



#### DIAMOND DRILLING

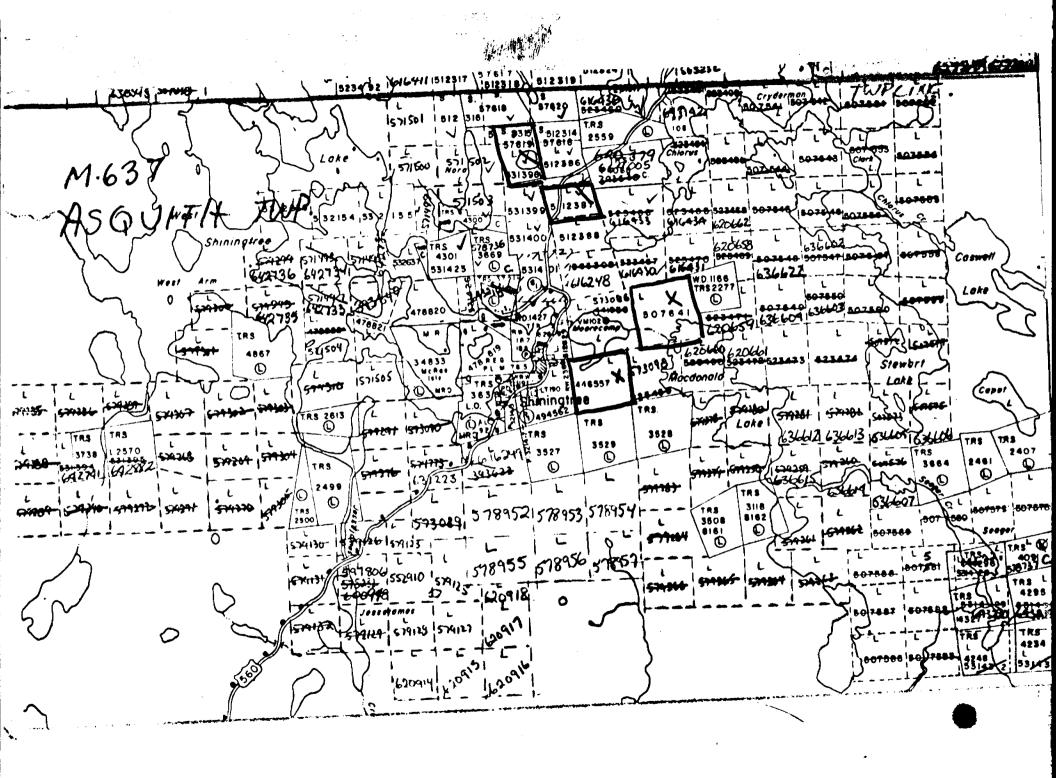
Township: Asquith

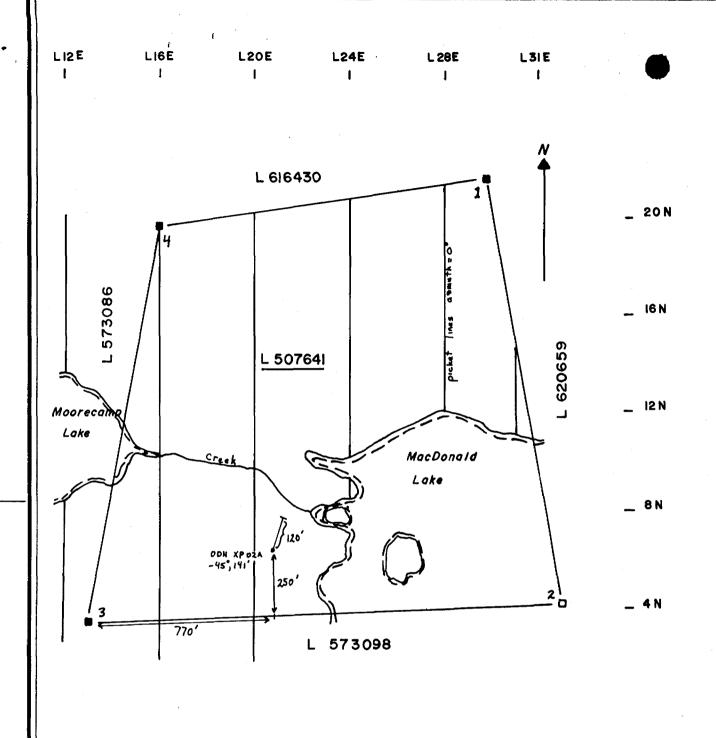
REPORT No.: 23

WORK PERFORMED BY: Timmins Gold Resources Ltd.

| CLAIM No. | HOLE No. | FOOTAGE | DATE    | Note |
|-----------|----------|---------|---------|------|
| L 507641  | XPO2A    | 141.0   | Mar/82  | (1)  |
| L 446557  | XPO3     | 247.0   | Apr/82  | (1)  |
| 2, 11000, | XPO3A    | 110.0   | Apr/82  | (1)  |
|           | XPO4     | 291.0   | Feb/82  | (1)  |
| L 512387  | XPO5     | 254.0   | Apr/82  | (1)  |
|           | XPO8     | 252.0   | May/82  | (1)  |
|           | STA-1    | 258.0   | May/81  | (1)  |
|           | STA-2    | 271.0   | May/81  | (1)  |
| L 512315  | STS-2    | 517.0   | Sept/81 | (1)  |
|           | STI-2    | 156.0   | Mar/81  | (1)  |
|           | 10 ODH   | 2497.   |         |      |

Notes: (1) #390-82





SCALE I" to 400'

Location Sketch
Diamond Drill Hole
XP-02A

Asquitti-Churchill Township, Ont.



