, CLAYEY, SOFT, BROKEN, POOR RECOVERY.<br>SILTSTONE FRAGMENTS: GREEN - BUFF.   | RRM   |
|      | 16.00  | 4.70                | 61.8  | TUFF                  | TUFF: GREEN - BROWN, FINE GRAINED, CLAYEY, OXIDISED, SOFT, MODERATELY<br>FRACTURED.<br><br>MINERALIZATION: CHLORITE, QUARTZ, FELDSPAR IN FRACTURES.<br>ROCK: BROKEN, WITH POOR RECOVERY.  | RRM   |
|      | 23.80  | 6.50                | 83.3  | SILTSTONE             | SILTSTONE: LIGHT GREEN - LIGHT GREY, CONTORTED BEDDING,<br>FRAGMENTED BEDDING BANDS INTERMIXED, B.C.A.= 50 DEGREES,<br>ROCK: BROKEN, FRACTURED, COMMON CHLORITE IN FRACTURES,<br>MINOR PURPLE PATCHES.  | RRM   |
|      | 30.00  | 3.20                | 51.6  | SILTSTONE             | SILTSTONE: BLACK, FRACTURED, CONTORTED BEDDING, FRAGMENTED BEDDING,<br>B.C.A.= 45 DEGREES, SHARP BASE,<br>AT 26.0M - 6X3CM ROUNDED "BOMB" OF SOFT ?VESICULAR. VOLCANIC ROCK,<br><br>MINERALIZATION: TRACE SULPHIDES REPLACING FRAGMENTS.  | RRM   |
|      | 39.00  | 5.00                | 55.6  | SILTSTONE             | SILTSTONE: ORANGE, BANDED, VERY BROKEN, B.C.A.= 45 DEGREES, WITH POOR<br>RECOVERY.<br><br>MINERALIZATION: ABUNDANT IRON OXIDES IN FRACTURES ON JOINTS.  | RRM   |
|      | 83.70  | 19.60               | 43.8  | TUFF AND<br>SILTSTONE | TUFF: PURPLE, FINE GRAINED, MASSIVE, SOFT.<br>SILTSTONE: PURPLE, SLIGHTLY WEATHERED.<br>ROCK: BANDED NEAR BASE OF UNIT, B.C.A.= 60 DEGREES, ROCK: BROKEN<br>THROUGHOUT, WITH VERY POOR RECOVERY.<br>CHERT: RED BANDS NEAR BASE OF UNIT.<br><br>MINERALIZATION: ABUNDANT IRON OXIDES IN FRACTURES, QUARTZ, IRON OXIDES<br>VEINS, BETWEEN 70.0 AND 81.5M. THESE WERE REPEATEDLY WASHED TO THE<br>BOTTOM OF THE HOLE AND CAUSED SUBSTANTIAL DRILLING PROBLEMS. | RRM   |
|      | 88.30  | 0.05                | 1.1   | GOSSAN                | GOSSAN: QUARTZOSE, HARD, VUGHY,<br>VIRTUALLY NO RECOVERY.   | 260   |
|      | 105.70 | 17.40               |       | SILTSTONE             | SILTSTONE: LIGHT GREY, WELL BEDDED, B.C.A.= 60 DEGREES, WEAKLY<br>CALCAREOUS.   | RRM   |

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SERVICES PTY, LIMITED

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RENISON LIMITED

AC-SER-PARADISE-PAKED Ref. No. 11112/BS

| FLAG | DEPTH  | RECOVERED THICKNESS | % REC | ROCK TYPE               | GEOLOGICAL DESCRIPTION OF STRATA   | STRAT |
|------|--------|---------------------|-------|-------------------------|--|-------|
|      |        |                     |       |                         | ROCK: VERY BROKEN NEAR TOP OF UNIT.  |       |
|      |        |                     |       |                         | MINERALIZATION: MINOR QUARTZ, CALCITE VEINS, MINOR RHODOCHROSITE.  |       |
|      | 112.60 | 6.90                |       | SILTSTONE               | SILTSTONE: DARK GREY, BEDDED, B.C.A.= 65 DEGREES.  | RBM   |
|      |        |                     |       |                         | MINERALIZATION: MINOR DOLOMITE VEINS, MINOR PYRITE PARALLEL TO BEDDING.  |       |
|      | 119.50 | 6.90                |       | DOLOMITE AND SILTSTONE  | DOLOMITE (60%): LIGHT GREY, FINE GRAINED, SILTY, STYLOLITIC.<br>SILTSTONE INTERMIXED (40%): DARK GREY, BEDDED, B.C.A.= 60 DEGREES.<br>ROCK: BROKEN, DISTURBED AND DISRUPTED BEDDING. | RB2   |
|      |        |                     |       |                         | MINERALIZATION: DOLOMITE VEINS, SPARSE PYRITE PARALLEL TO BEDDING, IN THE SILTSTONE ONLY.  |       |
|      | 166.50 | 47.00               |       | SILTSTONE AND QUARTZITE | SILTSTONE: LIGHT GREY - DARK GREY, WELL BEDDED, CONTORTED BEDDING, MINOR B.C.A.= 45 DEGREES.<br>QUARTZITE: LIGHT GREY, SILTY, MINOR.   | RBM   |
|      |        |                     |       |                         | MINERALIZATION: COMMON DOLOMITE VEINS, SPARSE PYRITE PARALLEL TO BEDDING   |       |
|      | 172.00 | 5.50                |       | QUARTZITE               | QUARTZITE: LIGHT GREY, EXTREMELY HARD, BEDDED, CONTORTED BEDDING, B.C.A.= 60 DEGREES.<br>SILTSTONE: DARK GREY, ABUNDANT LAMINAE.   | RBM   |
|      |        |                     |       |                         | MINERALIZATION: COMMON QUARTZ, DOLOMITE VEINS.   |       |
|      | 189.90 | 17.90               |       | QUARTZITE AND SILTSTONE | QUARTZITE (50%): LIGHT GREY, HARD, WELL BEDDED,<br>SILTSTONE INTERBEDDED (50%): DARK GREY, WELL BEDDED.<br>ROCK: CONTORTED BEDDING, CROSS BEDDING, MINOR B.C.A.= 45 DEGREES.         | RBM   |
|      |        |                     |       |                         | MINERALIZATION: MINOR DOLOMITE VEINS, SPARSE PYRITE PARALLEL TO BEDDING.   |       |
|      | 198.10 | 8.20                |       | SILTSTONE               | SILTSTONE: LIGHT GREY, FINE GRAINED, DOLOMITIC, HARD, B.C.A.= 40 DEGREES<br>MINOR THIN GRITTY BANDS FRAGMENTS COMMONLY REPLACED (?) BY PYRITE,                                       | RBM   |
|      |        |                     |       |                         | DOLOMITE: LIGHT GREY, FINE TO MEDIUM GRAINED, STYLOLITIC,<br>B.C.A.= 50 DEGREES.   | 300   |
|      |        |                     |       |                         | ROCK: ALTERED PATCHES, DOLOMITE: YELLOW, CRYSTALLINE, BETWEEN 220.0 AND 221.0M (NO SULPHIDES).   |       |

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RENISON LIMITED

| FLAG | DEPTH  | RECOVERED THICKNESS | % REC | ROCK TYPE               | GEOLOGICAL DESCRIPTION OF STRATA  | STRAT |
|------|--------|---------------------|-------|-------------------------|---|-------|
|      |        |                     |       |                         | MINERALIZATION: COMMON DOLOMITE VEINS, TRACE SULPHIDES IN STYLOLITES.   |       |
|      | 228.00 | 3.60                | 78.3  | SILTSTONE               | SILTSTONE: BLACK, SHEARED, BROKEN, BANDED, B.C.A. = 60 DEGREES.   | DM    |
|      |        |                     |       |                         | MINERALIZATION: COMMON QUARTZ VEINS PATCHES, COMMON PYRITE PARALLEL TO BEDDING.   |       |
|      | 258.10 | 30.10               |       | SILTSTONE AND SILTSTONE | SILTSTONE (80%); LIGHT GREY, CALCAREOUS, BANDED.<br>SILTSTONE (20%); DARK GREY, BANDED, B.C.A. = 45 DEGREES.                                  | DM    |
|      |        |                     |       |                         | MINERALIZATION: ABUNDANT QUARTZ, DOLOMITE VEINS, SPARSE PYRITE PARALLEL TO BEDDING, IN THE DARK GREY SILTSTONES.                              |       |
|      | 273.40 | 15.30               |       | DOLOMITE                | DOLOMITE: LIGHT GREY, FINE GRAINED, STYLOLITIC.   | 3D0   |
|      |        |                     |       |                         | MINERALIZATION: MINOR QUARTZ, DOLOMITE VEINS, COMMON NEAR BASE OF UNIT.<br>ROCK: BROKEN, IN PLACES.   |       |
|      | 286.30 | 12.90               |       | SILTSTONE               | SILTSTONE: LIGHT GREY - GREY, BANDED, B.C.A. = 50 DEGREES, WEAKLY CALCAREOUS.<br>TUFF: LIGHT GREEN, SPARSE LAMINAE.                           | DM    |
|      |        |                     |       |                         | MINERALIZATION: MINOR PYRITE BLEBS, AND.  |       |
|      |        |                     |       |                         | MINERALIZATION: PARALLEL TO BEDDING, SPARSE QUARTZ VEINS.   |       |
|      | 286.40 | 0.10                |       | QUARTZ                  | QUARTZ: DISTURBED AND DISRUPTED BEDDING, QUARTZ VEINS.  | F?    |
|      | 313.50 | 27.10               |       | SILTSTONE               | SILTSTONE: LIGHT GREY - DARK GREY, WELL BEDDED, CROSS BEDDING, MINOR B.C.A. = 75 DEGREES, COMMON JOINTS PARALLEL TO BEDDING.                  | DM    |
|      |        |                     |       |                         | MINERALIZATION: SPARSE PYRITE PARALLEL TO BEDDING, MINOR QUARTZ VEINS NEAR TOP OF UNIT.   |       |
|      | 318.20 | 4.70                |       | QUARTZITE               | QUARTZITE: LIGHT GREY, FINE TO MEDIUM GRAINED, HARD, CROSS BEDDING.<br>ROCK: CALCAREOUS NEAR TOP OF UNIT.                                     | DM    |
|      |        |                     |       |                         | MINERALIZATION: MINOR QUARTZ, DOLOMITE VEINS.   |       |
|      | 326.70 | 8.50                |       | QUARTZITE AND SILTSTONE | QUARTZITE INTERBEDDED: LIGHT GREY,<br>SILTSTONE: LIGHT GREY - DARK GREY.<br>ROCK: LAMINATED, WELL BEDDED, CROSS BEDDING, B.C.A. = 50 DEGREES. | DM    |

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RENISON LIMITED

MOORE PARAGON PAPERS Ref. No. 11151215

| FLAG | DEPTH | RECOVERED<br>THICKNESS | %<br>REC | ROCK TYPE | GEOLOGICAL DESCRIPTION OF STRATA | STRAT |
|------|-------|------------------------|----------|-----------|----------------------------------|-------|
|------|-------|------------------------|----------|-----------|----------------------------------|-------|

MINERALIZATION: SPARSE PYRITE PARALLEL TO BEDDING, MINOR QUARTZ, DOLOMITE VEINS.

338.90 12.20

QUARTZITE AND SILTSTONE

QUARTZITE INTERMIXED; LIGHT GREY, CONTORTED BEDDING, DISTURBED AND DISRUPTED BEDDING.  
SILTSTONE; DARK GREY, CONTORTED BEDDING, DISTURBED AND DISRUPTED BEDDING  
ROCK: SHEARED, BROKEN, IN PLACES.

DM

MINERALIZATION: TRACE PYRITE STRINGERS, SPARSE QUARTZ, DOLOMITE VEINS.

END OF HOLE AT 338.90 M

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RENISON LIMITED

| STRAT | FROM (M) | TO (M) | CUTOFF | Sn (%) | ANL Sn (%) | SOL Sn (%) | Cu (%) | Pb (%) | Zn (%) | As (G/T) | Bi (%) | As (%) | WO3 (%) | S (%) | Sb (%) |
|-------|----------|--------|--------|--------|------------|------------|--------|--------|--------|----------|--------|--------|---------|-------|--------|
| 260   | 83.70    | 88.30  | 0      | <0.01  |            | <0.01      | 0.11   | <0.01  | 0.01   | <1.      | 0.010  | <0.10  | 0.02    | <0.10 |        |
| 3XD   | 220.00   | 221.00 |        |        |            | 0.02       |        |        |        |          |        |        |         |       |        |

REL NO. 1115 HQ

EARTH SCIENCE COMPUTER SERVICES PTY, LIMITED

HOLE NO: SB35  
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881050

# RENISON LIMITED - DRILL CORE RECORD

| HOLE NUMBER                 | Ø764  | Depth | SURVEY  |         | From To | Distance D | VERTICAL  |         | HORIZONTAL |             |
|-----------------------------|---|-------|---------|---------|---------|------------|-----------|---------|------------|-------------|
|                             |   |       | Bearing | Dip     |         |            | D.Sin.Dip | R.L.    | D.Cos.Dip  | Prog. Total |
| PURPOSE                     | To test Grand Prize fault   | 0.0   | 090.24° | -59.52° |         |            |           |         |            |             |
|                             |   | 48.5  | 094°    | -61.5°  |         |            |           |         |            |             |
|                             |   | 92.5  | 092.5°  | -61°    |         |            |           |         |            |             |
| LOCATION                    | Grand Prize, 200m S of S752   | 150.0 | 088°    | -61°    |         |            |           |         |            |             |
|                             |   | 203.4 | 089°    | -61.3°  |         |            |           |         |            |             |
| COLLAR R.L.                 | 2421.88   | 250.5 | 084°    | -57°    |         |            |           |         |            |             |
|                             |   | 288.4 | 073°    | -55.5°  |         |            |           |         |            |             |
| COORDINATES                 | 14231.75N 13379.14E   | 350.0 | 071°    | -57°    |         |            |           |         |            |             |
|                             |   | 400.0 | 068°    | -55.5°  |         | 50.0       | 41.21     | 2055.71 | 28.50      | 210.02      |
| LENGTH                      | 640.4m  | 450.0 | 064°    | -52.5°  |         |            |           |         |            |             |
|                             |   | 520.0 | 062.5°  | -46°    |         |            |           |         |            |             |
| HOLE SIZE                   | 0.0 - 255.0m BQ<br>- 464.0m NQ<br>- 640.4m BQ   | 553.0 | 052°    | -45.5°  |         |            |           |         |            |             |
|                             |   | 610.4 | 063°    | -45°    |         |            |           |         |            |             |
| DATE DRILLED                | 8.1.81 - 31.3.81  |       |         |         |         |            |           |         |            |             |
| SIGNIFICANT CORE LOSS ZONES | See Recoveries.   |       |         |         |         |            |           |         |            |             |
| ORE ZONE GROUND CONDITIONS  | Grand Prize Fault zone : broken, leached, with high core loss.<br>Conglomerate : firm, unbroken   |       |         |         |         |            |           |         |            |             |
| LOGGED BY                   | L.D. BOND   |       |         |         |         |            |           |         |            |             |
| COMMENTS                    | Intersected Grand Prize Fault, earlier than expected, at 331.3 - 355.4m, including a leached pyritic breccia 349.7 - 355.4m. From 444.4 - 446.5m is a skarn-like semi-massive pyrrhotite and chiastolite-shale-like black shale. From 461.3m to the end of the hole, is a partially to thoroughly axinite-actinolite-altered coarse conglomerate, containing locally common pyrrhotite, chalcopyrite, and traces of sphalerite. |       |         |         |         |            |           |         |            |             |

