



HOLE No. : C 37

## SAMPLE DATA

SHEET No. : .....

| LENS | SAMPLE No. | ROCK TYPE                | Σ | INTERVAL |       | Length (L) | Assays (A) |       |      | Product (A x L) |        |       |
|------|------------|--------------------------|---|----------|-------|------------|------------|-------|------|-----------------|--------|-------|
|      |            |                          |   | From     | To    |            | % Snt      | % Sns | % Cu | P. Snt          | P. Sns | P. Cu |
|      | 622        | lode chert               |   | 180'     | 183'  | 3'         | 0.94       |       | 1.20 |                 |        |       |
|      | 623        | lode                     |   | 183'     | 186'  | 3'         | 2.27       |       | 0.62 |                 |        |       |
|      | 624        | lode chert               |   | 186'     | 189'  | 3'         | 1.96       |       | 0.60 |                 |        |       |
|      | 625        | lode chert               |   | 189'     | 192'  | 3'         | 1.10       |       | 0.29 |                 |        |       |
|      | 626        | lode                     |   | 192'     | 195'  | 3'         | 1.78       |       | 0.56 |                 |        |       |
|      | 627        | lode                     |   | 195'     | 198'  | 3'         | 0.80       |       | 0.25 |                 |        |       |
|      |            |                          | Σ | 180'     | 198'  | 18'        | 1.46       |       |      |                 |        |       |
|      | 628        | lode                     |   | 198'     | 201'  | 3'         | 0.55       |       | 0.15 |                 |        |       |
|      | 629        | lode                     |   | 201'     | 204'  | 3'         | 0.50       |       | 0.22 |                 |        |       |
|      |            |                          | Σ | 198'     | 204'  | 6'         | 0.52       |       |      |                 |        |       |
|      | 630        | lode chert               |   | 204'     | 207'  | 3'         | 0.98       |       | 1.10 |                 |        |       |
|      | 631        | lode                     |   | 207'     | 210'  | 3'         | 2.23       |       | 1.10 |                 |        |       |
|      | 632        | lode                     |   | 210'     | 213'  | 3'         | 1.64       |       | 0.44 |                 |        |       |
|      | 633        | lode                     |   | 213'     | 214½' | 1½'        | 1.31       |       | 0.45 |                 |        |       |
|      |            |                          | Σ | 204'     | 214½' | 10½'       | 1.57       |       |      |                 |        |       |
|      | 634        | Chert                    |   | 214½'    | 218½' | 4'         | TR         |       | TR   |                 |        |       |
|      | 635        | lode chert               |   | 218½'    | 221½' | 3'         | 1.98       |       | 1.42 |                 |        |       |
|      | 636        | Sandstone<br>lode, chert |   | 22½'     | 224½' | 3'         | 1.23       |       | 0.50 |                 |        |       |
|      |            |                          |   |          |       |            |            |       |      |                 | 23     | 002   |

HOLE No. : C 37

**SAMPLE DATA**

SHEET No. : .....

| LENS | SAMPLE No. | ROCK TYPE      | Σ | INTERVAL     |              | Length (L) | Assays (A) |       |      | Product (A x L) |        |       |
|------|------------|----------------|---|--------------|--------------|------------|------------|-------|------|-----------------|--------|-------|
|      |            |                |   | From         | To           |            | % Snt      | % Sns | % Cu | P. Snt          | P. Sns | P. Cu |
|      | 637        | Lode           |   | 224½'        | 227½'        | 3'         | 0.97       |       | 0.50 |                 |        |       |
|      | 638        | Lode           |   | 227½'        | 230½'        | 3'         | 1.37       |       | 0.42 |                 |        |       |
|      | 639        | Lode           |   | 230½'        | 232'         | 1½'        | 0.98       |       | 0.48 |                 |        |       |
|      |            |                | Σ | 218½'        | 232'         | 13½'       | 1.32       |       |      |                 |        |       |
|      |            |                | Σ | 180'<br>51.9 | 232'<br>70.7 | 52'        | 1.23       |       | 0.57 |                 |        |       |
|      |            | Lode & chert   |   | 334'         | 337'         | 3'         | 0.44       |       |      |                 |        |       |
|      |            | Vein           |   | 337'         | 340'         | 3'         | TR         |       |      |                 |        |       |
|      |            | Chert S. Stone |   | 340'         | 343'         | 3'         | 3.48       |       |      |                 |        |       |
|      |            | S. Stone       |   | 343'         | 346'         | 3'         | 1.71       |       |      |                 |        |       |
|      |            | Lode chert     |   | 346'         | 349'         | 3'         | 2.97       |       |      |                 |        |       |
|      |            | Lode           |   | 349'         | 352'         | 3'         | 2.60       |       |      |                 |        |       |
|      |            | Lode & chert   |   | Σ            | 340'         | 352'       | 12'        | 2.69  |      |                 |        |       |
|      |            |                | Σ | 334'         | 352'         | 18'        | 1.87       |       |      |                 |        |       |
|      |            |                |   | 51.9         | 70.7         | 11         | 5.49       |       |      |                 |        |       |

HOLE No. : C.37

# GEOLOGICAL LOG

SHEET No. : One

FOOTAGE : From 0' 0" To 145' 0"