# TIMMINS GOLD RESOURCES LTD.

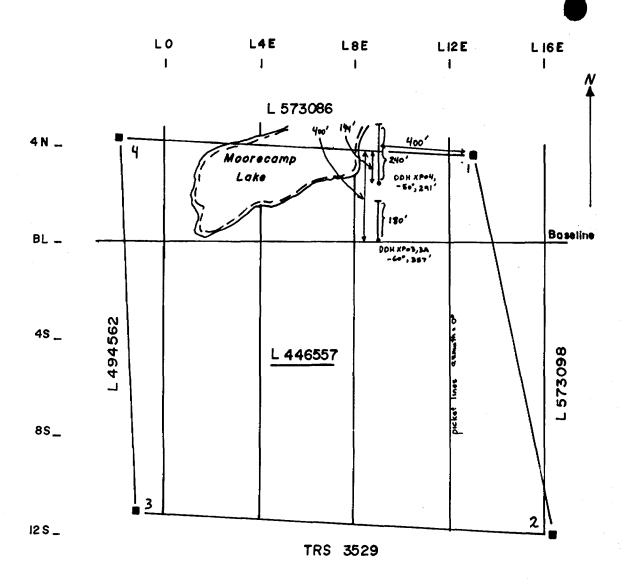
LEVEL HOLE No. XPOZA ELEVATION DIP TEST 020<sup>o</sup> 20+85E, 7+10N SHEET No. 1 of 2 ANGLE LOCATION BEARING FOOTAGE RECORDING CORRECTED 141' LOGGED BY P. Born LENGTH SECTION PURPOSE Exploration 1AX LATITUDE CORE SIZE -450 DEPARTURE Mar 11-13 1082 TOT RECOVERY

|              |      | K GIBSON PROPERTY   | DEPARTU           | IRE           | 45° FII  |        | FINISHED Mar.11-13, 1982 T                       |  |              |  |              | TOT. RECOVERY |         |      |          |
|--------------|------|---|-------------------|---------------|----------|--------|--|--|--------------|--|--------------|---------------|---------|------|----------|
| FOOT         | AGE  |   |                   |               |          | OOTAGE | E  |  |              | ASSAY  | S            |               | ,       | RECO | VERY     |
| FROM         | то   | DESCRIPTION   | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM     | . то   | LENGT  | •  |              |  |              |               |         | RVH  | SHORT    |
| 0            | 5.0  | OVERBURDEN  |                   |               |          |        |  |  |              |  |              |               |         |      |          |
|              |      |   |                   |               |          |        |  |  |              |  |              |               |         |      |          |
| 5.0          | 82.0 | ANDESITE FLOWS  |                   |               |          |        |  |  |              |  |              |               |         |      |          |
|              |      | •   |                   |               | <u> </u> |        | ļ  |  | <u> </u>     | <u> </u>   |              |               |         |      | L        |
| I            |      | F.g. medium to light green colour - massive to slightly schistose                                     |                   |               |          |        | <b> </b>   |  |              |  |              |               |         |      | <b> </b> |
| <b> </b>     |      | andesite flows. Section of pillow breccia and/or pillowed   |                   |               |          |        |  |  |              | <b> </b>   |              |               |         |      |          |
|              |      | andesite flows with epidotized sections, with 1-2% pyrite + minor cpy in places + hematite alteration |                   |               |          |        | <b>}</b>   |  | <u> </u>     | -  |              |               |         |      | <b></b>  |
| <del> </del> |      | Alteration - slightly - chloritized and carbonatized  |                   |               |          |        | <del>                                     </del> | <del>- </del>                                    | ļ            |  | <del> </del> |               |         |      |          |
| i            |      | Fracturing - moderate with qtz veining - 2-3% with some local   |                   |               |          |        |  | <del>- [</del>                                   | ļ ——         |  |              |               |         |      |          |
|              |      | concentrations of 10-30%  |                   |               |          |        |  | <del>-  </del>                                   |              |  |              |               |         |      |          |
|              |      |   |                   |               |          |        |  | 1  |              |  |              |               |         |      |          |
|              |      | @ 5-10' - qtz-cbt veining 10-15% w. minor pyrite - 0° to CA   |                   |               |          |        |  |  |              |  |              |               |         |      |          |
|              |      | <pre>0 5-15 pillowed section - andesite with abundant epidotized</pre>                                |                   |               |          |        |  |  |              |  |              |               |         |      |          |
|              |      | sections + cbt alteration.  |                   |               |          |        |  |  |              |  |              |               |         |      |          |
|              |      |   |                   |               |          |        |  |  |              |  |              |               |         |      |          |
| 1            |      | @ 36-37' extremely brecciated section with qtz-carb. veining  |                   |               |          |        |  |  | L            |  |              |               |         |      |          |
| 1            |      | with no sulphides   |                   |               |          |        | ļ  | _  | <u> </u>     |  |              |               |         |      |          |
|              |      | 0.27.51 2   |                   |               |          |        | <u> </u>   | _  |              |  |              |               |         |      |          |
|              |      | @ 37.5' - 3 cm wide qtz-cbt vein with 2-3% pyrite.  |                   |               |          |        |  |  |              | <del> </del>                                     |              |               |         |      |          |
|              |      | (41-71) Andesite section with well developed pillow rinds,  |                   |               | -        |        | <del>                                     </del> |  | <del> </del> |  |              |               |         |      | -        |
| 1            |      | pillow breccias with some ass. mineralization in  |                   |               |          |        | <del> </del>                                     | <del>- </del>                                    | <del> </del> | <del>                                     </del> |              |               |         | _    |          |
| 1            |      | haloclastite material   |                   |               |          |        | <del>                                     </del> | -  |              |  |              |               |         |      |          |
|              |      | Tid Tod Tab of the Illiand of Tab   |                   |               |          |        | <b></b>  | <del>                                     </del> | 1            | t  |              |               |         |      |          |
|              |      | @ 53' - 3-6% pyrite + 1-2% cpy + cbt (calcite)  |                   |               |          |        |  | 1  |              |  |              |               |         |      |          |
|              |      |   |                   |               |          |        |  | 1  |              |  |              |               |         |      |          |
|              |      | (71-82) Section of f.gm.g. andesite - generally massive wath  |                   |               |          |        |  |  |              |  |              |               |         |      |          |
|              |      | no pillow breccia and 2-3% qtz veining - no sulphides   |                   |               |          |        |  |  |              |  |              |               |         |      |          |
|              |      |   |                   |               |          |        |  |  |              |  |              |               |         |      |          |
|              |      | Lower contact with tuffs sharp, - qty + carb. veining   |                   |               |          |        |  | _  | <b> </b>     |  |              |               |         |      |          |
|              |      | at the contact.   |                   | ·             |          |        | <u> </u>   |  | <b></b>      |  | ļ            | ļ             |         |      | <b> </b> |
|              |      |   |                   |               |          |        | ļ  | <b></b>  | <u> </u>     | ļ  |              | <b> </b>      |         |      |          |
|              |      |   | I                 |               |          |        | 1  | _1   | <u> </u>     | 1  | <u> </u>     | L             | <u></u> |      |          |

HOLE NO.