## 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 <sub>3</sub> | Ag g/t |     |        |
| GRAND PRIZE FAULT | 331.3 | 355.4 | 24.1       | 0.10                    | 0.01          | 0.14 | 0.09 | 1.3 | 0.10  | 0.20 | 0.004 | 0.01            | 2      |     |        |
| INCL:             | 349.7 | 355.4 | 5.7        | 0.20                    | 0.02          | 0.21 | 0.2  | 4.3 | 0.33  | 0.22 | 0.008 | 0.01            | 5      |     |        |
| "SKARN"           | 441.3 | 446.5 | 5.2        | 0.05                    | 0.03          | 0.74 | 40.1 | 5.5 | <0.01 | 0.04 | 0.011 | 0.03            | 7      | 70° |        |
| CONG. MIN'N       | 461.0 | 640.4 | 179.4      | 0.10                    | 0.02          | 0.06 | <0.1 | 1.2 | "     | 0.02 | 0.014 | 0.05            | 1      | 50° |        |
| INCL:             | 507.0 | 531.0 | 24.0       | 0.25                    | "             | 0.10 | "    | 1.8 | "     | 0.01 | 0.007 | 0.04            | 1      |     |        |

## DIAMOND DRILL RECORD

HOLE NUMBER : S764

LOGGED BY : LDS

NWFS

| INTERVAL (m) |      | RECOVERY |     | DESCRIPTION   | FORM. | % Sn. |    |       |           |       |       |      |       |       |       |        |
|--------------|------|----------|-----|---|-------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO   | m        | %   |   |       | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
| 0.0          | 14.3 | 12.2     | 85  | MODERATELY WEATHERED INTERBEDDED SILTSTONE AND GRIT<br>Slightly clayey, purple-grey, fine grained, moderately weathered, moderately well bedded siltstone interbedded with leached and slightly friable gritty lithic tuff? in weakly graded beds up to 5cm thick. Core loss is largely restricted to 0-3.0m (8% loss) with a further 0.6m lost in broken and clayey ground between 7.6 and 9.0m. Siltstone beds are locally fragmented, and flaser bedding occurs occasionally. BCA = 40-45°. Clayey and iron oxides coat most joints, but rocks are generally only slightly iron stained. | DG    |       |    |       |           |       |       |      |       |       |       |        |
| 14.3         | 31.1 | 16.7     | 99  | INTERBEDDED SILTSTONE AND GRIT<br>Green-grey to purple-grey fine grained soft, clayey siltstone, interbedded with green-grey to purple-grey medium grained (gritty) tuffaceous sandstone in weakly graded beds up to 20cm thick. Minor fragmented bedding. BCA consistently 40-45°. Rocks are slightly leached and weakly iron stained 26.0 - 27.2m, but there is no core loss. Diffuse base.   | DG    |       |    |       |           |       |       |      |       |       |       |        |
| 31.1         | 32.5 | 1.2      | 86  | BROKEN AND PARTLY WEATHERED ZONE<br>Broken to very broken interbedded siltstones and tuffaceous sandstones as previous unit, with clayey, leached and ironstained bands. From 31.1 - 31.4m rock is very clayey ferruginous (altered) grit, with some core loss at 31.4m. Broken quartz vein at 31.8m has a puggy and ironstained base. BCA 40°.   | DG    |       |    |       |           |       |       |      |       |       |       |        |
| 32.5         | 33.8 | 1.3      | 100 | CONGLOMERATE<br>Poorly sorted well rounded green, cream and purple-grey elongate pebbles up to 1cm in a green gritty tuffaceous matrix. Rock is weakly graded (fining up-hole). Sharp planar base.  | DG    |       |    |       |           |       |       |      |       |       |       |        |
| 33.8         | 37.6 | 3.7      | 28  | INTERBEDDED SILTSTONE AND GRIT<br>Pale green-grey interbedded fine grained siltstone and fine to medium grained tuffaceous sandstone. Minor ironstaining about joints. Grits weakly graded. Diffuse base. BCA 40°.  | DG    |       |    |       |           |       |       |      |       |       |       |        |
| 37.6         | 38.1 | 0.5      | 100 | BROKEN ZONE<br>Very broken to slightly weathered siltstones and grits. No core loss.  | DG    |       |    |       |           |       |       |      |       |       |       |        |
| 38.1         | 40.9 | 2.8      | 100 | INTERBEDDED SILTSTONE AND GRIT<br>Light green-grey fine grained siltstone and fine to medium grained tuffaceous sandstone in weakly graded beds up to 10cm thick. Traces of pyrrhotite on joints in tuffaceous bands, BCA = 40°.  | DG    |       |    |       |           |       |       |      |       |       |       |        |

881052





## DIAMOND DRILL RECORD

HOLE NUMBER : S764

LOGGED BY : LJB

NWPS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION   | FORM           | % Sn. |    |       |           |       |       |      |       |       |       |        |
|--------------|-------|----------|-----|---|----------------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO    | m        | %   |   |                | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
| 148.8        | 202.9 | 53.2     | 98  | CONGLOMERATE<br>Generally fine to medium (2-6mm) conglomerate containing crimson, pink, white, grey, green, and yellow chert, siltstone, and tuff angular to subrounded fragments densely packed in a green-grey sandy (?tuffaceous) matrix. Coarse bands with cobbles up to 5cm across occur sporadically, and these are generally very leached, and vuggy, occasionally broken. At 167.6m is a 5cm pink porphyritic granite fragment, and at 166.2m, a pink ?rhyolite containing disseminated pyrite. Between 157.2 and 159.1m, the conglomerate is very leached and partially iron stained, appearing a khaki colour. Elsewhere, iron oxides coat joints. The BCA as indicated by preferred orientation of clasts is variable between 0° and 60°, but tends to lie at 40° to C.A. At 153.6m is a slightly leached and moderately ironstained quartz vein, containing vitreous goethite (after pyrite?). At 199.8m is a vuggy pyrite-quartz-goethite vein and at 201.7 - 201.8m is a broken earthy goethite vein? Between 173.8 and 174.5m, and 182.5 and 183.4m are fine to coarse (weakly graded) tuff beds, with sharp, planar basal contacts, and irregular (reworked) upper contacts. Minor patches of broken, clayey ground 196.4 - 196.7m, and 197.4 - 197.6m, with minor core losses. | DG             |       |    |       |           |       |       |      |       |       |       |        |
| 202.9        | 207.1 | 0.3      | 7   | CLAY<br>Extremely poor recovery in brown clay. Minor conglomerate fragments in clay near end of unit.   | DG?/<br>FAULT? |       |    |       |           |       |       |      |       |       |       |        |
| 207.1        | 225.8 | 16.3     | 87  | CONGLOMERATE<br>Light grey fine to coarse conglomerate composed of tabular sub-angular to subrounded cream, grey, white, and green-grey chert, and cherty siltstone clasts and (with notable absence of crimson and red chert, and with only minor acid to intermediate volcanics), in a clayey matrix. Rocks are weakly leached, and locally very broken, with moderate core losses, particularly near top and base of unit. Towards the end of the unit (from about 220m onward) are several disrupted siltstone beds up to 10cm thick. Minor quartz veinlets throughout, generally about 80° to CA. Sparse goethite veins (after sulphides?). Locally distinct preferred clast orientation indicates BCA = 40°.  | DG             |       |    |       |           |       |       |      |       |       |       |        |
| 225.8        | 238.5 | 12.7     | 100 | SILTSTONE (85%) AND ?TUFF (15%)<br>Interbedded (bleached?) cream-grey fine grained poorly bedded siltstone and fine to medium grained dark grey spotted (weakly altered, arinitised spots in chlorite groundmass) massive ?tuff   | DG             |       |    |       |           |       |       |      |       |       |       |        |

881055

DIAMOND DRILL RECORD

HOLE NUMBER : 5764

LOGGED BY : LNB

MWPS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM | % Sn. |       |       |           |       |       |       |       |       |        |        |                   |
|--------------|-------|----------|-----|--|------|-------|-------|-------|-----------|-------|-------|-------|-------|-------|--------|--------|-------------------|
| FROM         | TO    | m        | %   |  |      | FROM  | TO    | TOTAL | ACID SOL. | % Cu. | % As. | % S.  | % Pb. | % Zn. | % Bi.  | g/t Ag | % WO <sub>3</sub> |
|              |       |          |     | interbeds up to 4cm thick, becoming slightly more abundant, and more thickly bedded towards end of unit. Rock is moderately to extremely broken throughout, with minor serpentinitic (or sericitic?) veins, and clay seams. Trace pyrite on joints. Diffuse base. BCA = 40°.   |      |       |       |       |           |       |       |       |       |       |        |        |                   |
| 238.5        | 292.0 | 53.5     | 100 | INTERBEDDED SILTSTONE AND ?TUFF  | DG   |       |       |       |           |       |       |       |       |       |        |        |                   |
|              |       |          |     | Dark grey massive fine grained poorly bedded siltstone, interbedded with fine to medium grained spotted (axinite?) dark grey ?tuff in beds up to 1m thick. Abundance of ?tuff increases gradually from about 20% to 50% towards end of unit. The tuff is associated with leached (vuggy, clayey) axinite + actinolite veinlets, and bands (up to 5cm thick, parallel to bedding). Irregular aggregates of axinite occur sporadically within ?tuff in bands. Rocks are locally very broken, and clayey, but core loss is negligible. Bedding is locally weakly contorted, with BCA 40-60°, and occasionally disrupted. Sparse quartz veins, minor pyrite on joints. Diffuse base. |      |       |       |       |           |       |       |       |       |       |        |        |                   |
| 292.0        | 331.3 | 36.9     | 94  | INTERBEDDED SILTSTONE AND TUFF   | DG   |       |       |       |           |       |       |       |       |       |        |        |                   |
|              |       |          |     | Intermixed ?tuff/siltstone as previous unit and bleached brown-grey to cream-grey ?tuff/siltstone, in irregular patches increasing in extent and abundance towards end of unit. Beyond about 309m, the rocks become progressively more broken, and puggy, gravelly zones up to 50cm thick are common; some core loss occurs between 319 and 331.3m. BCA = 50°. Base poorly recovered.  |      |       |       |       |           |       |       |       |       |       |        |        |                   |
| 331.3        | 334.4 | 0.8      | 26  | FERRUGINOUS SILTSTONE, MINOR BRECCIA   | GFF  | 331.3 | 333.3 | <0.01 | 0.01      | 0.05  | <0.1  | <0.1  | <0.01 | 0.34  | <0.008 | 1      | 0.02              |
|              |       |          |     | Orange-brown ferruginous fine grained siltstone, with minor ferruginous breccia near base of unit. Small patch of grey, clayey siltstone near middle of unit. Core loss is extensive, appearing evenly distributed through unit. No distinct bedding. Minor goethite on joints and fractures.  |      |       |       |       |           |       |       |       |       |       |        |        |                   |
| 334.4        | 343.2 | 3.5      | 40  | WEATHERED, LEACHED CLAYSTONE AND GRIT  | GFF  | 333.3 | 335.3 | 0.01  | <0.01     | 0.03  | <0.01 | <0.1  | <0.01 | 0.28  | 0.005  | <1     | 0.02              |
|              |       |          |     | Yellow to ochre clay leached siltstone interbedded with fine to medium grit. Patches of massive clay occur sporadically. Core loss uniformly high. BCA = 50° at 340.5m. Minor leached goethite veins,  |      |       | 336.4 | <0.01 | <0.01     | 0.03  | <0.01 | <0.1  | <0.01 | 0.23  | 0.002  | 1      | <0.01             |
|              |       |          |     |  |      |       | 337.4 | <0.01 | <0.01     | 0.04  | <0.1  | <0.1  | <0.01 | 0.24  | 0.003  | 1      | 0.01              |
|              |       |          |     |  |      |       | 338.4 | <0.01 | <0.01     | 0.04  | <0.1  | <0.1  | <0.01 | 0.21  | 0.003  | <1     | 0.01              |
|              |       |          |     |  |      |       | 339.4 | <0.01 | <0.01     | 0.05  | <0.1  | <0.1  | <0.01 | 0.24  | 0.003  | 1      | 0.01              |
|              |       |          |     |  |      |       | 340.4 | <0.01 | <0.01     | 0.04  | <0.1  | <0.1  | <0.01 | 0.20  | 0.002  | <1     | <0.01             |
| 343.2        | 349.7 | 3.8      | 58  | WEATHERED, LEACHED GRIT, MINOR CONGLOMERATE?   | GFF  | 341.4 | 0.03  | <0.01 | 0.07      | <0.1  | 0.5   | <0.01 | 0.19  | 0.001 | 1      | <0.01  |                   |
|              |       |          |     | Yellow-brown, red-brown, and dark brown locally clayey leached fine to medium grit, with minor conglomerate? near base of unit. Bands  |      |       | 342.4 | <0.01 | <0.01     | 0.05  | <0.1  | <0.1  | <0.01 | 0.15  | 0.001  | 1      | <0.01             |
|              |       |          |     |  |      |       | 343.4 | <0.01 | <0.01     | 0.11  | <0.1  | <0.1  | <0.01 | 0.11  | 0.001  | <1     | <0.01             |