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY  | DESCRIPTION | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|--|-------------|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |  |             | % Snt  | % Sns | % Cu |
| 0' 0"         | 14' 0"  |                             |            |                    |                    |          | 14' 0" | Siltstone and Sandstone (core discarded)   |             |        |       |      |
| 14' 0"        | 45' 6"  |                             |            |                    | 40°                |          | 31' 6" | Chert and Siliceous shale  |             |        |       |      |
| 5' 6"         | 94' 0"  |                             |            |                    |                    |          | 48' 6" | Sandstone Felspathic, fine, massive.   |             |        |       |      |
|               |         | 49' 6"                      | 3/8"       | 10°                |                    |          |        | Vein: Drusy Quartz with leached and oxidized sulphide, fine tin and chlorite.        |             |        |       |      |
|               |         | 53'                         | 1/2"       | 10°                |                    |          |        | Vein: Quartz as above.   |             |        |       |      |
|               |         | 73'                         | 1/2"       | 40°                |                    |          |        | Vein Quartz, leached.  |             |        |       |      |
|               |         | 75'                         | 1"         | 40°                |                    |          |        | Vein Quartz, leached.  |             |        |       |      |
| 94' 0"        | 99' 0"  |                             |            |                    |                    |          | 5' 0"  | Shale Siliceous.   |             |        |       |      |
| 99' 0"        | 120' 0" |                             |            |                    |                    |          | 21' 0" | Sandstone Felspathic, fine, massive.   |             |        |       |      |
|               |         | 102'                        | 3/4"       | 40°                |                    |          |        | Vein Drusy Quartz.   |             |        |       |      |
|               |         | 109' 6"                     | 2 1/2"     |                    |                    |          |        | Vein Broken irregular drusy quartz.  |             |        |       |      |
|               |         | 112'                        | 3/4"       | 35°                |                    |          |        | Vein Drusy quartz, with pyrrhotite, chalcopyrite, marmatite and chlorite.            |             |        |       |      |
| 120' 0"       | 140' 0" |                             |            |                    |                    |          | 20' 0" | Shale with intercalated chert. (cont.).  |             |        |       |      |
|               |         | 120'                        | 1 1/2"     | 60°                | 60°                |          |        | Vein Quartz on top contact (parallel to bedding).                                    |             |        |       |      |
|               |         | 137'                        | 1"         | 55°                |                    |          |        | Vein Quartz.   |             |        |       |      |
| 140' 0"       | 145' 0" |                             |            |                    | 45° to 55°         |          | 5' 0"  | Chert and cherty shale, weakly mineralised with sulphides between 143'6" and 144'3". |             |        |       |      |

23 004

HOLE No. : C.37

# GEOLOGICAL LOG

SHEET No. : Two

FOOTAGE: From 145' 0" To 189' 6"

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION  | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|--|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |  | % Snt  | % Sns | % Cu |
| 145' 0"       | 148' 0" |                             |            |                    |                    |          | 3' 0"  | Shale.    |  |        |       |      |
| 148' 0"       | 159' 0" |                             |            |                    |                    |          | 11' 0" | Sandstone | Felspathic, fine, massive.   |        |       |      |
|               |         | 153'                        | 3/8        | 20°                |                    |          |        | Vein:     | Quartz.  |        |       |      |
| 159' 0"       | 175' 0" |                             |            |                    | 50°                |          | 16' 0" | Shale     | and siliceous shale.   |        |       |      |
| 175' 0"       | 180' 0" |                             |            |                    | 35° to 45°         |          | 5' 0"  | Chert     | deformed, and brecciated.  |        |       |      |
| 180' 0"       | 181' 0" |                             |            |                    |                    |          | 1' 0"  | LODE      | chert, moderately mineralised with pyrrhotite and chalcopyrite.                |        |       |      |
| 181' 0"       | 183' 0" |                             |            |                    |                    |          | 2' 0"  | Chert     | and siliceous shale, brecciated contains inclusions of quartz with pyrrhotite. |        |       |      |
| 183' 0"       | 185' 0" |                             |            |                    |                    |          | 2' 0"  | LODE      | Chert, mineralised with pyrrhotite chalcopyrite and little free quartz.        |        |       |      |
| 185' 0"       | 186' 6" |                             |            |                    |                    |          | 1' 6"  | LODE      | Chert, poorly mineralised.   |        |       |      |
| 186' 6"       | 187' 6" |                             |            |                    | 45°                |          | 1' 0"  | LODE      | Sandstone, moderate pyritic mineralisation.                                    |        |       |      |
| 187' 6"       | 188' 0" |                             |            |                    |                    |          | 0' 6"  | Chert     | and shale mineralised.   |        |       |      |
| 188' 0"       | 189' 6" |                             |            |                    | 45°                |          | 1' 6"  | LODE      | Sandstone, moderate pyrrhotitic mineralisation.                                |        |       |      |
|               |         | 188' 6"                     | 1/4"       |                    |                    |          |        | Vein:     | Arsenopyrite, with chalcopyrite and carbonates.                                |        |       |      |