XPO2A

| FOOT  | AGE  |   |                   |   | FC                                    | OTAGE  |              |              |  | ASSAY  | 'S   |  |                                       | RECO   | VERY   |
|-------|--|---|-------------------|---|---------------------------------------|--|--------------|--------------|--|--|--|--|---------------------------------------|--|--|
| FROM  | то   | DESCRIPTION   | GRADE<br>ESTIMATE |   | PROM                                  | то   | LENGTH       |              |  |  |  |  |                                       | RUN  | SHORT  |
| 82.0  | 112.0  | ANDESITE TUFFS  |                   |   |                                       | <del> </del>                                     |              |              |  |  |  |  |                                       |  |  |
|       |  |   |                   |   |                                       |  |              |              |  |  |  |  |                                       |  |  |
|       |  | Light green colour, moderately bedded, f.g. andesite tuffs,       |                   |   |                                       |  |              |              |  |  |  |  |                                       |  |  |
|       |  | slightly schistose. The tuffs are slightly sheared                |                   |   |                                       |  |              |              |  |  |  |  |                                       |  |  |
|       |  | Alteration - moderately to highly carbonatized and moderately     |                   |   |                                       |  |              |              |  |  |  | <u> </u>   |                                       |  |  |
|       |  | to strongly sericitized throughout entire section                 |                   |   |                                       |  |              |              | <u> </u>   |  |  |  |                                       |  |  |
|       |  | Quartz veining - dk grey qtz - pervassive throughout most of tuff |                   |   |                                       | <u> </u>   | <u> </u>     | ļ            |  |  |  |  |                                       |  |  |
|       |  | section associated with pyrite. Veining at 70-80° to CA.          |                   |   |                                       |  |              |              |  |  |  |  |                                       |  |  |
|       |  | Schistosity - 60° to CA.  |                   | ļ |                                       | ļ  |              | ļ            | ļ  | ļ  | <b>ļ</b>   | ļ  |                                       |  | <u> </u>   |
|       |  | @ 82-87' tuff - coarse tuffs with 5-10% minute gtz-cbt veinlets   |                   |   |                                       | <u> </u>   | <del> </del> |              |  | <u> </u>   |  | ļ <u>.</u>                                       |                                       |  |  |
|       |  |   |                   |   |                                       | ļ  | <del> </del> | <b> </b>     | <del> </del>                                     |  | <del> </del>                                     | <u> </u>   |                                       |  | -  |
|       | ļi   | pervassive throughout section, minor pyrite < 1%                  |                   |   | · · · · · · · · · · · · · · · · · · · |  | -            |              | <del>                                     </del> | -  | <del> </del>                                     | ļ  |                                       | ļ  | <del> </del>                                     |
|       | <del> </del>                                     | @ 92-94' - 40-50% dk-grey gtz veining w.1-3% py - 70 to CA        | <u> </u>          |   | <u> </u>                              | <u> </u>   | <del> </del> | <del> </del> | <del> </del>                                     | <b></b>  | <del> </del>                                     | <del> </del>                                     |                                       |  |  |
|       |  | 6 32-34 - 40-50% dk-drey dtz verning w.1-3% by - 70 to ca         |                   |   |                                       | <del> </del>                                     | <del> </del> | <del> </del> | <u> </u>   | <b></b>  | <u> </u>   | <del> </del>                                     |                                       |  |  |
|       | <del> </del>                                     | @ 95-97' - 20-25% qtz veining + cbt veining with 2% py qtz        | l                 |   |                                       |  | · · · ·      |              |  |  | <del> </del>                                     | <u> </u>   |                                       | <b>!</b>   | <del></del>                                      |
|       |  | veining is barren of sulphides.                                   | <b>!</b>          |   |                                       | <del>                                     </del> | <del> </del> |              | -  | -  | <del>                                     </del> | <del> </del>                                     |                                       |  |  |
|       |  | verning is parren or surprides.                                   |                   |   | <b></b>                               | <del>                                     </del> | 1            | <del> </del> | <del> </del>                                     |  | <del> </del>                                     |  |                                       | <del>                                     </del> | <del></del>                                      |
|       |  | 0 99' - 4" dk grey gtz veining                                    |                   |   |                                       |  |              |              |  |  |  |  |                                       |  |  |
|       |  |   |                   |   |                                       |  | ļ            |              |  |  |  |  |                                       |  |  |
|       |  | @ 101-102 - 40% dk grey quartz veining with 2-3% pyrite present   |                   |   |                                       | <u> </u>   | <u> </u>     |              |  | <u> </u>   | ļ  |  |                                       |  | <u> </u>   |
|       |  | plus abundant sericite.   |                   |   |                                       |  | <u> </u>     | <u> </u>     | ļ  |  | ļ  | ļ  |                                       |  | ļ  |
|       |  |   |                   |   |                                       |  |              | ļ            | ļ  |  |  | ļ  |                                       |  | ļ  |
|       |  | Contact with coarse andesite flows - flow contact (chilled) and   |                   |   |                                       |  | ļ            | <b></b>      |  |  |  |  |                                       |  |  |
|       |  | sharp with fine grained andesite near contact and increasing away | <b>!</b>          |   |                                       | ļ  |              |              |  |  |  | ļ  |                                       |  | <b></b>  |
|       | <u> </u>   | from contact.   | <u> </u>          |   |                                       |  | ļ            |              | ļ  |  |  | <del> </del>                                     | · · · · · · · · · · · · · · · · · · · |  | <u> </u>   |
|       |  | AND SOUTH STOLES  |                   |   |                                       | <u> </u>   |              |              |  |  |  | <del> </del>                                     |                                       |  |  |
| 112.0 | 141.0  | ANDESITE FLOWS  |                   |   |                                       |  | ļ            |              |  |  |  | <u> </u>   |                                       |  | <del> </del>                                     |
|       |  | Generally light to medium green colour, f.gm.g. (nearcontact)     | <b></b>           |   |                                       | <del> </del>                                     |              | <b> </b>     |  |  |  | <del>                                     </del> |                                       |  | <del>                                     </del> |
|       |  | andesite flows, rather homogeneous with few flow features         |                   |   |                                       |  |              |              |  |  | <del> </del>                                     |  |                                       |  | <del></del>                                      |
|       |  | Alteration - slight-chloritization - generally fairly hard        |                   |   |                                       | <del> </del>                                     | <b> </b>     | <b>}</b>     |  |  | <del>                                     </del> | <del> </del>                                     |                                       |  |  |
|       | <del>                                     </del> | Subophitic textures in thicker part of flow - massive qtz veining |                   |   |                                       | <del>                                     </del> |              |              | -  | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     |                                       |  | <del>                                     </del> |
|       |  | 1-2%, trace pyrite.   |                   |   | -                                     | <del> </del>                                     | ļ            | <b>-</b>     |  |  | <del>                                     </del> | <del> </del>                                     |                                       |  |  |
|       | -  | @ 119-121'-10-15% qtz veining, 0-20' to CA minor 1% pyrite        |                   |   |                                       | <del> </del>                                     | <b> </b>     | <b></b>      |  | <del>                                     </del> | <del> </del>                                     |  |                                       |  | <del>                                     </del> |
|       |  | @ 138-140 - 8% qtz veining minor 1% pyrite                        |                   |   | -                                     | <del>                                     </del> | -            |              |  | <u> </u>   |  |  |                                       |  | <b></b>  |
|       |  | e 130-140 - 0% quz verning minor 1% pyrice                        |                   |   |                                       | <b></b>  |              | <del> </del> |  | <del> </del>                                     |  | <del>                                     </del> |                                       |  | <b></b>  |
|       | 141.0  | END OF HOLE   |                   |   |                                       |  |              |              |  |  |  | <del>                                     </del> |                                       |  | <del></del>                                      |
|       | 141.0  | END OF HOLE   |                   |   |                                       |  |              |              |  | <u> </u>   | <u> </u>   | l  | l                                     |  |  |