881056

DIAMOND DRILL RECORD

HOLE NUMBER : S764

LOGGED BY : LDB

HWYS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM  | % Sn. |       |       |           |       |       |      |       |       |       |        |                   |  |
|--------------|-------|----------|-----|--|-------|-------|-------|-------|-----------|-------|-------|------|-------|-------|-------|--------|-------------------|--|
| FROM         | TO    | m        | %   |  |       | FROM  | TO    | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |  |
|              |       |          |     | of dense goethitic clay occur sporadically. Core loss fairly uniform. Minor leached goethite veins. Sparse patches of siliceous altered conglomerate/or grit. Indistinct, poorly recovered base.   |       | 343.4 | 344.4 | <0.01 | <0.01     | 0.05  | <0.1  | <0.1 | <0.01 | 0.10  | 0.007 | 2      | <0.01             |  |
|              |       |          |     |  |       |       | 345.4 | <0.01 | <0.01     | 0.07  | <0.1  | <0.1 | <0.01 | 0.07  | 0.001 | 1      | <0.01             |  |
|              |       |          |     |  |       |       | 346.4 | 0.26  | <0.01     | 0.09  | <0.1  | <0.1 | <0.01 | 0.13  | 0.005 | 1      | <0.01             |  |
|              |       |          |     |  |       |       | 347.4 | 0.24  | 0.01      | 0.09  | 0.1   | <0.1 | <0.01 | 0.25  | 0.003 | 1      | 0.01              |  |
| 349.7        | 355.4 | 1.2      | 21  | PYRITIC BRECCIA  | GPF   |       | 348.4 | 0.12  | 0.01      | 0.14  | 0.3   | <0.1 | <0.01 | 0.29  | 0.003 | 1      | 0.01              |  |
|              |       |          |     | Grey-green pyritic mylonite? containing subrounded grit and siltstone fragments up to 2cm across. Ground is very broken to unconsolidated, with extremely high core losses. Contacts not recovered.  |       |       | 349.4 | 0.21  | 0.01      | 0.15  | 0.4   | <0.1 | <0.01 | 0.24  | 0.002 | 2      | 0.02              |  |
|              |       |          |     |  |       |       | 350.4 | 0.06  | 0.01      | 0.21  | 0.5   | <0.1 | <0.01 | 0.29  | 0.007 | 5      | 0.03              |  |
|              |       |          |     |  |       |       | 351.4 | 0.36  | 0.03      | 0.37  | 0.2   | 74   | 0.04  | 0.16  | 0.010 | 6      | 0.01              |  |
|              |       |          |     |  |       |       | 352.4 | 0.45  | 0.03      | 0.36  | 0.2   | 12.7 | 0.46  | 0.16  | 0.010 | 5      | 0.01              |  |
| 355.4        | 379.6 | 17.4     | 72  | SILTSTONE  | DG    |       | 353.4 | 0.29  | 0.02      | 0.69  | <0.1  | 2.5  | 0.70  | 0.16  | 0.011 | 8      | 0.01              |  |
|              |       |          |     | Dark to mid grey moderately hard fine grained finely to medium-bedded siltstone, with bands of puggy cream clay (altered actinolite) locally containing pyrite. Pyrite is common along bedding, and locally in veinlets. Ground is moderately broken throughout, but becoming less so towards the end of the unit. Core loss is restricted to broken zones between 355.4 and 367m. Minor white clay on joints. BCA = 70-80°. A band of yellow-green serpentine-like rock occurs between 374.4 and 374.8m, and contains irregular aggregates of pyrite and chlorite. The rocks between 374.8 and 377.7m are quite dark, and may be strongly chloritised. Aggregates and veins of pyrite are common within this zone. Ground is broken 375.1 - 377.2m. |       |       | 354.4 | 0.09  | 0.02      | 0.14  | <0.1  | 2.9  | 0.68  | 0.42  | 0.009 | 4      | <0.01             |  |
|              |       |          |     |  |       |       | 355.4 | 0.03  | 0.02      | 0.09  | <0.1  | 0.2  | 0.09  | 0.14  | 0.002 | 1      | <0.01             |  |
| 379.6        | 441.3 | 61.7     | 100 | SILTSTONE  | DG    |       |       |       |           |       |       |      |       |       |       |        |                   |  |
|              |       |          |     | Dark grey to brown-grey finely to medium bedded fine to medium grained hard (quartzitic?) siltstone. Minor bands of fine actinolite-coarse axinite + pyrrhotite up to 10cm thick. Minor pyrite along bedding, and in veinlets. Sparse pyrite on joints. Thin gritty bands become common towards base of unit. Minor microfaulting throughout. BCA = 70°. Sharp base : with the appearance of being weakly brecciated.  |       |       |       |       |           |       |       |      |       |       |       |        |                   |  |
| 441.3        | 442.6 | 1.3      | 100 | SEMI-MASSIVE SULPHIDE  | DG?SM | 441.3 | 442.3 | 0.06  | 0.03      | 1.11  | 0.1   | 17.1 | <0.01 | 0.06  | 0.020 | 9      | 0.06              |  |
|              |       |          |     | Between 441.3 and 442.0m, irregular masses, aggregates and minor veins of pyrrhotite, common chalcocopyrite, in an actinolite-chlorite-carbonate gangue, intermixed with black calcareous chloritized(?) siltstone. From 442.0 - 442.6m, the sulphides (pyrrhotite, chalcocopyrite) appear to be selectively replacing beds within the siltstone, and concentration of sulphide varies from sparse disseminations to fine grained massive bands. Crosscutting stringers and veinlets are common. The host rock appears to be a chloritized (green to black) calcareous siltstone. BCA = 60°. Diffuse base.   |       |       |       |       |           |       |       |      |       |       |       |        |                   |  |

881057

## DIAMOND DRILL RECORD

HOLE NUMBER : 5764

LOGGED BY : LJB

NWPS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM   | % Sn  |       |       |          |      |      |      |       |       |       |        |                   |
|--------------|-------|----------|-----|--|--------|-------|-------|-------|----------|------|------|------|-------|-------|-------|--------|-------------------|
| FROM         | TO    | m        | %   |  |        | FROM  | TO    | TOTAL | ACID SOL | % Cu | % As | % S  | % Pb  | % Zn  | % Bi  | g/t Ag | % WO <sub>3</sub> |
| 442.6        | 444.4 | 1.8      | 100 | <p>CALCAREOUS ALTERED SILTSTONE</p> <p>Distinctly bedded strongly calcareous finely bedded fine to medium grained black to dark grey siltstone. The rock is quite soft, and is probably thoroughly chloritized. Highly altered (actinolite-carbonate-pyrrhotite-chalcocopyrite) bands of conglomerate up to 3cm thick occur sporadically, and isolated calcareous pebbles up to 5mm across occur within the siltstone. Carbonate, and pyrrhotite-chalcocopyrite veins and stringers occur occasionally throughout. Sparse to minor very fine grained pyrrhotite and chalcocopyrite occur disseminated along bedding. Between 443.3 and 443.5m, unoriented laths and acicular crystals of pale ?chiastolite up to 1cm long are disseminated through the siltstone, and are partially ?replaced by pyrrhotite. Sharp irregular base. BCA = 60-70°.</p> | DG     | 442.3 | 443.3 | 0.06  | 0.07     | 1.18 | <0.1 | 6.0  | <0.01 | 0.08  | 0.012 | 10     | 0.04              |
|              |       |          |     |  |        |       | 444.3 | 0.05  | 0.02     | 0.31 | "    | 1.3  | "     | 0.03  | 0.007 | 3      | 0.02              |
| 444.4        | 446.5 | 2.1      | 100 | <p>SKARN?</p> <p>Weakly banded intermixed dark green actinolite, (and ?chlorite), light green-grey chlorite (or possibly ferrohastingsite) with sparse to minor aggregates of fine to medium grained chalcocopyrite and pyrrhotite, general in distinct bands. Darker blue-green-grey euhedral ?vesuvianite laths and grains are common throughout. Minor light yellowish green-grey microcrystalline(?) chlorite occurs in bands. The rock is quite calcareous, reacting vigorously with dilute acid. In general the rock appears quite similar to skarns intersected on Pine Hill and Commonwealth Hill; its mineralogy apart from the absence of garnet is similar. BCA (banding) at 445.6m : 70-80°.</p>   | DG SK? | 444.3 | 445.3 | 0.03  | 0.01     | 0.97 | <0.1 | 2.6  | <0.01 | 0.05  | 0.007 | 10     | 0.05              |
|              |       |          |     |  |        |       | 446.5 | 0.05  | 0.03     | 0.25 | "    | 1.3  | "     | 0.01  | 0.008 | 4      | 0.02              |
| 446.5        | 461.3 | 14.8     | 100 | <p>SILTSTONE, MINOR CONGLOMERATE</p> <p>Massive and indistinctly bedded fine to medium grained dark brown-grey siltstone, with interbedded conglomeratic siltstone and conglomerate in bands up to 5cm thick from 456.1 - 461.3m. The conglomerate is poorly sorted and matrix-rich, and consists of well rounded quartz, chert, siltstone and tuff in a partly actinolitised siltstone matrix. The pebbles are partly replaced by pyrrhotite and sparse chalcocopyrite, with axinite occurring in both pebbles and matrix. "Pebbles" range from 3mm to 20mm, with a mode of about 5mm. Actinolite-axinite veins occur from 458.5m to 461.3m. The basal contact is sharp and subplanar. BCA (indistinct) = 70°.</p>  | DG     | 461.0 | 462.0 | 0.07  | 0.05     | 0.10 | <0.1 | 3.9  | <0.01 | 0.03  | 0.007 | 1      | 0.02              |
|              |       |          |     |  |        |       | 463.0 | 0.13  | "        | 0.09 | "    | 3.2  | "     | 0.02  | "     | 1      | 0.03              |
|              |       |          |     |  |        |       | 464.0 | 0.12  | 0.07     | 0.10 | "    | 4.5  | 0.04  | 0.01  | 0.194 | 2      | "                 |
|              |       |          |     |  |        |       | 465.0 | 0.06  | 0.02     | 0.05 | "    | 1.6  | <0.01 | "     | 0.007 | 1      | 0.01              |
|              |       |          |     |  |        |       | 466.0 | 0.12  | 0.03     | 0.08 | "    | 1.4  | "     | "     | 0.008 | <1     | 0.02              |
|              |       |          |     |  |        |       | 467.0 | 0.04  | "        | 0.04 | "    | 0.5  | "     | <0.01 | "     | <1     | "                 |
|              |       |          |     |  |        |       | 468.0 | 0.05  | "        | 0.05 | "    | 1.7  | "     | 0.01  | "     | 1      | "                 |
|              |       |          |     |  |        |       | 469.0 | "     | 0.02     | 0.06 | "    | 1.5  | "     | 0.01  | 0.007 | <1     | 0.01              |
|              |       |          |     |  |        |       | 470.0 | 0.02  | 0.01     | 0.05 | "    | 0.6  | "     | <0.01 | "     | <1     | "                 |
|              |       |          |     |  |        |       | 471.0 | 0.05  | 0.01     | 0.12 | "    | 0.8  | "     | "     | "     | 2      | "                 |
|              |       |          |     |  |        |       | 472.0 | 0.07  | 0.03     | 0.05 | "    | 1.2  | "     | 0.01  | "     | 1      | 0.02              |
| 461.3        | 464.4 | 179.1    | 100 | <p>CONGLOMERATE, SPARSE GRIT AND SILTSTONE</p> <p>Poorly sorted, matrix-poor fine to coarse conglomerate interbedded with sparse brown cherty grit, and green to brown massive fine grained siltstone. The conglomerate consists of rounded to subangular fragments of quartz, quartzite, chert, siltstone (fine to medium</p>   | DG     | 473.0 | 474.0 | 0.06  | 0.01     | 0.06 | "    | 1.1  | "     | "     | 0.005 | 2      | 0.01              |
|              |       |          |     |  |        |       | 474.0 | 0.07  | "        | 0.03 | "    | 0.5  | "     | "     | 0.006 | 1      | "                 |
|              |       |          |     |  |        |       | 475.0 | <0.01 | 0.02     | "    | "    | <0.1 | "     | <0.01 | "     | 2      | "                 |
|              |       |          |     |  |        |       | 476.0 | 0.02  | 0.01     | 0.04 | "    | 0.2  | "     | 0.04  | "     | 1      | 0.02              |
|              |       |          |     |  |        |       | 477.0 | 0.07  | "        | 0.08 | "    | 1.5  | "     | <0.01 | 0.008 | <1     | 0.01              |