23 005

HOLE No. : C. 37

## GEOLOGICAL LOG

SHEET No. : Three

FOOTAGE: From 189' 6" To 236' 0"

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION  | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|--|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |  | % Snt  | % Sns | % Cu |
| 189' 6"       | 190' 6" |                             |            |                    |                    |          | 1' 0"  | Chert     | and shale, deformed.   |        |       |      |
| 190' 6"       | 198' 6" |                             |            |                    |                    |          | 8' 0"  | LODE      | Sandstone and chert sparse pyrrhotite,<br>and chalcopryite mineralisation.<br>(specimen 37 -191)               |        |       |      |
| 198' 6"       | 205' 6" |                             |            |                    | 45°                |          | 7' 0"  | LODE      | chert poor, irregular pyrrhotite,<br>chalcopryite and arsenopryite mineral-<br>isation.                        |        |       |      |
| 205' 6"       | 206' 6" |                             |            |                    | 40°                |          | 1' 0"  | Chert     |  |        |       |      |
| 206' 6"       | 214' 6" |                             |            |                    | 30° to<br>60°      |          | 8' 0"  | LODE      | Sandstone chert, moderately mineralised<br>with pyrrhotite, chalcopryite and pyrite.                           |        |       |      |
| 214' 6"       | 218' 6" |                             |            |                    |                    |          | 4' 0"  | Chert     | with very minor pyrrhotite   |        |       |      |
| 218' 6"       | 221' 3" |                             |            |                    |                    |          | 2' 9"  | LODE      | chert and fine sandstone with pyrrhotite<br>and chalcopryite.  |        |       |      |
| 221' 3"       | 222' 6" |                             |            |                    |                    |          | 1' 3"  | Chert.    |  |        |       |      |
| 222' 6"       | 232' 0" |                             |            |                    |                    |          | 9' 6"  | LODE      | chert and fine sandstone with sparse<br>pyrrhotite mineralisation. Last 3" contains<br>irregular drusy pyrite. |        |       |      |
| 232' 0"       | 236' 0" |                             |            |                    |                    |          | 4' 0"  | Chert     | massive "clean".   |        |       |      |
|               |         |                             |            |                    |                    |          |        |           |  | 23     | 006   |      |

# GEOLOGICAL LOG

SHEET No. Four

HOLE No. : C.37

FOOTAGE: From 236' 0" To 333' 0"

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            |          | FOOTAGE |           | LITHOLOGY  | DESCRIPTION | ASSAYS |      |  |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|---------|-----------|--|-------------|--------|------|--|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length  | % Snt     |  |             | % Sns  | % Cu |  |
| 36' 0"        | 249' 0" |                             |            |                    |                    |          | 13' 0"  | Sandstone | Felspathic, fine massive.  |             |        |      |  |
|               |         | 239'                        | 3"         | 40°                |                    |          |         | Vein:     | Quartz, well mineralised with pyrrhotite, chalcopyrite and minor marmatite, carbonates and fluorite. |             |        |      |  |
|               |         | 248' 6"                     | 3"         |                    |                    |          |         | Vein:     | Irregular quartz, well mineralised as above.   |             |        |      |  |
| 249' 0"       | 272' 0" |                             |            |                    |                    |          | 23' 0"  | Siltstone | Siliceous, some cherty.  |             |        |      |  |
| 272' 0"       | 283' 0" |                             |            |                    |                    |          | 11' 0"  | Sandstone | Felspathic, fine massive contact with above 45° to core.   |             |        |      |  |
| 283' 0"       | 286' 0" |                             |            |                    |                    |          | 3' 0"   | Siltstone | Cherty.  |             |        |      |  |
| 286' 0"       | 288' 6" |                             |            |                    |                    |          | 2' 6"   | Shale     |  |             |        |      |  |
| 288' 6"       | 304' 6" |                             |            |                    |                    |          | 16' 0"  | Siltstone | Cherty, massive, pale yellow/grey to green.  |             |        |      |  |
| 304' 6"       | 306' 0" |                             |            |                    |                    |          | 1' 6"   | Sandstone | Felspathic, massive. Top contact 40°, bottom contact 30°.  |             |        |      |  |
| 306' 0"       | 325' 6" |                             |            |                    |                    |          | 19' 6"  | Sandstone | Felspathic, siliceous siltstone and silty shale all interbedded, with cherty intercalations.         |             |        |      |  |
| 325' 6"       | 333' 0" |                             |            |                    | 60°                |          | 7' 6"   | Shale     | Pale cherty shale.   |             |        |      |  |

23 007

HOLE No. : C. 37

## GEOLOGICAL LOG

SHEET No. Five

FOOTAGE: From 333' 0" To 380' 0"