SCALE I"to 400'

Location Sketch
Diamond Drill Holes
XP-03,3A and XP-04

Asquith Township, Ont.



#### TIMMINS GOLI RESOURCES LT

GIBSON PROPERTY

| _  |      |
|----|------|
| D  | FOOT |
|    | 30   |
| D. |      |
|    |      |

@ 101-106' section with 5-8% qtz veining

|         | DIP TEST  | LEVEL     |            |              |  |  |  |  |  |  |
|---------|-----------|-----------|------------|--------------|--|--|--|--|--|--|
| FOOTAGE | AN        | GLE       | LOCATION L | 9+00E, 0+00N |  |  |  |  |  |  |
| 300     | RECORDING | CORRECTED | SECTION    |              |  |  |  |  |  |  |
|         | 02        |           | LATITUDE   |              |  |  |  |  |  |  |
|         |           |           | DEPARTURE  | -60°         |  |  |  |  |  |  |

| ELEVATION               | HOLE No. XPO3, 3A   |
|-------------------------|---------------------|
| BEARING 00              | SHEET No. 1 of 5    |
| LENGTH 247+110 = 357'   | LOGGED BY P. Born   |
| CORE SIZE IAX           | PURPOSE Exploration |
| FINISHED April 29, 1982 | TOT. RECOVERY       |

**FOOTAGE** FOOTAGE **ASSAYS** RECOVERY SAMPLE GRADE DESCRIPTION TO NO. ESTIMATE LENGTH SHORT 0 22.0 OVERBURDEN ANDESITE FLOWS 22.0 192.0 F.g. light to med green colours - section of andesite-massive to slightly schistose. Generally inhomogeneous with epidotized flow tops, flow-contacts, chills and other flow features. Minor pillows present and minor interflow sediments-schistose composition - slightly feldspathic andesite with 10% plagioclase phenocrysts locally evident. Flows generally 1-2' thick. Alteration - slightly-chloritization with little or no carbonitization in the andesite. Locally sericitized + epidotized sections flow tops probably Sulphides - generally minor 1% or less pyrite locally up to 3-5% pyrite Otz veining - 2-3% at 60-70° to CA Schistosity at 50-60° to CA @ 23-26' andesite with 3-5% pyrite 1-2' thick flows inhomogeneous andesite with flow (22-96)tops etc. @ 95-96 - andesite with 2-5% rextel pyrite (96-103) Section of homogeneous f.g.-m.g. andesite - probably a thick flow with coarser inner parts. f.g. light to medium green coloured andesite flows, (103-123) chloritized and fairly homogeneous with 2-3% quartz veining and 1-3% local pyrite

SHEET NO.

2 of 5

HOLE NO.