881058

## DIAMOND DRILL RECORD

HOLE NUMBER : S764

LOGGED BY : LDB

| INTERVAL (m) | RECOVERY |    | DESCRIPTION  | FORM | % Sn  |       |      |       |       |          |       |       |       |       |       |       |
|--------------|----------|----|--|------|-------|-------|------|-------|-------|----------|-------|-------|-------|-------|-------|-------|
|              | FROM     | TO |  |      | m     | %     | FROM | TO    | TOTAL | ACID SOL | % Cu. | % As. | % S.  | % Pb. | % Zn. | % Bi. |
|              |          |    | grained massive and finely bedded) tuff, and sandstone-grit in an      |      | 477.0 | 478.0 | 0.09 | 0.02  | 0.08  | <0.1     | 2.1   | <0.01 | 0.01  | 0.007 | 1     | 0.01  |
|              |          |    | altered (see below) silty? matrix. At 537.2m, is a red-pink chert      |      |       | 479.0 | 0.07 | 0.03  | 0.04  | "        | 1.5   | "     | "     | "     | 1     | "     |
|              |          |    | pebble, similar to Red Rock Member cherts. From 590.0m, clasts of pink |      |       | 480.0 | 0.21 | 0.04  | 0.08  | "        | 2.7   | "     | "     | "     | 1     | 0.02  |
|              |          |    | to green (?sericitised) rhyolite and porphyritic microgranite up to    |      |       | 481.0 | 0.14 | "     | 0.09  | "        | 3.9   | 0.02  | 0.02  | 0.005 | 2     | 0.01  |
|              |          |    | 2cm across occur sporadically. BCA is indistinct, but appears to be    |      |       | 482.0 | 0.12 | 0.12  | 0.32  | 0.1      | 18.4  | 0.06  | 0.12  | 0.034 | 12    | 2.51  |
|              |          |    | 60°, decreasing to 45° towards the end of the unit.                    |      |       | 483.0 | 0.15 | "     | 0.20  | <0.1     | 11.0  | 0.11  | 0.28  | 0.010 | 5     | 0.05  |
|              |          |    | Alteration/mineralisation: the conglomerate is extensively altered     |      |       | 484.0 | 0.09 | 0.04  | 0.06  | "        | 1.5   | <0.01 | 0.02  | 0.006 | 1     | 0.04  |
|              |          |    | with actinolite and axinite occurring throughout the matrix in         |      |       | 485.0 | 0.05 | 0.01  | 0.04  | "        | 0.7   | "     | 0.01  | 0.007 | 1     | 0.02  |
|              |          |    | varying proportions. The clasts are generally strongly calcareous,     |      |       | 486.0 | 0.02 | 0.02  | 0.03  | "        | 0.4   | "     | "     | 0.008 | 1     | "     |
|              |          |    | and are locally weakly replaced to completely replaced by fine to      |      |       | 487.0 | 0.14 | "     | 0.06  | "        | 1.5   | "     | "     | 0.009 | 1     | "     |
|              |          |    | coarse grained pyrrhotite. Chalcopyrite is a common accessory          |      |       | 488.0 | 0.08 | <0.01 | 0.05  | "        | 1.7   | "     | "     | "     | 1     | "     |
|              |          |    | mineral in some sulphide-rich portions, locally up to 10% of sulphides |      |       | 489.0 | 0.58 | 0.02  | "     | "        | 2.0   | "     | 0.02  | 0.030 | <1    | 0.03  |
|              |          |    | (% of the rock). Traces of sphalerite occur sporadically. From         |      |       | 490.0 | 0.11 | "     | 0.06  | "        | 1.4   | "     | 0.01  | 0.010 | <1    | 0.01  |
|              |          |    | 486 - 509m and 517 - 605m the degree of alteration increases           |      |       | 491.0 | 0.08 | 0.01  | 0.05  | "        | "     | "     | "     | 0.005 | 1     | 0.03  |
|              |          |    | markedly, and axinite-actinolite alteration becomes abundant, masking  |      |       | 492.0 | 0.04 | 0.02  | 0.04  | "        | 0.8   | "     | "     | 0.006 | <1    | 0.02  |
|              |          |    | the original textures of the rock in places. Veins of calcite †        |      |       | 493.0 | 0.14 | "     | "     | "        | 0.9   | "     | "     | 0.005 | <1    | "     |
|              |          |    | coarse crystalline axinite occur sporadically.                         |      |       | 494.0 | 0.05 | "     | "     | "        | 1.4   | "     | "     | 0.006 | <1    | "     |
|              |          |    | From 598.5m - end, stringers of pale brown fine grained ?dravite       |      |       | 495.0 | 0.24 | "     | 0.05  | "        | "     | "     | "     | "     | <1    | "     |
|              |          |    | occur within a black ?chlorite groundmass. At 622.7m, black needles    |      |       | 496.0 | 0.09 | 0.01  | 0.03  | "        | 0.6   | "     | "     | 0.007 | <1    | "     |
|              |          |    | of ?schorl or an amphibole occur within a pyrrhotite aggregate, and    |      |       | 497.0 | 0.13 | "     | 0.05  | "        | 1.3   | "     | "     | 0.006 | <1    | "     |
|              |          |    | traces of this mineral occur sporadically between 621 and 623m.        |      |       | 498.0 | 0.04 | <0.01 | 0.06  | "        | 1.1   | "     | 0.01  | 0.006 | <1    | "     |
|              |          |    | The degree of alteration becomes less intense from 605 - 640.4m,       |      |       | 499.0 | 0.03 | "     | 0.04  | "        | 0.4   | "     | "     | "     | <1    | "     |
|              |          |    | with only mild actinolitisation, generally in diffuse patches, and     |      |       | 500.0 | 0.08 | 0.02  | 0.05  | "        | 1.2   | "     | "     | "     | <1    | "     |
|              |          |    | the amount of sulphide mineralisation decreases to 1%; sulphides       |      |       | 501.0 | 0.10 | "     | 0.06  | "        | 1.9   | "     | "     | 0.004 | 1     | 0.03  |
|              |          |    | are restricted to clasts, with only minor veins. The rocks in this     |      |       | 502.0 | 0.03 | "     | 0.04  | "        | 0.9   | "     | <0.01 | 0.005 | <1    | 0.02  |
|              |          |    | portion are not as calcareous as elsewhere, with only minor carbonate  |      |       | 503.0 | 0.10 | 0.01  | "     | "        | 1.0   | "     | 0.01  | 0.006 | <1    | 0.04  |
|              |          |    | in the matrix, and minor calcareous, partly sulphide mineralised       |      |       | 504.0 | 0.12 | 0.03  | 0.07  | "        | 2.2   | "     | "     | "     | <1    | 0.05  |
|              |          |    | clasts. Bands and diffuse patches of coarse carbonate containing       |      |       | 505.0 | 0.08 | "     | 0.04  | "        | 1.1   | "     | "     | 0.007 | <1    | "     |
|              |          |    | a fine grained black ?chlorite occur sporadically, and appear          |      |       | 506.0 | 0.04 | "     | 0.03  | "        | 0.2   | "     | "     | 0.006 | <1    | "     |
|              |          |    | similar to ultrabasic-style alteration. Clasts of pale green           |      |       | 507.0 | 0.06 | "     | 0.04  | "        | 0.7   | "     | "     | 0.005 | <1    | 0.04  |
|              |          |    | tremolite-actinolite, in rosettes with a carbonate groundmass also     |      |       | 508.0 | 0.33 | 0.02  | 0.06  | "        | 2.0   | "     | "     | 0.010 | <1    | 0.05  |
|              |          |    | appear to be ultrabasic-derived. In addition, dark green ?gabbroic     |      |       | 509.0 | 0.38 | 0.03  | 0.19  | "        | 5.1   | "     | "     | "     | <1    | 0.10  |
|              |          |    | clasts contain fine disseminated leucocene flecks.                     |      |       | 510.0 | 0.05 | 0.02  | 0.04  | "        | 0.5   | "     | 0.02  | 0.005 | <1    | 0.05  |
|              |          |    | At 481.7 - 481.8m scheelite crystals up to 8mm across are              |      |       | 511.0 | 0.23 | 0.01  | 0.05  | "        | 1.4   | "     | 0.01  | 0.007 | <1    | "     |
|              |          |    | disseminated through massive pyrrhotite, and at 484.8m, crystals       |      |       | 512.0 | 0.15 | 0.03  | "     | "        | 1.3   | "     | "     | 0.005 | <1    | "     |
|              |          |    | up to 3mm occur in chloritized(?) sediment.                            |      |       | 513.0 | 0.39 | 0.02  | 0.08  | "        | 3.5   | "     | "     | 0.006 | <1    | 0.06  |
|              |          |    |  |      |       | 514.0 | 0.95 | 0.03  | 0.35  | "        | 5.3   | "     | 0.02  | 0.008 | 3     | "     |
|              |          |    |  |      |       | 515.0 | 0.36 | 0.01  | 0.06  | "        | 1.9   | "     | 0.01  | 0.010 | <1    | 0.05  |
|              |          |    |  |      |       | 516.0 | 0.12 | "     | 0.05  | "        | 1.7   | "     | "     | 0.004 | <1    | 0.04  |
|              |          |    |  |      |       | 517.0 | 0.44 | "     | 0.34  | "        | 3.0   | "     | 0.02  | 0.008 | 2     | 0.07  |
|              |          |    |  |      |       | 518.0 | 0.07 | "     | 0.07  | "        | 2.0   | "     | 0.01  | 0.007 | <1    | 0.05  |
|              |          |    |  |      |       | 519.0 | 0.21 | 0.02  | 0.04  | "        | 1.2   | "     | "     | 0.005 | <1    | "     |
|              |          |    |  |      |       | 520.0 | 0.05 | "     | "     | "        | 0.4   | "     | "     | "     | <1    | 0.04  |

881059

DIAMOND DRILL RECORD

HOLE NUMBER : S764

LOGGED BY : LDB

KWPS

| INTERVAL (m) |    | RECOVERY |   | DESCRIPTION | FORM. | % Sn. |       |       |           |       |       |      |       |       |       |        |                   |
|--------------|----|----------|---|-------------|-------|-------|-------|-------|-----------|-------|-------|------|-------|-------|-------|--------|-------------------|
| FROM         | TO | m        | % |             |       | FROM  | TO    | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |
|              |    |          |   |             |       | 520.0 | 521.0 | 0.36  | 0.03      | 0.07  | <0.1  | 1.4  | <0.01 | 0.02  | 0.007 | <1     | 0.06              |
|              |    |          |   |             |       |       | 522.0 | 0.14  | "         | 0.06  | "     | 1.5  | "     | 0.01  | 0.008 | <1     | 0.04              |
|              |    |          |   |             |       |       | 523.0 | 0.24  | 0.04      | 0.07  | "     | 1.0  | "     | "     | 0.009 | <1     | "                 |
|              |    |          |   |             |       |       | 524.0 | 0.07  | 0.02      | 0.06  | "     | 1.3  | "     | "     | 0.007 | <1     | "                 |
|              |    |          |   |             |       |       | 525.0 | 0.14  | 0.01      | 0.28  | "     | 2.5  | "     | 0.02  | 0.009 | 3      | 0.05              |
|              |    |          |   |             |       |       | 526.0 | 0.25  | 0.03      | 0.08  | "     | 1.4  | "     | "     | 0.007 | <1     | 0.04              |
|              |    |          |   |             |       |       | 527.0 | 0.09  | "         | 0.06  | "     | 1.2  | "     | 0.01  | 0.006 | <1     | 0.02              |
|              |    |          |   |             |       |       | 528.0 | 0.18  | 0.06      | 0.12  | "     | 1.3  | "     | "     | 0.007 | <1     | 0.04              |
|              |    |          |   |             |       |       | 529.0 | 0.14  | 0.05      | 0.04  | "     | 2.0  | "     | "     | 0.008 | 1      | 0.03              |
|              |    |          |   |             |       |       | 530.0 | 0.16  | 0.03      | 0.06  | "     | 1.7  | "     | "     | 0.006 | <1     | 0.04              |
|              |    |          |   |             |       |       | 531.0 | 0.46  | 0.03      | 0.05  | "     | 0.4  | "     | "     | 0.005 | <1     | "                 |
|              |    |          |   |             |       |       | 532.0 | 0.07  | 0.02      | 0.04  | "     | 0.8  | "     | 0.02  | "     | <1     | "                 |
|              |    |          |   |             |       |       | 533.0 | 0.08  | 0.03      | 0.06  | "     | 0.5  | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 534.0 | 0.07  | 0.03      | 0.05  | "     | 0.6  | "     | 0.01  | 0.006 | <1     | "                 |
|              |    |          |   |             |       |       | 535.0 | 0.06  | 0.02      | "     | "     | 1.0  | "     | "     | 0.005 | <1     | "                 |
|              |    |          |   |             |       |       | 536.0 | 0.02  | <0.01     | 0.03  | "     | <0.1 | "     | "     | 0.003 | <1     | "                 |
|              |    |          |   |             |       |       | 537.0 | "     | 0.01      | "     | "     | "    | "     | "     | 0.002 | 1      | "                 |
|              |    |          |   |             |       |       | 538.0 | 0.05  | 0.02      | 0.06  | "     | 0.4  | "     | "     | 0.004 | <1     | "                 |
|              |    |          |   |             |       |       | 539.0 | 0.03  | <0.01     | 0.03  | "     | 0.2  | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 540.0 | 0.04  | 0.01      | "     | "     | 0.3  | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 541.0 | 0.17  | 0.03      | 0.12  | "     | 2.5  | "     | 0.02  | 0.006 | 1      | 0.05              |
|              |    |          |   |             |       |       | 542.0 | 0.10  | "         | 0.06  | "     | 1.2  | "     | 0.01  | 0.007 | <1     | 0.04              |
|              |    |          |   |             |       |       | 543.0 | 0.26  | 0.04      | "     | "     | 2.4  | "     | "     | 0.006 | <1     | 0.05              |
|              |    |          |   |             |       |       | 544.0 | 0.03  | <0.01     | 0.04  | "     | 0.6  | "     | "     | 0.004 | <1     | 0.04              |
|              |    |          |   |             |       |       | 545.0 | 0.04  | 0.03      | 0.02  | "     | 0.1  | "     | "     | 0.003 | <1     | "                 |
|              |    |          |   |             |       |       | 546.0 | 0.15  | "         | 0.10  | "     | 1.5  | "     | "     | 0.007 | <1     | 0.05              |
|              |    |          |   |             |       |       | 547.0 | 0.14  | "         | 0.11  | "     | 2.5  | "     | "     | 0.008 | <1     | 0.04              |
|              |    |          |   |             |       |       | 548.0 | 0.12  | 0.01      | 0.05  | "     | 0.6  | "     | "     | 0.006 | <1     | "                 |
|              |    |          |   |             |       |       | 549.0 | 0.03  | 0.03      | 0.03  | "     | 0.1  | "     | "     | 0.005 | <1     | "                 |
|              |    |          |   |             |       |       | 550.0 | "     | 0.01      | "     | "     | 0.9  | "     | "     | 0.004 | <1     | "                 |
|              |    |          |   |             |       |       | 551.0 | 0.04  | 0.02      | 0.05  | "     | 0.9  | "     | "     | 0.005 | <1     | "                 |
|              |    |          |   |             |       |       | 552.0 | 0.45  | 0.03      | 0.07  | "     | 1.8  | "     | "     | 0.004 | <1     | 0.05              |
|              |    |          |   |             |       |       | 553.0 | 0.03  | 0.02      | 0.02  | 0.1   | 0.3  | "     | "     | 0.005 | <1     | 0.04              |
|              |    |          |   |             |       |       | 554.0 | 0.16  | 0.03      | 0.06  | "     | 1.0  | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 555.0 | 0.22  | 0.02      | 0.09  | "     | 2.5  | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 556.0 | 0.21  | 0.03      | 0.06  | "     | 1.0  | "     | "     | 0.004 | <1     | "                 |
|              |    |          |   |             |       |       | 557.0 | 0.04  | 0.01      | 0.03  | "     | 0.4  | "     | "     | 0.005 | <1     | "                 |
|              |    |          |   |             |       |       | 558.0 | 0.05  | "         | 0.04  | "     | 0.9  | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 559.0 | 0.14  | "         | 0.06  | "     | 0.8  | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 560.0 | 0.15  | 0.03      | 0.28  | "     | 3.5  | "     | 0.02  | 0.015 | 2      | 0.05              |
|              |    |          |   |             |       |       | 561.0 | 0.02  | <0.01     | 0.03  | "     | <0.1 | "     | 0.01  | 0.006 | <1     | 0.04              |
|              |    |          |   |             |       |       | 562.0 | 0.03  | "         | "     | "     | 0.2  | "     | "     | 0.004 | <1     | "                 |
|              |    |          |   |             |       |       | 563.0 | 0.06  | "         | 0.15  | "     | 1.5  | "     | 0.02  | 0.009 | 1      | "                 |