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION  | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|--|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |  | % Snt  | % Sns | % Cu |
| 333' 0"       | 334' 0" |                             |            |                    |                    |          | 1' 0"  | Chert     | Intercalated, and cherty siltstone.  |        |       |      |
| 334' 0"       | 336' 0" |                             |            |                    |                    |          | 2' 0"  | LODE      | Sandstone with moderate pyrrhotitic mineralisation with minor siderite and intercalated chert. |        |       |      |
| 336' 0"       | 338' 3" |                             |            |                    |                    |          | 2' 3"  | Chert     | and cherty siltstone.  |        |       |      |
|               |         | 337' 3"                     | ½"         | 35°                |                    |          |        | Vein      | Quartz/siderite with pyrrhotite.   |        |       |      |
| 338' 3"       | 341' 0" |                             |            |                    |                    |          | 12' 9" | Sandstone | with irregular quartz, pyrite and siderite mineralisation.                                     |        |       |      |
| 341' 0"       | 341' 6" |                             |            |                    |                    |          | 0' 6"  | Chert     | and Sandstone.   |        |       |      |
| 341' 6"       | 351' 0" |                             |            |                    | 55°                |          | 9' 6"  | LODE      | Sandstone, moderate pyrrhotite and chalcopyrite mineralisation.                                |        |       |      |
| 351' 0"       | 352' 0" |                             |            |                    |                    |          | 1' 0"  | Chert     | and cherty siltstone.  |        |       |      |
| 352' 0"       | 358' 6" |                             |            |                    |                    |          | 6' 6"  | Sandstone | Felspathic with weak pyritic mineralisation and minor siderite alteration.                     |        |       |      |
| 358' 6"       | 369' 0" |                             |            |                    |                    |          | 10' 6" | Siltstone | Intercalated siliceous, felspathic sandstone and shale.  |        |       |      |
| 369' 0"       | 377' 0" |                             |            |                    |                    |          | 8' 0"  | Sandstone | Felspathic, fine, massive.   |        |       |      |
| 377' 0"       | 380' 0" |                             |            |                    |                    |          | 3' 0"  | Sandstone | Intercalated and brecciated felspathic sandstone and shale.                                    |        |       |      |

23 008



HOLE No. : C. 37

## GEOLOGICAL LOG

SHEET No. : One.

FOOTAGE : From 0' 0" To 63' 6"

| DRILL FOOTAGE |        | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            |          | FOOTAGE |           | LITHOLOGY  | DESCRIPTION | ASSAYS |      |  |
|---------------|--------|-----------------------------|------------|--------------------|--------------------|----------|---------|-----------|--|-------------|--------|------|--|
| From          | To     | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length  | % Snt     |  |             | % Sns  | % Cu |  |
| 0' 0"         | 14' 0" |                             |            |                    |                    |          | 14' 0"  | Siltstone | and Sandstone - core discarded (R. Dale's Log).                        |             |        |      |  |
| 14' 0"        | 15' 0" |                             |            |                    |                    |          | 1' 0"   | Shale     | light grey - chocolate brown.  |             |        |      |  |
| 15' 0"        | 23' 0" |                             |            |                    | 22°                |          | 8' 0"   | Shale     | chocolate brown - finely foliated with felspar spots.                  |             |        |      |  |
| 23' 0"        | 26' 0" |                             |            |                    | 28°                |          | 3' 0"   | Shale     | as above.  |             |        |      |  |
| 26' 0"        | 27' 0" |                             |            |                    |                    |          | 1' 0"   | Shale     | as above.  |             |        |      |  |
| 27' 0"        | 28' 0" |                             |            |                    |                    |          | 1' 0"   | Shale     | as above.  |             |        |      |  |
| 28' 0"        | 30' 0" |                             |            |                    |                    |          | 2' 0"   | Shale     | as above.  |             |        |      |  |
| 30' 0"        | 36' 6" |                             |            |                    | 28°                |          | 6' 6"   | Shale     | as above.  |             |        |      |  |
| 36' 6"        | 39' 6" |                             |            |                    |                    |          | 3' 0"   | Shale     | as above.  |             |        |      |  |
| 39' 6"        | 45' 6" |                             |            |                    | 18°                |          | 6' 0"   | Shale     | light grey, finely foliated - hard and silicified, with felspar spots. |             |        |      |  |
| 45' 6"        | 53' 6" |                             |            |                    |                    |          | 8' 0"   | Sandstone | medium grey, micaceous.  |             |        |      |  |
|               |        | 49' 6"                      | ½"         | 10°                |                    |          |         | Vein:     | vugy Quartz - limonite vein with sulphides                             |             |        |      |  |
|               |        | 52' 3"                      | ½"         | 10°                |                    |          |         | Vein:     | vugy Quartz - Chlorite.  |             |        |      |  |
| 53' 6"        | 63' 6" |                             |            |                    |                    |          | 10' 0"  | Sandstone | medium grey, micaceous.  |             |        |      |  |

23 010

HOLE No. : C. 37

## GEOLOGICAL LOG

SHEET No. Two.

FOOTAGE: From 63' 6" To 120' 0".