XP03

| F001   | AGE |  |                   |               | FC           | OTAGE  |  |  |     | ASSAY                                  | 'S   |  |   | RECOVERY   |              |
|--|-----|--|-------------------|---------------|--------------|--|--|--|-----|--|--|--|---|--|--------------|
| FROM   | то  | DESCRIPTION  | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM         | . то   | LENGTH   |  |     |  |  |  |   | AUN  | SHORT        |
|  |     |  |                   |               |              |  | ļ  |  |     | ·                                      |  |  |   | <u> </u>   |              |
| <u> </u>   | ļ   | (123-142) Andesite flows lt. green colour, fine grained with       |                   |               |              |  | <del>                                     </del> |  | - 1 |  |  | <u> </u>   |   | <b>!</b>   |              |
|  |     | epidote + carbonate alteration very common - also                  |                   |               |              | <u> </u>   | <del> </del> -                                   |  |     |  | ļ  | ļ  |   | <b>_</b>   | ↓—           |
| <del>                                     </del> |     | possibly somewhat sheared section with epidote + cbt.              |                   |               |              | <b></b>  | <del> </del>                                     |  |     |  | <u> </u>   | <u> </u>   |   | <b> </b>   |              |
|  |     | Hematite present in qtz vein material - 2-5%                       |                   |               | <u> </u>     | <del> </del>                                     |  |  |     | ····                                   | <del> </del>                                     | <del> </del>                                     | ļ | <u> </u>   |              |
| <del></del>                                      |     | @ 131-141' section of sheared andesite - schistose +               |                   |               | -            |  | <del>                                     </del> | <b></b>  |     |  |  |  |   | <b></b>  | +            |
| <u> </u>   |     | sheared - epidote + carbonate alterarion + 1% pyrite.              |                   |               | <b></b>      | ļ  | <del> </del>                                     |  |     |  |  | ļ. <u>.</u>                                      |   | <del>                                     </del> | +            |
| <del> </del>                                     |     | Sheared - epidote + carbonate afterarion + 1% pyrite.              |                   |               | <del> </del> |  | <del> </del>                                     |  |     |  |  | <del> </del>                                     |   | <del>                                     </del> | +            |
| <del></del>                                      | -   | (142-192) Andesite flows - light green, f.g. rather homogeneous    |                   |               | <u> </u>     | <del> </del>                                     | <del> </del>                                     | <del></del>                                      |     |  | <u> </u>   | <del> </del>                                     |   | <del>                                     </del> | +            |
| <del>                                     </del> |     | similar to 103-123' some minor flow features, some                 |                   |               |              | <u> </u>   |  | 1  | . 1 |  | <del> </del>                                     | <del>                                     </del> |   | <del>                                     </del> | +            |
| <del>                                     </del> |     | flow contacts etc. Qtz veining - 2-3% with trace                   |                   |               | <u> </u>     |  |  |  |     |  |  | 1  |   | 1  | +            |
|  |     | pyrite at 50-60% to CA. Nature of andesite flows -                 |                   |               | ·            |  |  |  |     | ·                                      |  | <del>                                     </del> |   | 1  | +            |
|  |     | slightly schistose. Alteration - slightly chloritized              |                   |               |              |  |  |  |     |  | <b>†</b>   | 1  |   |  | 1            |
|  |     | with little or no carbonate.                                       | <u> </u>          |               |              |  |  |  |     | ······································ |  |  |   | 1  | 1            |
|  |     |  |                   |               |              |  |  |  |     |  |  | 1  |   | 1  |              |
|  |     | @ 185-187' andesite with minute cbt veinlets + hematite.           |                   |               |              |  |  |  |     |  | 1  |  |   |  |              |
|  |     |  |                   |               |              |  |  |  |     |  |  |  |   |  |              |
|  |     | Contact with underlying tuffs rather gradational, not              |                   |               |              |  |  |  |     |  |  |  |   |  |              |
|  |     | very sharp.  |                   |               | <u> </u>     |  | <u> </u>   |  |     |  |  |  |   |  |              |
|  |     |  |                   |               |              |  |  |  |     |  |  |  |   |  |              |
| 192.0  | 247 | ANDESITE TUFFS   |                   |               |              | <u> </u>   | ļ <u>.</u>                                       |  |     |  | <u> </u>   |  |   |  |              |
| <u></u>  |     |  |                   |               |              | ļ  | ļ  | <u> </u>   |     |  |  | ļ  |   |  |              |
|  |     | Mainly tuffs - andesite to dacite composition, moderately bedded   |                   |               |              | <u> </u>   |  |  |     |  | ļ  | <b> </b>   |   | <u> </u>   | +-           |
|  |     | - five scale (mm scale) light green colour with alternating beds - |                   |               |              |  |  |  |     |  |  | <b></b>  |   |  | ┼            |
|  |     | 45-60° to CA   |                   |               |              |  |  |  |     |  |  | <b>├</b>   |   | ļ  | +-           |
|  |     | Alteration - moderate to strong carbonate + sericite - fairly      |                   |               |              | 1  |  |  |     |  |  | <del> </del>                                     |   | ļ  | <del> </del> |
| <u>_</u>   |     | soft rock  |                   |               |              | <b></b>  | <del>                                     </del> |  |     |  | <del> </del>                                     | <del>                                     </del> |   | <del> </del>                                     | +            |
|  | ļ   | Sulphides 1-2% pyrite throughout                                   |                   |               |              |  | <del> </del>                                     |  |     |  | <del>                                     </del> | <del> </del>                                     |   | <del> </del>                                     | +            |
| <b></b>  |     | Surprinces 1-2% pyrice cin oughout                                 |                   |               |              |  | 1  | <del> </del>                                     |     | <del></del> -                          | <del> </del>                                     | <b>.</b>   |   | <b></b>  | +            |
|  |     | Some sections exhibit minor lapilli of 3-6%coarselapille fragments |                   |               |              |  |  |  |     |  |  | <del> </del>                                     |   | <del>                                     </del> | +            |
| }  | -   | Dark grey quartz veins are fairly common throughout section with   |                   |               |              | <del>                                     </del> |  | <del>                                     </del> |     |  | <del>                                     </del> | <del>                                     </del> |   | 1 -  | +            |
| <del>                                     </del> |     | up to 40-50% vein material over 1-2' with minor py.                |                   | _             |              |  |  |  |     |  | <del>                                     </del> | <del> </del>                                     |   | 1  | +            |
| <del></del>                                      |     | up to 10 gon tem material ofter I E With miller pys                |                   |               |              |  | <b> </b>   |  |     |  | <del>                                     </del> |  |   |  | 1            |
|  |     | Tuffs are generally schistose and fractured - probably somewhat    |                   |               |              |  |  |  |     |  | <del> </del>                                     | <del>                                     </del> |   | <del>                                     </del> | <del> </del> |
|  |     | sheared with associated sericite alteration.                       |                   |               |              |  |  |  |     |  | <b></b>  | <b>—</b> —                                       |   |  | <b>†</b>     |
|  |     |  |                   |               |              |  |  |  |     |  | <b> </b>   | 1  |   |  | 1            |
|  |     |  |                   |               |              | ***************************************          |  |  |     | <u></u>                                |  |  |   |  | 1            |