881060

DIAMOND DRILL RECORD

HOLE NUMBER : 8764

LOGGED BY : LDB

NWFS

| INTERVAL (m) |    | RECOVERY |   | DESCRIPTION | FORM. | % Sn. |       |       |           |       |       |      |       |       |       |        |                   |
|--------------|----|----------|---|-------------|-------|-------|-------|-------|-----------|-------|-------|------|-------|-------|-------|--------|-------------------|
| FROM         | TO | m        | % |             |       | FROM  | TO    | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |
|              |    |          |   |             |       | 563.0 | 564.0 | 0.05  | 0.01      | 0.04  | <0.1  | 0.8  | <0.01 | 0.01  | 0.007 | <1     | 0.04              |
|              |    |          |   |             |       |       | 565.0 | 0.08  | "         | 0.07  | "     | "    | "     | "     | 0.005 | <1     | "                 |
|              |    |          |   |             |       |       | 566.0 | 0.03  | "         | 0.03  | "     | 0.3  | "     | "     | 0.004 | <1     | "                 |
|              |    |          |   |             |       |       | 567.0 | 0.16  | 0.03      | 0.07  | "     | 1.5  | "     | "     | 0.008 | 1      | "                 |
|              |    |          |   |             |       |       | 568.0 | 0.03  | "         | 0.06  | "     | 0.1  | "     | 0.02  | 0.004 | 1      | "                 |
|              |    |          |   |             |       |       | 569.0 | 0.02  | 0.02      | 0.08  | "     | "    | "     | 0.01  | "     | 1      | "                 |
|              |    |          |   |             |       |       | 570.0 | 0.01  | <0.01     | 0.46  | "     | 0.6  | "     | "     | 0.005 | 2      | "                 |
|              |    |          |   |             |       |       | 571.0 | 0.03  | 0.02      | 0.03  | "     | <0.1 | "     | "     | 0.006 | 1      | "                 |
|              |    |          |   |             |       |       | 572.0 | 0.05  | "         | 0.04  | "     | 0.1  | "     | "     | 0.004 | 1      | "                 |
|              |    |          |   |             |       |       | 573.0 | 0.04  | 0.03      | 0.03  | "     | 0.2  | "     | "     | "     | 1      | "                 |
|              |    |          |   |             |       |       | 574.0 | 0.06  | "         | "     | "     | 0.4  | "     | 0.02  | 0.005 | <1     | 0.05              |
|              |    |          |   |             |       |       | 575.0 | 0.08  | "         | "     | <0.1  | 0.5  | "     | 0.01  | 0.007 | 1      | 0.04              |
|              |    |          |   |             |       |       | 576.0 | 0.09  | 0.02      | 0.04  | "     | 0.3  | "     | 0.01  | 0.005 | 1      | 0.05              |
|              |    |          |   |             |       |       | 577.0 | 0.04  | "         | 0.03  | "     | 0.3  | "     | "     | 0.004 | 1      | 0.04              |
|              |    |          |   |             |       |       | 578.0 | 0.05  | "         | 0.04  | "     | 0.2  | "     | "     | 0.005 | <1     | 0.05              |
|              |    |          |   |             |       |       | 579.0 | 0.11  | 0.03      | 0.14  | "     | 1.2  | "     | 0.02  | 0.009 | 2      | 0.04              |
|              |    |          |   |             |       |       | 580.0 | 0.02  | 0.02      | 0.04  | "     | 0.1  | "     | 0.01  | 0.008 | <1     | "                 |
|              |    |          |   |             |       |       | 581.0 | 0.05  | "         | "     | "     | 0.6  | "     | "     | 0.006 | 1      | "                 |
|              |    |          |   |             |       |       | 582.0 | 0.11  | "         | 0.10  | "     | 1.8  | "     | "     | 0.007 | 1      | "                 |
|              |    |          |   |             |       |       | 583.0 | 0.04  | 0.01      | 0.04  | "     | 0.7  | "     | "     | 0.006 | 1      | "                 |
|              |    |          |   |             |       |       | 584.0 | 0.02  | "         | 0.02  | "     | <0.1 | "     | "     | 0.003 | <1     | "                 |
|              |    |          |   |             |       |       | 585.0 | 0.65  | "         | 0.09  | "     | 10.8 | "     | "     | 0.006 | 1      | 0.06              |
|              |    |          |   |             |       |       | 586.0 | 0.11  | 0.03      | "     | "     | 1.2  | "     | "     | 0.005 | <1     | 0.04              |
|              |    |          |   |             |       |       | 587.0 | 0.14  | "         | 0.32  | "     | 1.7  | "     | 0.03  | "     | 1      | 0.08              |
|              |    |          |   |             |       |       | 588.0 | 0.10  | "         | 0.06  | "     | 0.8  | "     | 0.02  | "     | <1     | 0.04              |
|              |    |          |   |             |       |       | 589.0 | 0.08  | "         | "     | "     | 1.0  | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 590.0 | 0.04  | 0.02      | 0.03  | "     | 0.2  | "     | 0.01  | "     | <1     | "                 |
|              |    |          |   |             |       |       | 591.0 | 0.19  | 0.03      | 0.06  | "     | 1.4  | "     | 0.02  | 0.004 | <1     | "                 |
|              |    |          |   |             |       |       | 592.0 | 0.02  | 0.01      | 0.03  | "     | <0.1 | "     | 0.01  | "     | <1     | "                 |
|              |    |          |   |             |       |       | 593.0 | "     | 0.02      | "     | "     | 0.1  | "     | "     | 0.005 | <1     | "                 |
|              |    |          |   |             |       |       | 594.0 | 0.06  | "         | "     | "     | 0.4  | "     | "     | 0.007 | <1     | "                 |
|              |    |          |   |             |       |       | 595.0 | 0.13  | 0.03      | 0.05  | "     | 0.5  | "     | 0.02  | 0.009 | 1      | "                 |
|              |    |          |   |             |       |       | 596.0 | 0.05  | 0.02      | "     | "     | 0.7  | "     | 0.03  | 0.010 | 1      | 0.05              |
|              |    |          |   |             |       |       | 597.0 | 0.03  | "         | 0.03  | "     | 0.3  | "     | 0.01  | 0.004 | 1      | 0.04              |
|              |    |          |   |             |       |       | 598.0 | "     | 0.01      | "     | "     | 0.1  | "     | "     | 0.003 | <1     | "                 |
|              |    |          |   |             |       |       | 599.0 | 0.02  | 0.02      | 0.02  | "     | <0.1 | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 600.0 | 0.03  | "         | 0.04  | "     | 0.4  | "     | "     | 0.005 | <1     | "                 |
|              |    |          |   |             |       |       | 601.0 | 0.05  | "         | 0.17  | "     | 1.2  | "     | 0.03  | 0.004 | 1      | "                 |
|              |    |          |   |             |       |       | 602.0 | 0.03  | "         | 0.05  | "     | <0.1 | "     | 0.01  | 0.008 | 1      | "                 |
|              |    |          |   |             |       |       | 603.0 | 0.04  | 0.01      | 0.02  | "     | "    | "     | "     | 0.004 | <1     | "                 |
|              |    |          |   |             |       |       | 604.0 | 0.34  | 0.03      | 0.06  | "     | 0.1  | "     | "     | "     | <1     | "                 |
|              |    |          |   |             |       |       | 605.0 | 0.15  | 0.04      | 0.20  | "     | 0.3  | "     | 0.02  | 0.007 | 2      | "                 |
|              |    |          |   |             |       |       | 606.0 | 0.03  | 0.07      | 0.12  | "     | 0.5  | "     | "     | "     | 2      | "                 |

881061

DIAMOND DRILL RECORD

HOLE NUMBER : S764

LOGGED BY : LDB

NWPS

| INTERVAL (m) | RECOVERY | DESCRIPTION | FORM | % Sn. |       |       |          |       |       |      |       |       |       |        |                   |
|--------------|----------|-------------|------|-------|-------|-------|----------|-------|-------|------|-------|-------|-------|--------|-------------------|
|              |          |             |      | FROM  | TO    | TOTAL | ACID SOL | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |
|              |          |             |      | 606.0 | 607.0 | 0.18  | 0.04     | 0.14  | <0.1  | 0.3  | 0.01  | 0.02  | 0.008 | 1      | 0.04              |
|              |          |             |      | 608.0 | 0.17  | 0.10  | 0.41     | "     | 3.0   | 0.02 | 0.05  | 0.016 | 18    | "      |                   |
|              |          |             |      | 609.0 | 0.03  | 0.03  | 0.03     | "     | 0.2   | 0.01 | 0.04  | 0.005 | 1     | 0.05   |                   |
|              |          |             |      | 610.0 | 0.06  | 0.02  | 0.06     | "     | 0.3   | 0.01 | 0.01  | "     | 1     | 0.04   |                   |
|              |          |             |      | 611.0 | 0.05  | "     | 0.03     | "     | <0.1  | "    | "     | 0.002 | <1    | "      |                   |
|              |          |             |      | 612.0 | 0.02  | 0.01  | 0.02     | "     | "     | "    | "     | 0.003 | <1    | "      |                   |
|              |          |             |      | 613.0 | 0.18  | "     | 0.16     | "     | 0.2   | "    | "     | 0.006 | 1     | "      |                   |
|              |          |             |      | 614.0 | 0.02  | "     | 0.03     | "     | <0.1  | "    | 0.03  | 0.004 | <1    | "      |                   |
|              |          |             |      | 615.0 | 0.03  | 0.01  | 0.05     | <0.1  | 0.4   | 0.01 | 0.01  | 0.006 | <1    | 0.05   |                   |
|              |          |             |      | 616.0 | 0.02  | "     | 0.03     | "     | 0.1   | "    | "     | 0.003 | <1    | 0.04   |                   |
|              |          |             |      | 617.0 | 0.04  | 0.02  | 0.04     | "     | 0.2   | "    | 0.02  | "     | <1    | "      |                   |
|              |          |             |      | 618.0 | 0.03  | 0.01  | 0.06     | "     | 0.4   | "    | "     | "     | 1     | "      |                   |
|              |          |             |      | 619.0 | 0.02  | 0.02  | 0.11     | "     | "     | "    | 0.03  | 0.004 | 1     | "      |                   |
|              |          |             |      | 620.0 | "     | "     | 0.04     | "     | 0.1   | "    | 0.02  | "     | <1    | "      |                   |
|              |          |             |      | 621.0 | 0.03  | "     | "        | "     | <0.1  | "    | "     | "     | <1    | "      |                   |
|              |          |             |      | 622.0 | 0.02  | "     | 0.03     | "     | 0.1   | "    | 0.01  | 0.007 | <1    | "      |                   |
|              |          |             |      | 623.0 | 0.01  | "     | 0.24     | "     | 1.3   | "    | 0.04  | 0.005 | 1     | "      |                   |
|              |          |             |      | 624.0 | 0.02  | "     | 0.16     | "     | 1.5   | "    | 0.04  | "     | 1     | "      |                   |
|              |          |             |      | 625.0 | "     | "     | 0.05     | "     | 0.1   | "    | 0.03  | 0.004 | <1    | "      |                   |
|              |          |             |      | 626.0 | "     | 0.01  | 0.03     | "     | <0.1  | "    | 0.02  | "     | <1    | "      |                   |
|              |          |             |      | 627.0 | "     | 0.02  | 0.07     | "     | 0.9   | "    | "     | "     | <1    | "      |                   |
|              |          |             |      | 628.0 | "     | 0.01  | 0.04     | "     | 0.2   | "    | 0.01  | 0.005 | <1    | "      |                   |
|              |          |             |      | 629.0 | 0.03  | "     | 0.03     | "     | <0.1  | "    | 0.02  | "     | <1    | "      |                   |
|              |          |             |      | 630.0 | 0.01  | "     | 0.03     | "     | "     | "    | 0.01  | 0.003 | <1    | "      |                   |
|              |          |             |      | 631.0 | 0.02  | "     | "        | "     | "     | "    | 0.02  | "     | <1    | "      |                   |
|              |          |             |      | 632.0 | 0.05  | 0.03  | 0.04     | "     | 0.9   | "    | 0.01  | 0.006 | <1    | "      |                   |
|              |          |             |      | 633.0 | 0.04  | 0.02  | "        | "     | 0.1   | "    | 0.02  | 0.005 | <1    | "      |                   |
|              |          |             |      | 634.0 | 0.03  | "     | 0.02     | "     | <0.1  | "    | "     | "     | <1    | "      |                   |
|              |          |             |      | 635.0 | 0.02  | "     | 0.03     | "     | "     | "    | "     | 0.004 | <1    | "      |                   |
|              |          |             |      | 636.0 | "     | "     | "        | "     | "     | "    | "     | 0.003 | <1    | "      |                   |
|              |          |             |      | 637.0 | "     | 0.01  | 0.02     | "     | "     | "    | "     | "     | <1    | "      |                   |
|              |          |             |      | 638.0 | 0.01  | 0.02  | 0.03     | "     | "     | "    | 0.01  | 0.005 | <1    | "      |                   |
|              |          |             |      | 639.0 | 0.02  | "     | 0.02     | "     | "     | "    | 0.02  | 0.003 | <1    | "      |                   |
|              |          |             |      | 640.4 | "     | 0.01  | "        | "     | "     | "    | 0.01  | "     | <1    | "      |                   |

881062

DIAMOND DRILL RECORD

HOLE NUMBER : S764

LOGGED BY : LDB

|      |     | % Sn. ANALYSER |           |      |     |       |       |      |     |       |                   |
|------|-----|----------------|-----------|------|-----|-------|-------|------|-----|-------|-------------------|
| FROM | TO  | TOTAL          | ACID SOL. | FROM | TO  | TOTAL | % Pb. | FROM | TO  | TOTAL | % WO <sub>3</sub> |
| 509  | 510 | .07            |           | 552  | 553 | .24   |       | 595  | 596 | .19   |                   |
|      | 511 | .24            |           |      | 554 | .31   |       |      | 597 | .25   |                   |
|      | 512 | .23            |           |      | 555 | .37   |       |      | 598 | .23   |                   |
|      | 513 | .23            |           |      | 556 | .23   |       |      | 599 | .24   |                   |
|      | 514 | .73            |           |      | 557 | .32   |       |      | 600 | .24   |                   |
|      | 515 | .34            |           |      | 558 | .22   |       |      | 601 | .23   |                   |
|      | 516 | .18            |           |      | 559 | .38   |       |      | 602 | .21   |                   |
|      | 517 | .26            |           |      | 560 | .27   |       |      | 603 | .29   |                   |
|      | 518 | .09            |           |      | 561 | .20   |       |      | 604 | .31   |                   |
|      | 519 | .25            |           |      | 562 | .23   |       |      | 605 | .26   |                   |
|      | 520 | .16            |           |      | 563 | .33   |       |      | 606 | .33   |                   |
|      | 521 | .16            |           |      | 564 | .29   |       |      | 607 | .26   |                   |
|      | 522 | .31            |           |      | 565 | .23   |       |      | 608 | .31   |                   |
|      | 523 | .17            |           |      | 566 | .28   |       |      | 609 | .25   |                   |
|      | 524 | .21            |           |      | 567 | .34   |       |      | 610 | .17   |                   |
|      | 525 | .26            |           |      | 568 | .24   |       |      | 611 | .29   |                   |
|      | 526 | .31            |           |      | 569 | .23   |       |      | 612 | .18   |                   |
|      | 527 | .35            |           |      | 570 | .17   |       |      | 613 | .23   |                   |
|      | 528 | .52            |           |      | 571 | .20   |       |      | 614 | .22   |                   |
|      | 529 | .36            |           |      | 572 | .12   |       |      | 615 | .26   |                   |
|      | 530 | .30            |           |      | 573 | .15   |       |      | 616 | .21   |                   |
|      | 531 | .27            |           |      | 574 | .15   |       |      | 617 | .21   |                   |
|      | 532 | .31            |           |      | 575 | .17   |       |      | 618 | .24   |                   |
|      | 533 | .28            |           |      | 576 | .09   |       |      | 619 | .23   |                   |
|      | 534 | .30            |           |      | 577 | .15   |       |      | 620 | .21   |                   |
|      | 535 | .23            |           |      | 578 | .20   |       |      | 621 | .23   |                   |
|      | 536 | .19            |           |      | 579 | .25   |       |      | 622 | .21   |                   |
|      | 537 | .23            |           |      | 580 | N/A   |       |      | 623 | .26   |                   |
|      | 538 | .21            |           |      | 581 | .09   |       |      | 624 | .23   |                   |
|      | 539 | .26            |           |      | 582 | .24   |       |      | 625 | .24   |                   |
|      | 540 | .23            |           |      | 583 | .13   |       |      | 626 | .21   |                   |
|      | 541 | .33            |           |      | 584 | .16   |       |      | 627 | .22   |                   |
|      | 542 | .29            |           |      | 585 | .18   |       |      | 628 | .20   |                   |
|      | 543 | .36            |           |      | 586 | .27   |       |      | 629 | .18   |                   |
|      | 544 | .20            |           |      | 587 | .21   |       |      | 630 | .14   |                   |
|      | 545 | .22            |           |      | 588 | .10   |       |      | 631 | .16   |                   |
|      | 546 | .29            |           |      | 589 | .16   |       |      | 632 | .24   |                   |
|      | 547 | .26            |           |      | 590 | .24   |       |      | 633 | .18   |                   |
|      | 548 | .36            |           |      | 591 | .15   |       |      | 634 | .11   |                   |
|      | 549 | .20            |           |      | 592 | .23   |       |      | 635 | .16   |                   |
|      | 550 | .24            |           |      | 593 | .28   |       |      | 636 | .08   |                   |
|      | 551 | .38            |           |      | 594 | .34   |       |      | 637 | .20   |                   |
|      | 552 | .36            |           |      | 595 | .31   |       |      | 638 | .10   |                   |
|      |     |                |           |      |     |       |       |      | 640 | .09   |                   |

JOB NO G134/81  
 SAMPLE NO. 4433  
 ANALYSIS: SEMI-QUANTITATIVE SPECTROGRAPHIC ANALYSIS  
 RESULTS IN PERCENTS UNLESS OTHERWISE STATED. LIMITS IN PERCENTS.  
 ANALYST: MATH 1/4

| AMDEL REPORT AC 6194/81 |         | SAMPLE NO. 4433 |        |
|-------------------------|---------|-----------------|--------|
| A1                      | A2      | A3              | A4     |
| As (30)                 | Pb (1)  | As (30)         | Pb (1) |
| Co (5)                  | Sb (30) | Bi (1)          |        |
| Cr (20)                 | Sn (1)  | Ca (100)        |        |
| La (50)                 | Zn (20) | Fe (100)        |        |
| Nb (20)                 |         | Mg (100)        |        |
| Ni (5)                  |         | Al (100)        |        |
| Se (3)                  |         | Si (100)        |        |
| Si (50)                 |         |                 |        |
| Ta (100)                |         |                 |        |
| Th (100)                |         |                 |        |
| Ti (100)                |         |                 |        |
| V (10)                  |         |                 |        |
| W (50)                  |         |                 |        |
| Y (10)                  |         |                 |        |
| Zr (10)                 |         |                 |        |

RESULTS ARE SEMI-QUANTITATIVE. ELEMENTS APPARENTLY PRESENT IN CONCENTRATIONS OF ECONOMIC INTEREST SHOULD BE REDETERMINED BY AN APPROPRIATE ACCURATE ANALYTICAL TECHNIQUE. X = NOT DETECTED AT LIMIT QUANT.