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION  | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|--|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |  | % Snt  | % Sns | % Cu |
| 63' 6"        | 74' 0"  |                             |            |                    |                    |          | 10' 6" | Sandstone | medium grey, micaceous.  |        |       |      |
|               |         | 73' 0"                      | 1½"        | 38°                |                    |          |        | Vein:     | banded vugy Quartz - limonite vein with Chlorite, margins.                             |        |       |      |
| 74' 0"        | 85' 0"  |                             |            |                    |                    |          | 11' 0" | Sandstone | medium grey, micaceous.  |        |       |      |
|               |         | 75' 0"                      | 3½"        | 35°                |                    |          |        | Vein:     | banded, vugy Quartz with chlorite margins.   |        |       |      |
| 85' 0"        | 94' 0"  |                             |            |                    |                    |          | 9' 0"  | Sandstone | medium grey, micaceous.  |        |       |      |
| 94' 0"        | 99' 0"  |                             |            |                    | 32°                |          | 5' 0"  | Shale     | dark grey - dark brown, banded, - silicified and hard - some bands with felspar spots. |        |       |      |
| 99' 0"        | 109' 0" |                             |            |                    |                    |          | 10' 0" | Sandstone | medium grey, micaceous.  |        |       |      |
|               |         | 102' 3"                     | 1"         | 42°                |                    |          |        | Vein:     | banded vugy Quartz, with Chlorite margins.   |        |       |      |
| 109' 0"       | 119' 0" |                             |            |                    |                    |          | 10' 0" | Sandstone | medium grey, micaceous.  |        |       |      |
|               |         | 109' 6"                     | 2½"        |                    |                    |          |        | Vein:     | fragments of vugy Quartz, with Chlorite margins.                                       |        |       |      |
|               |         | 112' 4"                     | 1"         | 36°                |                    |          |        | Vein:     | vugy Quartz, with massive Chalcoppyrite and minor Sphalerite, Chlorite and Pyrrhotite. |        |       |      |
| 119' 0"       | 120' 0" |                             |            |                    |                    |          | 1' 0"  | Sandstone | medium grey, micaceous.  |        |       |      |

23 011

HOLE No. : C. 37

## GEOLOGICAL LOG

SHEET No. Three

FOOTAGE: From 120' 0" To 146' 0".

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION   | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|---|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |   | % Snt  | % Sns | % Cu |
|               |         | 120' 0"                     | 1 1/2"     | 55°                |                    |          |        | Vein:     | banded Quartz, with minor Chlorite.   |        |       |      |
| 120' 0"       | 124' 6" |                             |            |                    | 32°                |          | 4' 6"  | Shale     | light grey, banded - hard and siliceous.  |        |       |      |
| 124' 6"       | 125' 9" |                             |            |                    | 28°                |          | 1' 3"  | Chert     | light grey, banded.   |        |       |      |
| 125' 9"       | 129' 0" |                             |            |                    |                    |          | 3' 3"  | Shale     | medium to light grey, banded - hard and siliceous.                              |        |       |      |
| 129' 0"       | 135' 0" |                             |            |                    |                    |          | 6' 0"  | Shale     | as above, with felspar spots.   |        |       |      |
| 135' 0"       | 139' 0" |                             |            |                    | 43°                |          | 4' 0"  | Shale     | medium to light grey, banded - hard and siliceous with felspar spots.           |        |       |      |
|               |         | 137' 6"                     | 1"         | 62°                |                    |          |        | Vein:     | Quartz.   |        |       |      |
| 139' 0"       | 141' 0" |                             |            |                    |                    |          | 2' 0"  | Chert     | medium grey - medium brown, banded, (associated with joints and/ or faults?)    |        |       |      |
|               |         | 139' 6"                     |            | 42°<br>20°         |                    |          |        |           | Two joint ? fractures along which bedding laminae show displacement = fault (?) |        |       |      |
| 141' 0"       | 144' 0" |                             |            |                    |                    |          | 3' 0"  | Shale     | medium grey - medium brown, banded, with chert bands & felspar spots.           |        |       |      |
|               |         | 143' 9"                     | 3"         | 60°                |                    |          |        | Vein:     | vugy Quartz - Chlorite, with Chlorite margins.                                  |        |       |      |
| 144' 0"       | 146' 0" |                             |            |                    | 50°                |          | 2' 0"  | Shale     | medium to light grey, banded, with chert bands.                                 |        |       |      |

23 012

HOLE No. : C. 37

## GEOLOGICAL LOG

SHEET No. Four.

FOOTAGE: From 146' 0" To 183' 0".

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION   | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|---|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |   | % Snt  | % Sns | % Cu |
| 146' 0"       | 148' 0" |                             |            |                    |                    |          | 2' 0"  | Shale     | medium to light grey, banded.   |        |       |      |
| 148' 0"       | 150' 0" |                             |            |                    |                    |          | 2' 0"  | Sandstone | medium grey, micaceous.   |        |       |      |
| 150' 0"       | 155' 0" |                             |            |                    |                    |          | 5' 0"  | Sandstone | as above.   |        |       |      |
|               |         | 153' 0"                     | ½"         | 18°                |                    |          |        | Vein:     | vugy Quartz.  |        |       |      |
| 155' 0"       | 158' 0" |                             |            |                    | 74°                |          | 3' 0"  | Sandstone | medium grey, micaceous - contact @ 158'<br>makes 74° wdc (faulted?)                 |        |       |      |
| 158' 0"       | 159' 0" |                             |            |                    | 35°                |          | 1' 0"  | Shale     | medium grey to brown, finely foliated,<br>- hard and siliceous, with felspar spots. |        |       |      |
| 159' 0"       | 164' 0" |                             |            |                    | 42°                |          | 5' 0"  | Shale     | as above.   |        |       |      |
|               |         | 161' 0"                     |            | 75°                |                    |          |        |           | joints and clear planes (?) along which<br>bedding lamina show displacement.        |        |       |      |
| 164' 0"       | 170' 0" |                             |            |                    |                    |          | 6' 0"  | Shale     | medium grey to brown, finely foliated,<br>with felspar spots.                       |        |       |      |
| 170' 0"       | 174' 6" |                             |            |                    |                    |          | 4' 6"  | Shale     | medium to light grey, banded.   |        |       |      |
| 174' 6"       | 180' 0" |                             |            |                    | 35°                |          | 5' 6"  | Chert     | medium grey - chocolate brown, banded.  |        |       |      |
| 180' 0"       | 181' 9" |                             |            |                    |                    |          | 1' 9"  | LODE      | massive Pyrrhotite and Chalcopyrite,<br>Quartz - Carbonate.                         |        |       |      |
| 181' 9"       | 183' 0" |                             |            |                    |                    |          | 1' 3"  | Chert     | medium grey - chocolate brown, banded.  |        |       |      |