|          |  |   |  |               | SHEET  | NO.  | 3 о  | f 5  |  |  | HOLE   | 10.  | XP03           |   |  |
|----------|--|---|--|---------------|--|--|--|--|--|--|--|--|----------------|---|--|
| F001     | TAGE   |   |  | 54454.5       | F  | OOTAGE   |  |  | <u> </u>   | ASSAY  | <b>/</b> \$                                      |  |                | RECO  | OVERY  |
| FROM     | то   | DESCRIPTION   | GRADE<br>ESTIMATE                                | SAMPLE<br>NO. | FROM   | ТО   | LENGTH   |  |  |  |  |  |                | RUN   | SHORT  |
|          |  | @ 200-204' - 35% dark grey qtz veins 60-70' to CA with associated                                     | 1  |               |  |  |  |  | † · · · ·  |  | <del>                                     </del> | <del>                                     </del> |                | <del>                                     </del>  | <del>                                     </del> |
|          |  | sericite alteration in vein material + minor pyrite   |  |               |  |  |  |  |  |  |  |  |                |   |  |
| <u> </u> | ļ  |   | ļ  | <b>]</b>      | <b></b>  | ļ  | <u> </u>   |  |  |  | Ţ <u></u>  |  |                |   |  |
| <b></b>  | <del> </del>                                     | @ 192-204' - sequence of finely bedded andesite tuffs   | <b>}</b>   | 1             | <u> </u>   | <u> </u>   | <b></b>  | ļ  | <b>_</b>   | 1  |  |  | _              | <del>-</del>                                      | <del> </del>                                     |
| <u> </u> | <del> </del>                                     | (204-217) Rather massive, slightly bedded homogeneous tuff unit-                                      | <del> </del>                                     | <u> </u>      | <b> </b>   | <del> </del>                                     | ┼  | <u> </u>   | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <u> </u>       | <u> </u>  | <del> </del>                                     |
| <b> </b> |  | chloritized and carbonated - could be an ash flow unit  | <del> </del>                                     | <del> </del>  | <del></del>                                      | <del> </del>                                     | <del> </del>                                     |  | <del> </del>                                     | <del>                                     </del> | +  | <del>                                     </del> | <del>-</del>   | <del>-</del>                                      | <del> </del>                                     |
| 1        |  | with 1-2% py in host rock with 3-4% qtz veining in  | <del>                                     </del> | <b> </b>      | <b></b>  | <del>                                     </del> | <del> </del>                                     |  | <del> </del>                                     | <del>                                     </del> | 1  | <del> </del>                                     | <del></del>    | <del>                                     </del>  | <del> </del>                                     |
|          | <del> </del>                                     | section with 3-5% associated pyrite.  | <del>                                     </del> |               | <del>                                     </del> |  | 1  |  | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     |                | <del>                                     </del>  | <del> </del>                                     |
|          |  |   |  |               | -  |  |  |  |  | 1  |  |  |                |   | 1  |
|          |  | (217-219.5) Sericitized tuff with 20% lapilli fragments - flattened.                                  |  |               |  |  |  |  |  |  |  |  |                |   |  |
|          |  | Dacite-andesite composition with carbonatized +   | <u> </u>   |               | <u></u>  |  |  |  |  |  |  |  |                |   |  |
|          | 1  | sericitized with 10% minute, dark grey qtz veins.   | <u> </u>   | ļ             | <b> </b>   | ļ  | <u> </u>   | <u> </u>   | ļ  | <b> </b>   | <u> </u>   | <u> </u>   |                |   | <u> </u>   |
|          | <u> </u>   | 219.5-224) Rather massive tuff unit - homogeneous with little   | <u> </u>   | <b>!</b>      | <u> </u>   | -  | -  | <u> </u>   | <del> </del>                                     | 1  | <del>                                     </del> | -  | <b></b>        | <b>↓</b>  | <u> </u>   |
|          | <del> </del>                                     | or no bedding with 1-2% pyrite - lt green colour - f.g.   | -  | ļ             |  | <del> </del>                                     | ┼  |  | <b>+</b> -                                       | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     |                |   |  |
| <b> </b> | <del> </del>                                     | @ 222-223.5 - 30% dark grey qtz veins with local 8%   | <del> </del>                                     |               |  | <del> </del>                                     | +  | <del> </del>                                     | <del>∤</del>                                     | <del>                                     </del> | <b>-</b>   | ┼  | <del>-{</del>  | <del>                                      </del> | <del> </del> -                                   |
| <b>!</b> | +  | pyrite - anastomosing type veining.   | <del>                                     </del> |               | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <b>†</b>   | †  | +  | <del>                                     </del> |                | <del> </del>                                      | <del> </del>                                     |
| -        | <del>                                     </del> | pyriod directioning ope verning.  | <del>                                     </del> | 1             | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     |  | <del>†</del>                                     | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | 1              | <del>                                     </del>  |  |
| 1        | <del>                                     </del> | (224-247) Sequence of finely bedded tuffs - light green-grey  |  | 1             |  |  | <b>†</b>   |  |  |  | 1  | 1  | <del>-  </del> |   |  |
|          |  | colour, f.g. dacite-andesite composition with extensive   |  |               |  |  |  |  |  | Ì  | 1  |  |                |   |  |
|          |  | sericite in places with moderate to strong carbonati-   |  |               |  |  |  |  |  |  |  |  |                |   |  |
|          |  | zation - 10-15% - soft rock with minor chlorite.  |  |               |  | <u> </u>   | <b>↓</b>   |  |  |  |  |  |                |   |  |
|          | ļ  | 0.000 5.000 0.000   | <u> </u>   | <u> </u>      | ļ  | ļ  | <u> </u>   | ļ  | <del> </del>                                     | <u> </u>   | L  | <b>!</b>   |                | <b>!</b>  | <b></b>  |
|          | <u> </u>   | @ 226.5-229.0 - 10-30% dark grey quartz veining in this   | <b> </b>   | <b>}</b>      | <b> </b>   | <del> </del>                                     | <del> </del>                                     | <b> </b>   | <del> </del>                                     | ļ  | <b></b>  | <del></del>                                      | <b>-</b>       |   | <u> </u>   |
| 1        | <u> </u>   | section. Extensive sericite, also present with 2-3% pyrite - qtz veining pervassive throughout entire | <del> </del> -                                   | <b>!</b>      | <del> </del>                                     | <u> </u>   | <del> </del>                                     | <del></del>                                      | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del> </del>   | <b>}</b>  | <del> </del>                                     |
|          |  | section - anartomosing.   | <del>                                     </del> | <b>!</b>      |  | <del> </del>                                     | <del>                                     </del> |  | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del> </del>   | <del> </del>                                      | <del> </del>                                     |
| -        |  | Section - anarcomosing.   | <del>                                     </del> |               |  | <u> </u>   | <del> </del>                                     |  | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     |  |                | <del>                                     </del>  | $\vdash$   |
|          |  | @ 230-237.0 - similar to above - anastomosing dark  |  |               |  | 1  |  |  |  |  |  |  |                |   | <b></b>  |
|          |  | quartz veins with some pyrite + strong sericitation +   |  |               |  |  |  |  |  |  |  |  |                |   |  |
|          |  | minor (trace) chalcopyrite 232.6'.  |  |               |  |  |  |  |  |  |  |  |                |   |  |
| -        |  | Fairly moderately bedded section of alternating tuffs   |  |               | <u> </u>   |  |  |  |  |  |  |  |                |   |  |
|          |  | - altered-qtz + sericite. Bedding - 50-60° to CA  | ļ  |               |  | ļ  |  |  | <b> </b>   | <u> </u>   | <u> </u>   | <u> </u>   |                |   |  |
| <b></b>  | <b></b>  | plus some dark quartz veining in rest of section.   |  | ļ             | ļ  | L  | ļ  | <b> </b> -                                       | <del> </del>                                     | ļ  | <u> </u>   | <del> </del>                                     |                |   |  |
| <u> </u> | <del>                                     </del> | 6 220 2 220 El eta mainina 700 to CA  | ļ  | <b> </b>      | <u> </u>   | <del> </del>                                     | <del>                                     </del> | <u> </u>   | <del> </del>                                     | ļ  |  |  |                |   | <u> </u>   |
|          |  | @ 239.2-239.5' - qtz-veining 70° to CA  | <b> </b>   |               | <b> </b>   | <del> </del>                                     |  |  | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |                | F   |  |
| <u> </u> | 1  |   | ł  | I             | <u> </u>   |  |  | L  | <u> </u>   | Ь  | <u> </u>   | <u> </u>   | <u> </u>       | لـــــــــــــــــــــــــــــــــــــ            |  |