881063

# RENISON LIMITED - DRILL CORE RECORD

| HOLE NUMBER                 | 5062   | SURVEY |         |         | From To | Distance D | VERTICAL  |        | HORIZONTAL |             |
|-----------------------------|--|--------|---------|---------|---------|------------|-----------|--------|------------|-------------|
|                             |  | Depth  | Bearing | Dip     |         |            | D.Sin.Dip | R.L.   | D.Cos.Dip  | Prog. Total |
| PURPOSE                     | To test Grand Prize Fault Zone and possible extension of mineralized conglomerate intersected in S764  | COLLAR | 094.81° | -61.0°  | 0-24.65 | 24.65      | 21.56     | 2332.3 | 11.95      | 11.95       |
|                             |  | 49.3m  | 099°    | -61.5°  | 77.65   | 53.00      | 46.57     | 2285.8 | 25.29      | 37.24       |
|                             |  | 105.0m | 096°    | -61.25° | 125.90  | 48.25      | 42.30     | 2243.4 | 23.20      | 60.44       |
| LOCATION                    | 200m South-West of Grand Prize Mill  | 145.8m | 094°    | -62°    | 170.65  | 44.75      | 39.51     | 2203.9 | 21.00      | 81.44       |
|                             |  | 195.5m | 090°    | -61.5°  | 222.95  | 52.30      | 45.96     | 2157.9 | 24.95      | 106.39      |
| COLLAR R.L.                 | 2353.905   | 250.4m | 091°    | -61°    | 218.70  | 58.75      | 51.38     | 2106.6 | 28.48      | 134.87      |
|                             |  | 313.0m | 094°    | -59°    | 325.20  | 43.50      | 37.28     | 2069.3 | 22.40      | 157.27      |
| CO-ORDINATES                | 13687.156 Northing<br>13483.774 Easting  | 337.4m | 106°    | -58°    | 376.40  | 51.20      | 43.42     | 2025.9 | 27.13      | 184.40      |
|                             |  | 415.4m | 106°    | -53.5°  | 433.40  | 57.00      | 45.82     | 1980.0 | 33.90      | 218.30      |
| LENGTH                      | 472.4 m  | 451.4m | 111°    | -52°    | 461.90  | 28.50      | 22.45     | 1957.6 | 17.54      | 235.84      |
|                             |  | 472.4m | 113°    | -50.5°  | 472.40  | 10.50      | 8.10      | 1949.5 | 6.68       | 242.52      |
| HOLE SIZE                   | 0.0 - 3.0 m H <sub>2</sub> O<br>- 146.1 m NQ reamed NQ-217m<br>- 472.4 m BQ  |        |         |         |         |            |           |        |            |             |
| DATE DRILLED                | 2/6/81 - 26/7/81   |        |         |         |         |            |           |        |            |             |
| SIGNIFICANT CORE LOSS ZONES | 185.8-187.1m : 31% loss  |        |         |         |         |            |           |        |            |             |
| ORE ZONE GROUND CONDITIONS  | Grand Prize Fault: clayey, leached broken.   |        |         |         |         |            |           |        |            |             |
| LOGGED BY                   | L.D. Bond  |        |         |         |         |            |           |        |            |             |
| COMMENTS                    | Intesected Grand Prize Fault earlier than antie pated, at 185.8-217.4m; core recovery and ground conditions in this zone were poor, and no trace of sulphidewas detected. Hole was continued 250m beyond the fault, in an attempt to locate an extension of the mineralization intersected in S764, but only chalcopyrite-pyrrhotite-actinolite veins occur in the footwall rocks. |        |         |         |         |            |           |        |            |             |

## 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 <sub>3</sub> | Ag g/t |  |        |  |  |  |
| Grand Prize Fault | 185.8 | 217.4 | 31.6       | NOT                     | ASSAYED       |    |    |   |    |    |    |                 |        |  |        |  |  |  |
|                   |       |       |            |                         |               |    |    |   |    |    |    |                 |        |  |        |  |  |  |
|                   |       |       |            |                         |               |    |    |   |    |    |    |                 |        |  |        |  |  |  |
|                   |       |       |            |                         |               |    |    |   |    |    |    |                 |        |  |        |  |  |  |
|                   |       |       |            |                         |               |    |    |   |    |    |    |                 |        |  |        |  |  |  |
|                   |       |       |            |                         |               |    |    |   |    |    |    |                 |        |  |        |  |  |  |
|                   |       |       |            |                         |               |    |    |   |    |    |    |                 |        |  |        |  |  |  |
|                   |       |       |            |                         |               |    |    |   |    |    |    |                 |        |  |        |  |  |  |
|                   |       |       |            |                         |               |    |    |   |    |    |    |                 |        |  |        |  |  |  |
|                   |       |       |            |                         |               |    |    |   |    |    |    |                 |        |  |        |  |  |  |

## DIAMOND DRILL RECORD

HOLE NUMBER : 5862

LOGGED BY : L.D.B

NWPS

| INTERVAL (m) |      | RECOVERY |     | DESCRIPTION  | FORM. | % Sn. |    |       |           |       |       |      |       |       |       |        |
|--------------|------|----------|-----|--|-------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO   | m        | %   |  |       | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
| 0            | 3    | -        | -   | No Recovery; triconed.   | NK    |       |    |       |           |       |       |      |       |       |       |        |
| 3            | 13.1 | 10.1     | 100 | PARTLY WEATHERED SILTSTONE & GRIT<br>Fine grained, massive, purple-grey siltstone with patches of soft, yellow-brown, weathered siltstone, decreasing in abundance towards the end of the unit. Weathered rock is locally moderately broken, but recovery is good.<br>Minor leached & clayey quartz veinlets.<br>Sparse gritty interbeds up to 5cm thick define bedding:<br>B.C.A. = 40° Diffuse base.   | DG    |       |    |       |           |       |       |      |       |       |       |        |
| 13.1         | 19.0 | 5.9      | 100 | INTERMIXED CONGLOMERATE, GRIT, & SILTSTONE.<br>Crimson to purple-grey medium to coarse grained conglomerate containing rounded to subangular tuff, siltstone chert, & volcanic fragments up to 3cm (mean 1cm) across in a purple grit matrix; siltstone is grey to crimson, fine-grained, massive, with interbedded medium to coarse grit bands. The rock types are variously intermixed by apparent reworking. Gradational base.<br>BCA obscure.<br>Minor broken ground with clay & iron oxide on joints near top of unit.          | DG    |       |    |       |           |       |       |      |       |       |       |        |
| 19.0         | 32.0 | 13.0     | 100 | CONGLOMERATE<br>Purple-grey medium to very coarse grained conglomerate containing fragments subrounded to subangular of chert, siltstone, tuff, & volcanics, & sparse leached (completely) carbonate?, up to 5cm across (mean 1cm) in a purple grit matrix. Minor intermixed purple-grey siltstone near top of unit.<br>Weak orientation of clasts at 40° to C.A.<br>Sparse pyrite disseminated in pink (?rhyolitic) volcanic fragments<br>Traces of black to silvery specular hematite on joints.<br>Sharp planar base, 40° to C.A. | DG    |       |    |       |           |       |       |      |       |       |       |        |

881065



## DIAMOND DRILL RECORD

HOLE NUMBER : 8862

LOGGED BY : LDB

NWPS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM  | % Sn. |    |       |           |       |       |      |       |       |       |        |                   |
|--------------|-------|----------|-----|--|-------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|-------------------|
| FROM         | TO    | m        | %   |  |       | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |
| 168.4        | 172.2 | 3.8      | 100 | WEATHERED SILTSTONE<br>Yellow brown fine grained massive locally clayey weathered siltstone, with poorly bedded patches (BCA = 40°-45°) Ground is broken throughout, & weathering appears to have emanated from a brecciated clayey band at 169.6-169.7m. Iron - oxides coat joints & fractures. Diffuse base. This zone may be a small fault.   | DG    |       |    |       |           |       |       |      |       |       |       |        |                   |
| 172.2        | 176.3 | 4.0      | 98  | PARTLY WEATHERED SILTSTONE<br>Crimson - brown fine grained massive siltstone with patches of yellow-orange weathered, slightly clayey, siltstone in which the ground is moderately broken. Minor yellow-orange bleaching of less weathered siltstone about fractures & joints. Thin laminae of fine grained sandstone (up to 2cm thick) occur sporadically & appear to be more leached & weathered than adjacent rock. These bands define the BCA as 40°. Rock broken at base.   | DG    |       |    |       |           |       |       |      |       |       |       |        |                   |
| 176.3        | 180.5 | 4.1      | 98  | BROKEN AND WEATHERED SILTSTONE, with MINOR SANDSTONE<br>Yellow-orange to orange-brown bedded siltstone with minor interbedded darker orange-brown to red-brown, fine to medium grained sandstone in beds up to 5cm thick, (but generally 2cm). Ground is moderately to very broken throughout, with minor patches of yellow-brown and red-brown clay, & clayey rubble. Core recovery is relatively good despite these ground conditions. At 176.9-177.1m, the rocks appear sheared, and at 178.9-179.1m, the rock (very broken) is weakly gossanous. Both these zones may be small faults. Diffuse base - BCA = 40°. | DG/P? |       |    |       |           |       |       |      |       |       |       |        |                   |
| 180.5        | 182.4 | 1.9      | 100 | WEAKLY WEATHERED SILTSTONE, minor SANDSTONE<br>Crimson fine grained weakly bedded siltstone, interbedded with partly weathered (leached) fine to medium grained sandstone beds (up to 5cm thick) Minor bleaching (to yellow-brown) of siltstone about fractures & joints. Traces of manganese oxides on joints. BCA = 40°. Diffuse base.   | DG    |       |    |       |           |       |       |      |       |       |       |        |                   |
| 182.4        | 185.8 | 3.3      | 97  | PARTLY WEATHERED SILTSTONE, minor SANDSTONE<br>Interbedded yellow-brown locally slightly clayey fine grained siltstone & minor fine to medium grained sandstone beds up to 3cm thick. From about 184m, the rocks become progressively more greenish brown in colour, & are mottled by red (ferruginous?) staining/alteration about joints and fractures. Ground is moderately  | DG    |       |    |       |           |       |       |      |       |       |       |        |                   |

881067

DIAMOND DRILL RECORD

HOLE NUMBER : S862

LOGGED BY : LDB

HWPS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM | % Sn. |    |       |           |       |       |      |       |       |       |        |
|--------------|-------|----------|-----|--|------|-------|----|-------|-----------|-------|-------|------|-------|-------|-------|--------|
| FROM         | TO    | m        | %   |  |      | FROM  | TO | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag |
|              |       |          |     | broken throughout, BCA = 40° Broken base.<br>Minor manganese oxide coatings & dendrites on joints near top, decreasing in abundance towards the end of the unit.   |      |       |    |       |           |       |       |      |       |       |       |        |
| 185.8        | 187.1 | 0.9      | 69  | FAULT?<br>Very broken, soft, & locally clayey, cream to yellow brown brecciated siltstone & sandstone. Ground at top is clayey & slightly gossanous, and appears sheared ( ?F.C.A. = 60°). Diffuse, broken base.<br>Due to the change in rock type (with the occurrence of conglomerate in the following unit) it is assumed that this and the following zone represents a major fault, and with the absence of other such faults beyond these zones, they are assumed therefore to be the Grand Prize Fault. Note that apart from minor gossanous (goethitic) material near the top, there is no indication of sulphides.                             | F?   |       |    |       |           |       |       |      |       |       |       |        |
| 187.1        | 217.4 | 24.3     | 80  | SILTSTONE, GRIT and CONGLOMERATE<br>Yellow-brown to yellow-grey siltstone interbedded with fine to medium grained locally conglomeratic grit, a fine to coarse grained gritty conglomerate. The rocks throughout are leached & broken, & from about 199m, the conglomerate & grit are bleached to a creamy yellow colour. Minor clayey rubble, & yellow-brown clay zones occur sporadically, & core loss is high in such zones. The conglomerate & grit appear to be more broken than the siltstone, & towards the base, only rubble has been recovered. Iron and manganese oxides coat fractures and joints, but there is no indication of sulphides. | F?   |       |    |       |           |       |       |      |       |       |       |        |
| 217.4        | 228.1 | 10.7     | 100 | WEATHERED SILTSTONE & minor GRIT<br>Yellow-brown massive fine grained siltstone intermixed with fine grained yellow-brown grit. Rocks are very broken 217.4-220.0m. & moderately broken 220.0-228.1m. Iron oxides stain joints & fractures throughout.<br>Bedding is contorted throughout, with minor brecciated patches.<br>BCA appears to be 0° to 10° where apparent.<br>Rock becomes green-grey 227.0-228.0m (less weathered?). Diffuse base.  | DG   |       |    |       |           |       |       |      |       |       |       |        |
| 228.1        | 267.5 | 39.4     | 100 | SILTSTONE and GRIT<br>Dark grey to black fine grained laminated to weakly bedded siltstone interbedded & intermixed with fine to medium grained light grey grit which is locally weakly calcareous. From 228.1-231.5m, the rocks are locally pitted & leached, & carbonate veins   | DG   |       |    |       |           |       |       |      |       |       |       |        |