23 013



HOLE No. : C.37

## GEOLOGICAL LOG

SHEET No. : Six.

FOOTAGE: From 198' 0" To 213' 0".

| DRILL FOOTAGE |          | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION  | ASSAYS |       |      |
|---------------|----------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|--|--------|-------|------|
| From          | To       | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |  | % Snt  | % Sns | % Cu |
| 198' 0"       | 198' 10" |                             |            |                    |                    |          | 0' 10" | LODE      | massive Pyrrhotite and Chalcopyrite -<br>banded, - weakly mineralised Quartz -<br>Carbonate.   |        |       |      |
| 198' 10"      | 201' 0"  |                             |            |                    |                    |          | 2' 2"  | Chert     | yellow brown, banded.  |        |       |      |
| 201' 0"       | 203' 9"  |                             |            |                    |                    |          | 2' 9"  | Chert     | light grey - yellow-brown, banded, with<br>3" Lode (Pyrrhotite and Chalcopyrite)<br>@ 201' 4". |        |       |      |
| 203' 9"       | 204' 2"  |                             |            |                    |                    |          | 0' 5"  | LODE      | massive Pyrrhotite and Chalcopyrite.   |        |       |      |
| 204' 2"       | 205' 3"  |                             |            |                    |                    |          | 1' 1"  | Chert     | yellow-brown/ light grey, banded -<br>hard and siliceous.                                      |        |       |      |
| 205' 3"       | 206' 0"  |                             |            |                    |                    |          | 0' 9"  | LODE      | Pyrrhotite and Chalcopyrite (massive), -<br>banded.  |        |       |      |
| 206' 0"       | 207' 0"  |                             |            |                    |                    |          | 1' 0"  | Chert     | light grey - yellow brown, banded, with<br>minor siliceous shale bands.                        |        |       |      |
| 207' 0"       | 210' 0"  |                             |            |                    |                    |          | 3' 0"  | LODE      | massive Pyrrhotite and Chalcopyrite and<br>Sphalerite - banded.                                |        |       |      |
| 210' 0"       | 213' 0"  |                             |            |                    | 48°                |          | 3' 0"  | LODE      | as above, with light grey chert bands,<br>3" true width @ 211' 6" and 212' 6".                 |        |       |      |

23 015



HOLE No. : C. 37

## GEOLOGICAL LOG

SHEET No. Eight

FOOTAGE: From 230' 6" To 264' 0"

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION   | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|---|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |   | % Snt  | % Sns | % Cu |
| 230' 6"       | 232' 0" |                             |            |                    | 37°                |          | 1' 6"  | LODE      | vugy nature with massive Pyrrhotite and Chalcopyrite, Pyrite plus minor Sphalerite                  |        |       |      |
| 232' 0"       | 236' 0" |                             |            |                    | 36°                |          | 4' 0"  | Shale     | light grey, finely foliated - hard and siliceous.   |        |       |      |
| 236' 0"       | 236' 9" |                             |            |                    |                    |          | 0' 9"  | Shale     | as above - contact @ 236' 9" makes 26° wdc.   |        |       |      |
| 236' 9"       | 240' 6" |                             |            |                    |                    |          | 3' 9"  | Sandstone | medium grey, micaceous.   |        |       |      |
|               |         | 239' 6"                     | 4"         | 33°                |                    |          |        | Vein:     | Quartz - massive Pyrrhotite and Chalcopyrite, with minor Sphalerite, carbonates and green Fluorite. |        |       |      |
| 240' 6"       | 249' 0" |                             |            |                    |                    |          | 8' 6"  | Sandstone | medium grey, micaceous.   |        |       |      |
|               |         | 248' 8"                     | 3"         | 26°                |                    |          |        | Vein:     | Quartz - massive Pyrrhotite and Chalcopyrite.   |        |       |      |
| 249' 0"       | 251' 0" |                             |            |                    |                    |          | 2' 0"  | Shale     | light grey, micaceous. - hard and siliceous, with felspar spots.                                    |        |       |      |
| 251' 0"       | 251' 7" |                             |            |                    |                    |          | 0' 7"  | Sandstone | medium grey, micaceous.   |        |       |      |
| 251' 7"       | 255' 0" |                             |            |                    |                    |          | 3' 5"  | Shale     | light grey micaceous - hard and siliceous with felspar spots.                                       |        |       |      |
| 255' 0"       | 264' 0" |                             |            |                    | 40°                |          | 9' 0"  | Shale     | light grey, banded - hard and siliceous with felspar spots.   |        |       |      |

28 017

HOLE No.: C. 37

## GEOLOGICAL LOG

SHEET No.: Nine

FOOTAGE: From 264' 0" To 307' 0".