|  |  |   |  |               | SHEET  | NO.  | 4 o  | f 5  |  |  | HOLE   | 10.  | XP03A        |  |  |
|--|--|---|--|---------------|--|--|--|--|--|--|--|--|--------------|--|--|
| F001   | rAGE   |   |  |               |  | OOTAGE   |  |  |  | ASSAY  | rs   | <del></del>                                      |              | REC  | OVERY  |
| FROM   | то   | DESCRIPTION   | GRADE<br>ESTIMATE                                | SAMPLE<br>NO. | FROM   | 70   | LENGTH   |  |  | ·  |  |  |              | RUN  | SHOR   |
|  |  | @ 240.9-241.3 - qtz veining   |  |               |  |  |  |  |  |  |  |  |              |  | T  |
|  |  | @ 244-245' - 5-8% qtz-veining with 2-3% sericitized tuff            |  |               |  |  |  |  |  |  |  |  |              | 1  |  |
|  |  | @ 245-247' - moderately_bedded_tuff with 2-3% pyrite                |  |               |  |  |  |  |  |  |  |  |              |  | <u> </u>   |
|  | <u> </u>   | bedding/schistosely 70° to CA                                       |  |               |  |  |  | <u> </u>   | <u> </u>   |  |  |  |              |  |  |
|  | ļ  |   | <u> </u>   |               |  | <u> </u>   | ļ  |  | <u> </u>   | ļ  | <u> </u>   | ļ  |              |  | <u> </u>   |
| <u> </u>   | ļ  | (247.0) End of hole - caving had to stop hole. Wedge from           |  |               |  | <del> </del>                                     | ļ  | ļ  | <u> </u>   |  |  |  |              |  | ↓  |
|  | ļ  | 225' - DDH - XPO3A continues  |  |               | ļ  | ļ  |  | <u> </u>   | <u> </u>   |  | ļ  | ļ  |              | <b>!</b>   | <u> </u>   |
| <u> </u>   |  | NNI VNO2Adead from 20EL of VNO2                                     | <b></b>  |               | <u> </u>   | <b>_</b>   | ļ  | <del> </del>                                     | <del> </del> -                                   | <del> </del>                                     | ļ  |  |              | <b>.</b>   | <u> </u>   |
|  | 1  | DDH XPO3A wedged from 325' of XPO3                                  | <u> </u>   | <b></b>       |  | ļ  | ļ  | <del> </del>                                     | 1  |  | ļ  | ļ  |              |  | <del> </del>                                     |
|  | 325  | DNU VDO2 coo provious logs for details                              | <u> </u>   |               | <b> </b>   | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | ╄  | <b>-</b>   | ļ  | 1  | ļ            | ļ  | <del></del>                                      |
|  | 223  | DDH XPO3, see previous logs for details                             |  | <b>}</b>      | <del> </del>                                     | <del> </del>                                     | -  | <b> </b>   | ļ  | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <u> </u>     | <del> </del>                                     | <del> </del>                                     |
| 22E 0  | 247  | ANDESITE TUFFS  |  |               | <u> </u>   | <del> </del>                                     | <del> </del>                                     | ├  | <del> </del>                                     |  | <u> </u>   | <del> </del>                                     |              | <del> </del>                                     | <b>├</b> ──                                      |
| 223.0  | 247.0  | ANDESTIE TOFFS  | <b>!</b>   | <b>!</b>      | <del> </del>                                     | -  | <del> </del>                                     | <del> </del>                                     |              | <u> </u>   | <del>↓</del> —                                   |
|  | -  | Fine grained, light grey-green colour tuffs - andesite to dacite    | <b>!</b>   |               | ╂  | <del> </del>                                     | <del>                                     </del> | ├──  |  | <del> </del>                                     | <del>-</del> }                                   | - <del> </del>                                   |              | -  | <del> </del>                                     |
|  | <del> </del>                                     | composition. Moderately bedded - mm-scale bedding at 70° to CA      | <del></del>                                      |               | <del> </del>                                     | +  | <del> </del>                                     | <del> </del>                                     | +  | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     |              | <del></del>                                      | ┼  |
|  | <del>                                     </del> | also sheared.   |  | 1             | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | +  | <del> </del>                                     | -  | +  | 1            | +  | +  |
| <del>                                     </del> | <del>                                     </del> | uiso shearea.   |  | <del> </del>  | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | +  | -  | <del></del>                                      | -  | <del> </del> | ·  | +  |
| <del></del>                                      | <del> </del>                                     | Alteration - moderate to strong carbonatization + sericitization    | <del> </del>                                     | -             | <del> </del>                                     | +  | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | +  |              | <del></del>                                      | +  |
| <del></del>                                      | <del> </del>                                     | generally a soft rock.  | <b> </b>   | <del> </del>  | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     |  | +  | +  | <del>                                     </del> | +  |              | <del>                                     </del> | <del> </del>                                     |
| <b></b>  | <del> </del>                                     | generally a solutions   | <del>                                     </del> |               |  | 1  | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> |              | ╂───   | +-   |
| <b>-</b>   | <del>                                     </del> | Veining - 10% quartz veining - dark grey colour + 2-5% dark + light |  |               | <del>                                     </del> | <del>                                     </del> | 1  | <u> </u>   | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | +  | <b> </b>     | 1  | <del>                                     </del> |
|  |  | carbonate veining with 1-3% pyrite Sulphides - 1-3% pyrite          | l  | <u> </u>      | <u> </u>   | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | 1  | <u> </u>   | <del> </del>                                     | 1            | <del>                                     </del> | <del>                                     </del> |
| -  | <del> </del>                                     | throughout.   |  |               | <u> </u>   | <b>†</b>   | t  | <del> </del>                                     | <del>                                     </del> | 1  |  | †  |              | <del> </del>                                     | <del> </del>                                     |
| $\vdash$   | 1  | Structure - somewhat fractured section of tuffs.                    |  |               |  | <b>†</b>   |  | <b> </b>   |  | <b>†</b>   |  | 1  |              |  | <del>                                     </del> |
|  |  |   |  |               |  | <b>†</b>   | <u> </u>   | 1  | 1  | 1  |  | 1  |              |  |  |
| -  |  | @ 225-228 - broken core, blocky section.                            |  |               | 1  |  |  |  |  |  |  | 1  |              | 1  |  |
|  |  |   |  |               |  |  |  |  |  |  | 1  |  |              |  |  |
|  |  | @ 234-239 - 25-30% dark grey quartz veins at 60° to CA, some        |  |               |  |  |  |  |  |  |  |  |              |  |  |
|  |  | minor pyrite in veining.  |  |               |  |  |  |  |  |  |  |  |              |  |  |
|  |  |   |  |               |  |  | <u> </u>   |  |  |  |  | 1  |              |  |  |
| 247.9  | 2510   | RHYOLITE  |  |               |  |  |  |  |  |  |  |  |              |  |  |
|  |  |   |  |               |  |  |  |  |  |  |  |  |              |  |  |
|  |  | F.g. light yellow green coloured rhyolite with a sugary texture     |  |               |  |  |  |  |  |  |  |  |              |  |  |
|  |  | and slight coincoidal fractures. Hard rock-little alteration which  |  |               |  |  | <u> </u>   |  |  |  |  |  |              |  |  |
|  |  | is sericite not carbonatized. Fairly massive probably flows         |  |               |  | L  | <u> </u>   |  |  |  |  |  |              |  |  |
|  |  | schistose but some 10-20% tiny feldspar microlites but no qtz       |  |               |  |  |  |  |  |  |  |  |              |  | <u> </u>   |
|  |  | eyes in this very siliceous groundmass. Unit massive with several   |  |               |  |  | <b>)</b>   | 1  |  | L  |  |  | 1            |  | 1  |