881068

DIAMOND DRILL RECORD

HOLE NUMBER : S862

LOGGED BY : LDB

NWPS

| INTERVAL (m) |       | RECOVERY |     | DESCRIPTION  | FORM | % Sn. |       |       |           |       |       |      |       |       |       |        |                   |
|--------------|-------|----------|-----|--|------|-------|-------|-------|-----------|-------|-------|------|-------|-------|-------|--------|-------------------|
| FROM         | TO    | m        | %   |  |      | FROM  | TO    | TOTAL | ACID SOL. | % Cu. | % As. | % S. | % Pb. | % Zn. | % Bi. | g/t Ag | % WO <sub>3</sub> |
|              |       |          |     | are nearly completely leached out. Sparse pyrite & pyrrhotite veinlets occur sporadically from 232.3m onwards. A minor sulphides occur in association with carbonate-quartz veins between 232 and 251.5m, below which point carbonate-quartz veining becomes sparse. From 246.1-246.5m is a quartz-rock fragment-sparse pyrite vein, with a bleached (greenish-grey) halo 20cm wide eachside. Minor brecciated patches. B.C.A. increases from 0°-10° at 232.5m to 40° at 254.4m, beyond which point B.C.A. varies between 30° and 50°. Minor weak alteration towards base lower contact brecciated & marked by 2cm carbonate-pyrite vein.  |      |       |       |       |           |       |       |      |       |       |       |        |                   |
| 267.5        | 273.8 | 6.3      | 100 | BRECCIA<br>Intermixed weakly to strongly brecciated altered (pale creamy brown-grey coloured) & weakly cherty fine grained siltstone & fine to medium grained grit. Rock is veined by black chlorite-margined carbonate-tremolite veins & stingers. Trace to sparse pyrrhotite aggregates & veinlets. Diffuse base.  | F?   |       |       |       |           |       |       |      |       |       |       |        |                   |
| 273.8        | 472.4 | 198.6    | 100 | SILTSTONE & GRIT<br>Dark grey to blue-grey fine grained massive and locally laminated very fine to fine grained siltstone, interbedded with fine grained (?tuffaceous) grit. Very minor medium to coarse grained grit. Grit decreases gradually in abundance towards the end of the unit from 35% to 5%. Rocks are locally weakly bleached to a light grey to brown-grey colour, these patches are generally of a very restricted distribution, extending no more than 15cm. Patches up to 40cm thickness of brecciated rock occur sporadically. From 330m to 430m pyrrhotite occurs as veinlets, wisps and disseminated aggregates. Chalcopyrite is occasionally associated with these occurrences of pyrrhotite. Sparse to trace pyrrhotite beyond 430m. From 335m to 430m actinolite-quartz-pyrrhotite-chalcopyrite veins aggregates and bands occur sporadically, increasing gradually in abundance towards 400m, then decreasing towards the end of the unit, and frequently infill minor breccia zones.<br><br>Between 335.3 and 338.7m, actinolite-pyrrhotite-chalcopyrite veins are common, and chalcopyrite constitutes 50% of total sulphides. Between 276.4 and 276.7m is a strongly brecciated zone, with rock flour and carbonate infilling. It has a sharp planar base at 40° to 6A and may be a small fault.<br><br>From 430m onwards patches of pale purple-grey to green-grey |      | 335.3 | 336.3 | <0.01 | 0.02      | 0.58  | <0.1  | 1.7  | 0.01  | 0.05  | 0.005 | 4      | <0.01             |
|              |       |          |     |  |      |       | 337.3 | "     | 0.01      | 0.19  | "     | 0.3  | "     | 0.02  | 0.004 | 1      | "                 |
|              |       |          |     |  |      |       | 338.7 | "     | "         | 0.04  | "     | 2.1  | <0.01 | 0.01  | 0.006 | <1     | "                 |

881065







**KEY**

- Inferred Fault
- Definite Fault
- Inferred Geological Boundary
- Definite Geological Boundary
- Traverse Line
- Diamond Drill Hole

**SEDIMENTS**

- Silurian / Devonian
- Middle to Upper Cambrian
- Lower Middle Cambrian
- Grimston Creek Formation
- Lower Devonian Success Creek Group

**LEGEND**

- Dredraught Hill Member
- No 1 Horizon
- Red Rock Member
- No 2 Horizon
- Renison Bell Member
- No 3 Horizon
- Dalbeth Member

**IGNEOUS ROCKS**

- Anorthic Gabbro
- Devonian Granitoid
- Meta Spillites
- Mid and post mid Cambrian Intrusive Complexes
- Cambrian Gabbro

**LOWER CAMBRIAN RENISON MINE SEQUENCE**

- No 1 Horizon
- No 2 Horizon
- No 3 Horizon

**RENISON LIMITED**

**INTERPRETATIVE GEOLOGY**

E.L. 42/71 881072

GEOLOGIST : P.R.S. SCALE: 1:100000  
 DRAUGHTSMAN : E.V. DATE : AUGUST 1981  
 REVISIONS : DRAWING No. FIG. 2



**ROCK SAMPLING RESULTS**

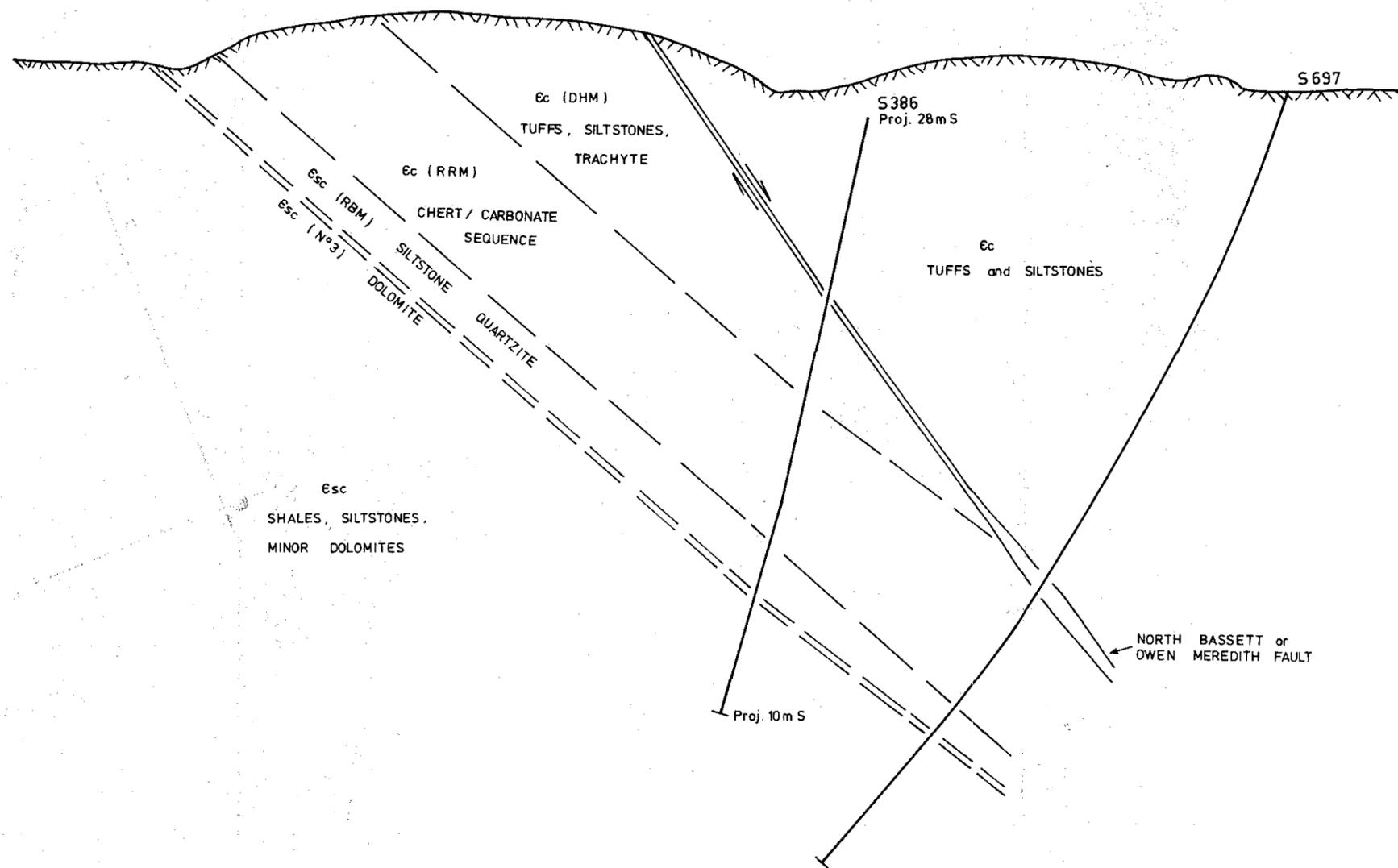
| LOCATION           | C.M.S. Report or Description | ASSAYS p.p.m. |    |      |    |       |       |      |     |     |     |
|--------------------|------------------------------|---------------|----|------|----|-------|-------|------|-----|-----|-----|
|                    |                              | Sn            | Cu | S    | As | Pb    | Zn    | Ag   | WO  | Bi  |     |
| 19560 N<br>13270 E | 76/3/20                      | 25            |    |      |    | 35    | 40    | 160  | 5   | 45  |     |
| 19560 N<br>13200 E | 76/3/20                      | 15            |    | 1400 |    | 15    | 20    | 2    | 2   | 30  |     |
| 19560 N<br>13200 E | 76/3/20                      | 40            |    | 700  |    | 60    | 180   | 40   | 1   | 25  |     |
| 17240 N<br>12400 E | 76/3/20                      | 75            |    | 1400 |    | 25    | 10800 | 300  | 61  | 40  |     |
| 19560 N<br>13450 E | 76/3/20                      | <5            |    | 700  |    | 65    | 180   | 70   | 1   | 30  |     |
| 19560 N<br>14350 E | 76/3/20                      | 20            |    | 190  |    | 3000  | 2000  | 180  | 140 | 20  | 25  |
| 19370 N<br>14300 E | 76/3/20                      | 40            |    | 60   |    | 12800 | 160   | 60   | 70  | 1   | 25  |
| 19300 N<br>13700 E | 76/3/20                      | 60            |    | 25   |    | 320   | 225   | 75   | 20  | 20  | 70  |
| 19560 N<br>13020 E | 76/3/20                      | 90            |    | 270  |    | 80    | 195   | 670  | 15  | 80  | 55  |
| 20280 N<br>13035 E | 76/3/20                      | 100           |    | 270  |    | 15    | 45    | 255  | 35  | 20  | 70  |
| 20280 N<br>13075 E | 76/3/20                      | 45            |    | 130  |    | <5    | 70    | 550  | 80  | 20  | 20  |
| 1905 N<br>14755 E  | Pyritic<br>Shale             | 80            |    | 175  |    | 15    | 160   | 15   | 15  | 110 | 35  |
| 17125 N<br>12890 E | Gossan                       | 80            |    | 170  |    | 650   | 1980  | 5800 | 85  | 60  | 40  |
| 19650 N<br>14500 E |                              | 76/6/4        | 70 |      | 20 | 80    | 100   | 350  | 2   | <50 | 125 |
| 18855 N<br>14430 E |                              | 76/6/4        | 30 |      | 20 | 110   | 90    | 580  | 2   | 150 | 125 |
| 18770 N<br>12780 E |                              | 76/6/4        | 90 |      | 10 | 200   | 120   | 2650 | 2   | 150 | 100 |

**MAPPING SYMBOLS**

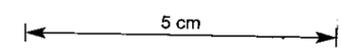
- Definite } Geological boundaries
- - - - - Approximate } Geological boundaries
- · - · - · Inferred } Geological boundaries
- Strike and dip of bedding
- Vertical bedding
- Horizontal bedding
- Strike and dip of jointing
- Strike and dip of shearing
- Fault (up and downthrow)
- Fault position approximate
- Fault position inferred
- Syncline with plunge
- Anticline with plunge
- Ore mine workings
- Pb } Mineralization
- Pyritic } Mineralization
- Drivable road
- Track
- Diamond drill hole
- \* Sample location

**ROCK TYPE DESCRIPTION**

- QUATERNARY**
- Qra Alluvium
  - Qpf Pleistocene fluvial/coluvial
- LOWER TO MIDDLE CAMBRIAN**
- Esc CAWSON CREEK FORMATION  
Undifferentiated pyritic shales and sandstones
  - Esc (DHM) DALHOUSIE HILL MEMBER  
Pyritic shales and sandstones
  - Esc (N#1) N#1 HORIZON  
Dolomite
  - Esc (RRM) RED ROCK MEMBER  
Chert, conglomerates and pyritic shales
  - Esc (N#2) N#2 HORIZON  
Dolomite
- UPPER PROTEROZOIC TO ? LOWER CAMBRIAN**
- Esc SUCESS CREEK GROUP  
Undifferentiated quartzites and siltstones
  - Esc (RBM) RENISON BELT MEMBER  
Siltstone and quartzite
  - Esc (N#3) N#3 HORIZON  
Dolomite
  - Esc (DM) DALHOUSIE HILL MEMBER  
Dolomite and siltstones
- INTRUSIVES**
- Quartz porphyry dyke
  - Basic dyke
- SYMBOLS**
- Dolomite - dolomitic shale
  - Gossan - pseudo-gossan - ironstone
  - Chert, chert breccia
  - Metavolcanic, argillaceous siltstone and mudstone
- 881073
- RENISON LIMITED
- ARGENT GRID AREA
- INTERPRETATIVE GEOLOGY
- GEOLOGIST P. STEPHENSON SCALE: 1:5000 METRES  
 DRAUGHTSMAN J. MATTHEWS 100 0 100 200  
 DATE MAY 1976  
 REVISIONS AUGUST 1977 AUGUST 1980 DRAWING No. 881073  
 AUGUST 1978 SEPTEMBER 1979