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            |          | FOOTAGE |           | LITHOLOGY   | DESCRIPTION | ASSAYS |      |  |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|---------|-----------|---|-------------|--------|------|--|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length  | % Snt     |   |             | % Sns  | % Cu |  |
| 264' 0"       | 269' 5" |                             |            |                    |                    |          | 5' 6"   | Shale     | light grey - light brown, banded -<br>hard and siliceous, with felspar spots. |             |        |      |  |
| 269' 6"       | 272' 6" |                             |            |                    | 32°                |          | 3' 0"   | Shale     | light grey - light brown, banded -<br>hard and siliceous, with felspar spots. |             |        |      |  |
| 272' 6"       | 273' 6" |                             |            |                    |                    |          | 1' 0"   | Sandstone | medium grey, micaceous - Contact @ 272' 6"<br>makes 40° wdc.                  |             |        |      |  |
| 273' 6"       | 276' 0" |                             |            |                    |                    |          | 2' 6"   | Sandstone | medium grey, micaceous.   |             |        |      |  |
| 276' 0"       | 278' 0" |                             |            |                    |                    |          | 2' 0"   | Sandstone | as above.   |             |        |      |  |
| 278' 0"       | 282' 0" |                             |            |                    |                    |          | 4' 0"   | Sandstone | as above.   |             |        |      |  |
| 282' 0"       | 283' 0" |                             |            |                    |                    |          | 1' 0"   | Sandstone | as above.   |             |        |      |  |
| 283' 0"       | 285' 0" |                             |            |                    |                    |          | 2' 0"   | Sandstone | as above.   |             |        |      |  |
| 285' 0"       | 285' 6" |                             |            |                    |                    |          | 0' 6"   | Shale     | medium to light grey, banded - hard and<br>siliceous with felspar spots.      |             |        |      |  |
| 285' 6"       | 290' 6" |                             |            |                    |                    |          | 5' 0"   | Shale     | medium to light grey banded - hard and<br>siliceous, with felspar spots.      |             |        |      |  |
| 290' 6"       | 304' 0" |                             |            |                    | 43°                |          | 14' 3"  | Shale     | light grey banded - hard and siliceous,<br>with felspar spots.                |             |        |      |  |
| 304' 0"       | 307' 0" |                             |            |                    |                    |          | 2' 3"   | Sandstone | medium grey, micaceous, - contact @ 304' 0"<br>makes 32° wdc.                 |             |        |      |  |

23 018

HOLE No. : C. 37

## GEOLOGICAL LOG

SHEET No. : Ten

FOOTAGE : From 304' 9" To 337' 0"

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION  | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|--|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |  | % Snt  | % Sns | % Cu |
| 304' 9"       | 307' 0" | (cont.)                     |            |                    |                    |          |        |           | Contact @ 307' 0" makes 40° wdc.   |        |       |      |
| 307' 0"       | 308' 0" |                             |            |                    |                    |          | 1' 0"  | Shale     | dark grey, banded = hard and siliceous.  |        |       |      |
| 308' 0"       | 311' 6" |                             |            |                    |                    |          | 3' 6"  | Sandstone | medium grey, micaceous.  |        |       |      |
| 311' 6"       | 315' 0" |                             |            |                    |                    |          | 4' 6"  | Shale     | dark grey, banded = hard and siliceous.  |        |       |      |
| 315' 0"       | 319' 0" |                             |            |                    | 76°                |          | 3' 0"  | Shale     | medium to light grey, banded with felspar spots.                                       |        |       |      |
| 319' 0"       | 321' 3" |                             |            |                    |                    |          | 2' 3"  | Shale     | as above.  |        |       |      |
| 321' 3"       | 325' 3" |                             |            |                    | 42°                |          | 4' 0"  | Volcanics | basic, dark greenish-grey, fine to medium grained, massive.                            |        |       |      |
| 325' 3"       | 330' 6" |                             |            |                    |                    |          | 5' 3"  | Shale     | medium to light grey, banded = hard and siliceous, with felspar spots.                 |        |       |      |
| 330' 6"       | 334' 0" |                             |            |                    | 45°                |          | 3' 6"  | Shale     | medium to light grey, banded = hard and siliceous, signs of folding; no felspar spots. |        |       |      |
| 334' 0"       | 336' 2" |                             |            |                    |                    |          | 2' 2"  | LODE      | Pyrrhotite and Chalcopyrite with minor Sphalerite and Siderite : banded                |        |       |      |
| 336' 2"       | 337' 0" |                             |            |                    |                    |          | 0' 10" | Shale     | medium grey - medium brown, banded = hard and siliceous.                               |        |       |      |

23 019

HOLE No. : C. 37

## GEOLOGICAL LOG

SHEET No. Eleven

FOOTAGE: From 337' 0" To 352' 0".

| DRILL FOOTAGE |          | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            |          | FOOTAGE |       | LITHOLOGY  | DESCRIPTION | ASSAYS |      |  |
|---------------|----------|-----------------------------|------------|--------------------|--------------------|----------|---------|-------|--|-------------|--------|------|--|
| From          | To       | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length  | % Snt |  |             | % Sns  | % Cu |  |
| 337' 0"       | 338' 10" |                             |            |                    |                    |          | 1' 10"  | Shale | dark grey - dark brown, banded = hard and siliceous.                             |             |        |      |  |
|               |          | 337' 6"                     | 1/2"       | 35°                |                    |          |         | Vein: | Quartz - siderite, with Pyrrhotite and Sphalerite - banded.                      |             |        |      |  |
| 338' 10"      | 340' 0"  |                             |            |                    |                    |          | 1' 2"   |       | banded quartzite with Chalcopryrite, Pyrite and minor Sphalerite mineralisation. |             |        |      |  |
| 340' 0"       | 340' 3"  |                             |            |                    |                    |          | 0' 3"   | LODE  | Pyrite, Chalcopryrite and Pyrrhotite - banded.                                   |             |        |      |  |
| 340' 3"       | 341' 0"  |                             |            |                    |                    |          | 0' 9"   | Shale | dark grey, banded = hard and siliceous.  |             |        |      |  |
| 341' 0"       | 343' 0"  |                             |            |                    | 41°                |          | 2' 0"   | LODE  | massive Pyrrhotite and Chalcopryrite - banded.                                   |             |        |      |  |
| 343' 0"       | 346' 0"  |                             |            |                    | 50°                |          | 3' 0"   | LODE  | as above.  |             |        |      |  |
| 346' 0"       | 349' 0"  |                             |            |                    |                    |          | 3' 0"   | LODE  | as above.  |             |        |      |  |
| 349' 0"       | 351' 0"  |                             |            |                    |                    |          | 2' 0"   | LODE  | as above.  |             |        |      |  |
| 351' 0"       | 352' 0"  |                             |            |                    |                    |          | 1' 0"   | Shale | medium grey - medium brown, banded. = hard and siliceous.                        |             |        |      |  |

23 020



HOLE No. : C.37

# GEOLOGICAL LOG

SHEET No. : Thirteen

FOOTAGE: From 406' 0" To 440' 0"

| DRILL FOOTAGE |         | VEIN OR OTHER INTERSECTIONS |            |                    | BEDDING            | FOOTAGE  |        | LITHOLOGY | DESCRIPTION  | ASSAYS |       |      |
|---------------|---------|-----------------------------|------------|--------------------|--------------------|----------|--------|-----------|--|--------|-------|------|
| From          | To      | Depth                       | True Width | Angle to Core Axis | Angle to Core Axis | Recovery | Length |           |  | % Snt  | % Sns | % Cu |
| 406' 0"       | 409' 0" |                             |            |                    |                    |          | 3' 0"  | Shale     | medium brown shale fragments (hard and silicified), and Quartz - Chalcopryrite - Pyrrhotite vein fragments. (recovered core) |        |       |      |
|               |         |                             |            |                    |                    |          |        |           | 2ft. Core lost.  |        |       |      |
| 409' 0"       | 410' 0" |                             |            |                    |                    |          | 1' 0"  | Sandstone | medium grey, micaceous, with shale bands.  |        |       |      |
| 410' 0"       | 412' 0" |                             | 12"        | 45°                |                    |          |        | Vein:     | Quartz with Pyrite and Chalcopryrite and Pyrrhotite.   |        |       |      |
| 412' 0"       | 414' 6" |                             |            |                    |                    |          | 2' 6"  | Shale     | medium to light grey, banded = hard and siliceous with medium grey sandstone bands, and pseudo -breccia textures.            |        |       |      |
|               |         |                             |            |                    | 50°                |          |        |           |  |        |       |      |
| 414' 6"       | 419' 0" |                             |            |                    |                    |          | 4' 6"  | Sandstone | medium grey, micaceous, - contact @ 414'6" makes 50° wdc.  |        |       |      |
|               |         | 415'                        | 1/4"       | 42°                |                    |          |        | Vein:     | Quartz - Chalcopryrite veins with minor Pyrrhotite and carbonates.   |        |       |      |
|               |         |                             | 1/3"       | 15°                |                    |          |        | Vein:     | as above.  |        |       |      |
| 419' 0"       | 428' 0" |                             |            |                    |                    |          | 9' 0"  | Sandstone | medium grey, micaceous.  |        |       |      |
| 428' 0"       | 429' 6" |                             |            |                    | 33°                |          | 1' 6"  | Sandstone | as above, with included shale bands.   |        |       |      |
| 429' 6"       | 440' 0" |                             |            |                    | 53°                |          | 10' 6" | Sandstone | as above " " " "   |        |       |      |