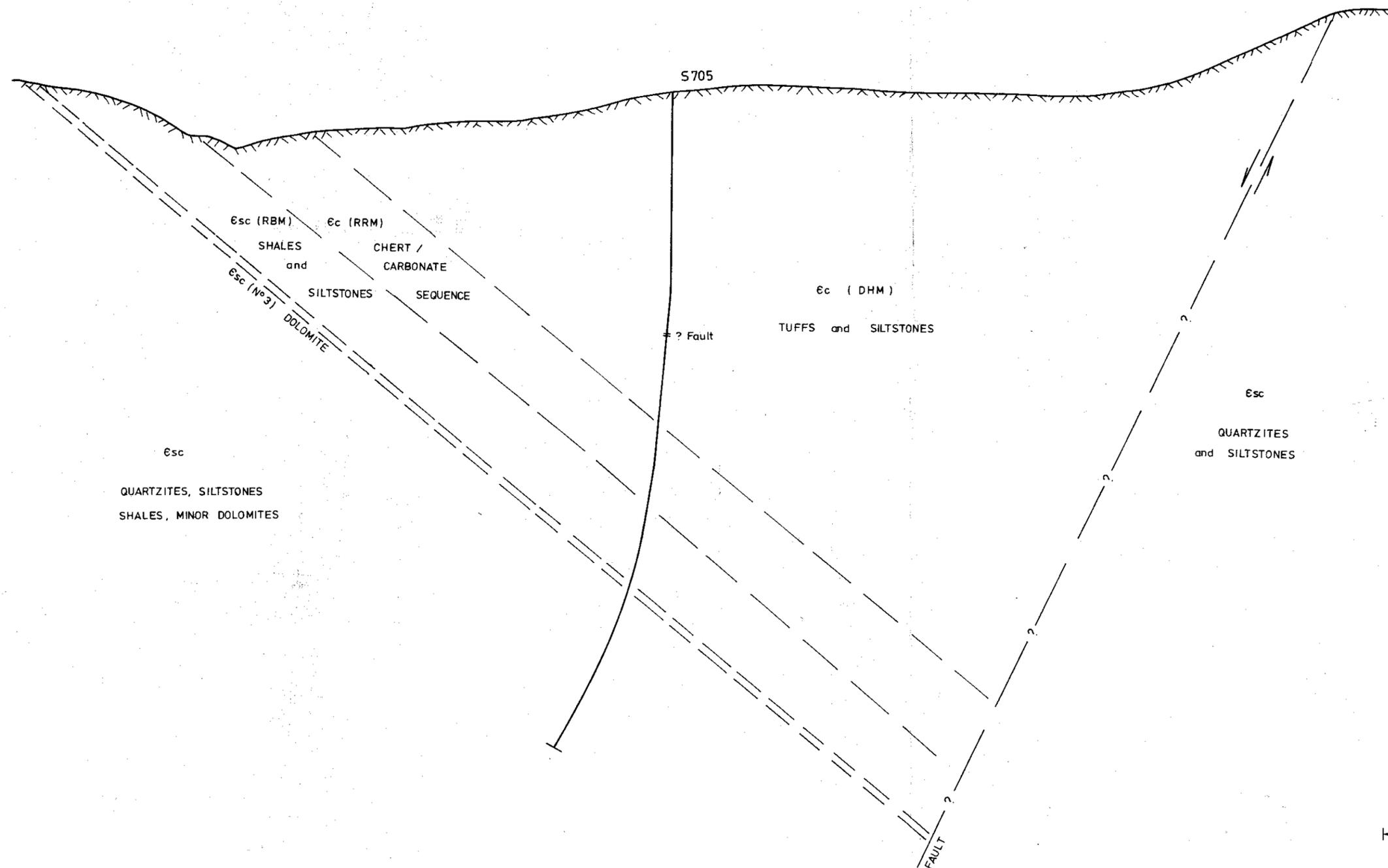
881074



|              |   |
|--------------|---|
| RENISON LTD. |   |
| SCALE        | 1:2000  |
| DRAWN        | P. R. STEPHENSON                                    |
| DATE         | AUGUST 1981   |
| TITLE        | SECTION THROUGH<br>S 386 AND S 697<br>Looking North |

81-1609

FIG. 4



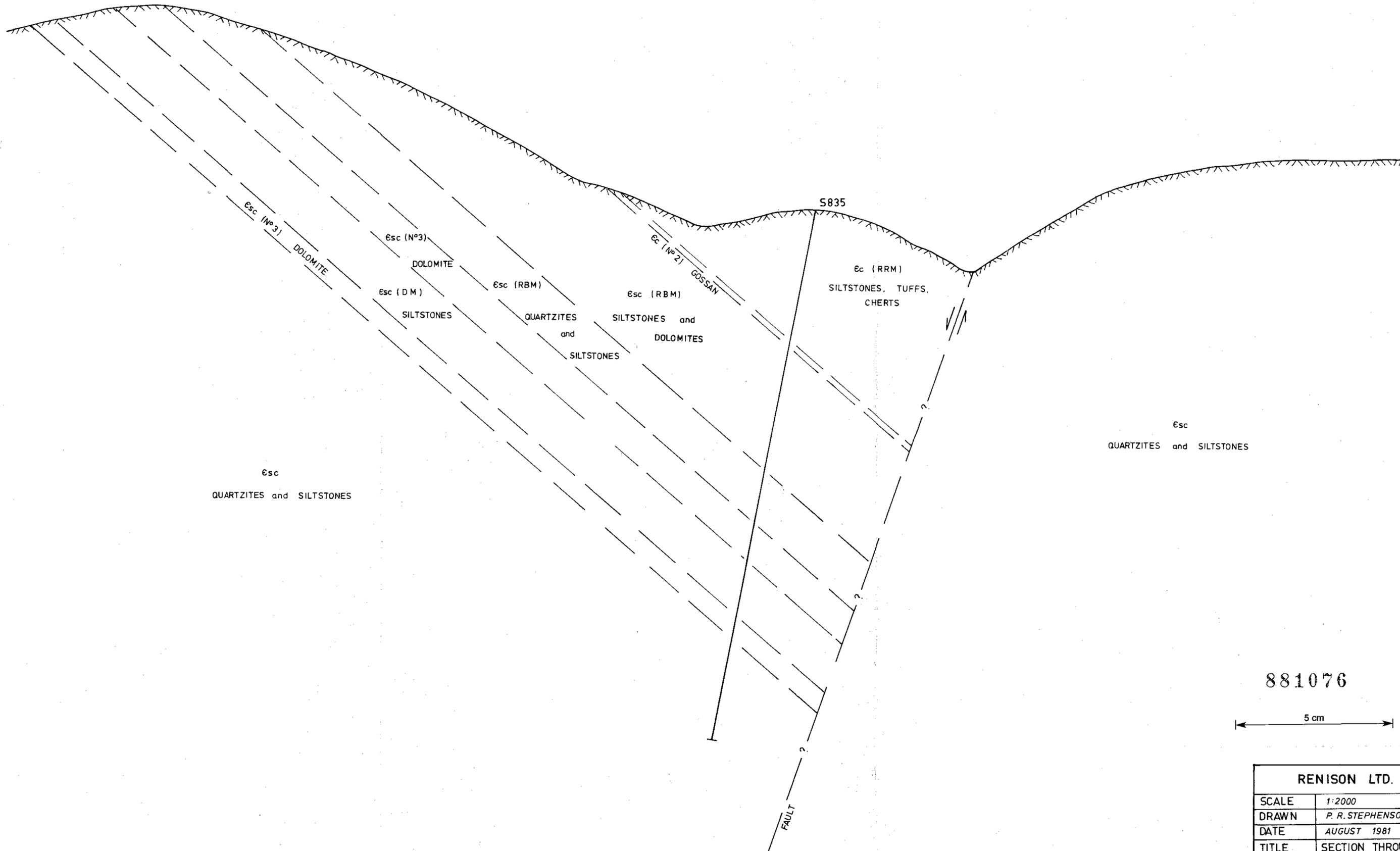
881075

5 cm

|              |  |
|--------------|--|
| RENISON LTD. |  |
| SCALE        | 1:2000   |
| DRAWN        | P. R. STEPHENSON                               |
| DATE         | AUGUST 1981                                    |
| TITLE        | SECTION THROUGH<br>S 705<br>Looking North East |

81-1609

FIG. 5



Esc  
QUARTZITES and SILTSTONES

Esc (N°3)  
DOLOMITE

Esc (N°3)  
DOLOMITE  
Esc (DM)  
SILTSTONES

Esc (RBM)  
QUARTZITES  
and  
SILTSTONES

Esc (RBM)  
SILTSTONES and  
DOLOMITES

Ec (N°2)  
GOSSAN

Ec (RRM)  
SILTSTONES, TUFFS,  
CHERTS

Esc  
QUARTZITES and SILTSTONES

881076

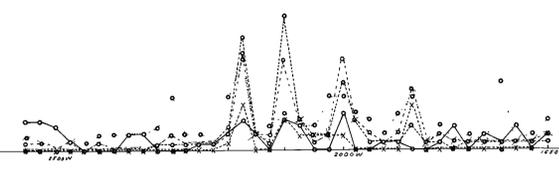
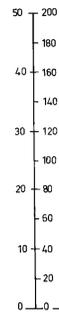
5 cm

|              |   |
|--------------|---|
| RENISON LTD. |   |
| SCALE        | 1:2000                                    |
| DRAWN        | P. R. STEPHENSON                          |
| DATE         | AUGUST 1981                               |
| TITLE        | SECTION THROUGH<br>S 835<br>Looking North |

81-1609

FIG. 6

Geochemistry  
P.P.M.



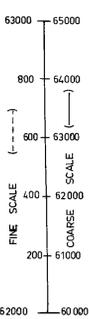
I.P. Data  
CHARGEABILITY IN MILLIVOLTS/VOLT (---)



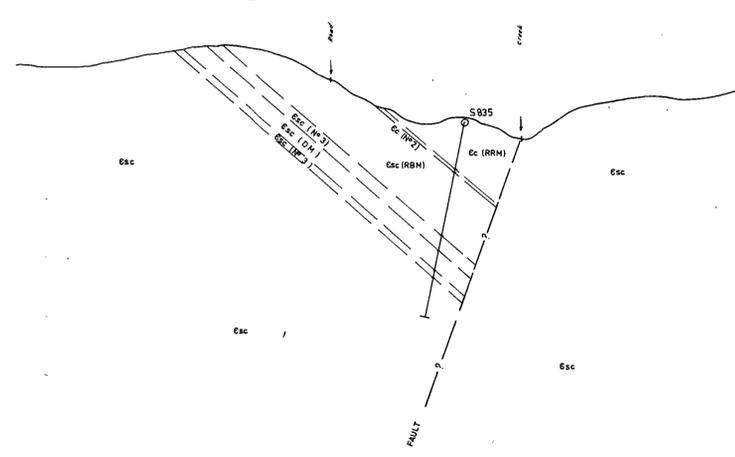
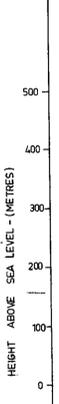
RESISTIVITY IN Ohm-METRES (---)



Total Magnetic Field (δ)



Topography & Geology  
HEIGHT ABOVE SEA LEVEL - (METRES)



881077

**RENISON LIMITED**  
**ARGENT GRID**  
**LINE 6**  
 SECTION LOOKING N.W.  
 SCALE 1:5000 METRES

|             |           |
|-------------|-----------|
| DRAWN       | J.P.K.    |
| TRACED      | C.A.C.    |
| DATE        | July 1977 |
| SCALE       | 1:5000    |
| DRAWING No. | FIG. 7    |

81-1609

**I.P. DATA**  
 CHARGEABILITY & RESISTIVITY  
 --- GRADIENT ARRAY  
 -X-X- POLE-DIPOLE

**MAGNETICS**  
 5000 SCALE  
 1000 SCALE

**GEOCHEMISTRY**

|  |    |
|--|----|
|  | Sn |
|  | Cu |
|  | Pb |
|  | Zn |
|  | As |
|  | W  |

**GEOLOGY**

|  |  |
|--|--|
|  | Qra Quaternary alluvium, fluvio-glacial                      |
|  | UEc Upper Crimson Creek Formation                            |
|  | LcC Lower Crimson Creek Formation (Mine sequence equivalent) |
|  | Esc Success Creek Group                                      |



HOLE No. : S764



RENISON LIMITED  
**DIAMOND DRILL HOLE PLOT**

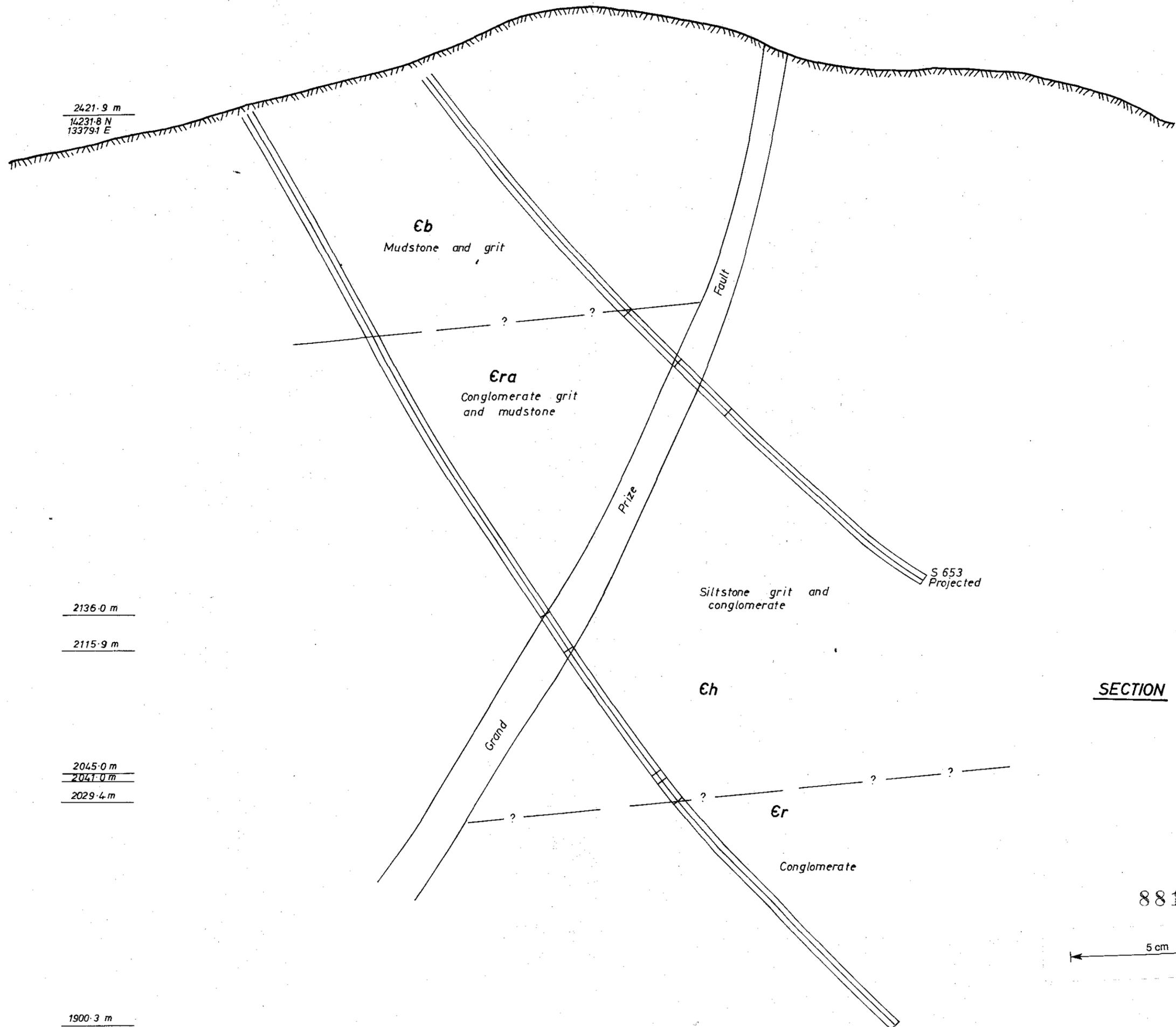


FIG. 8

81-1609

HOLE No. : S 062



# RENISON LIMITED DIAMOND DRILL HOLE PLOT

2353.9 m

13687.2 N  
13483.8 E

2190.6 m

2162.8 m

1849.4 m

Efe ?

Grand

Prize

Fault

Eb ?

SECTION

881079

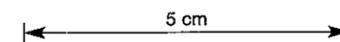


FIG. 9

81-1609