SHEET NO. 5 0

5 of 5

HOLE NO.

XPO3A

| FOOT  | AGE   |   |                   |               | F    | OOTAGE | ,      |   |   | ASSAY | 'S |     |     | REC | OVERY  |
|-------|-------|---|-------------------|---------------|------|--------|--------|---|---|-------|----|-----|-----|-----|--|
| FROM  | то    | DESCRIPTION   | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM | To     | LENGTH |   |   |       |    |     | -   | RUN | SHORT  |
|       |       | chlorite veins and white quartz veins, crosscutting it. The upper   |                   |               |      |        |        |   |   |       |    |     |     |     | <del>                                     </del> |
|       |       | and lower contact is sharp with both bounded by qtz-veins.          |                   |               |      |        |        | · |   |       |    |     |     |     |  |
|       |       | Sulphides - 1-2% pyrite throughout.                                 |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       |   |                   |               |      |        |        |   |   |       |    |     |     |     |  |
| 251.0 | 253.3 | QUARTZ VEIN   |                   |               |      |        |        |   |   |       |    | T   |     |     |  |
|       |       |   |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | Quartz vein, medium to light grey colour, fractured with minor      |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | chlorite veinlets + 1-3% pyrite + some sericite alteration.         |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | Slightly sheared at the lower contact about 60° to CA.              |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       |   |                   |               |      |        |        |   |   |       |    |     |     |     |  |
| 253.3 | 307.7 | ANDESITE - pillowed flows   |                   |               |      |        |        |   |   |       |    | -   |     |     |  |
|       |       | Fine-grained, light to medium green coloured andesite - pillowed    | ·                 |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | flows, slightly schistose, inhomogeneous                            |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | Alteration-moderate chlorite but strongly carbonatized              |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | Also minor interflow - sediments                                    |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | Quartz veining - 2-6% at 40 to 60° to CA                            |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | Generally < 1% sulphides - pyrite                                   |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       |   |                   |               |      | İ      | İ      |   | I |       |    |     |     |     |  |
|       |       | @ 270-275' cbt andesite with 20% gtz-cbt veining                    |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | <ul> <li>a particularly fractured section of andesite</li> </ul>    |                   |               | L    |        |        |   |   |       |    |     |     |     |  |
| 7     |       |   |                   |               |      |        |        |   |   |       |    | Ì   |     |     |  |
| 307.0 | 318.0 | TUFFS   |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       |   |                   |               |      |        |        |   |   |       | }  |     |     |     |  |
| -     |       | Light green-grey colour, well bedded - mm-scale - 70° to CA         |                   |               |      |        |        |   |   |       |    | Ī   |     |     |  |
|       |       | fine grained, andesite - dacite composition                         |                   |               |      |        |        |   |   |       |    | 1   |     |     |  |
|       |       | Alteration-strongly carbonatized + sericitized + variable chlorite  |                   |               |      |        |        |   |   |       |    |     |     |     |  |
| - 1   |       | Sulphides - remobilized pyrite along schistosity up to 5-10% over   |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | 2-3% (local)  |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | Veining - predominately dark carbonate + also dark grey quartz      |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | veins - about 20% over entire section 40% locally over a 1' section |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       |   |                   |               |      |        |        |   |   |       |    |     |     |     |  |
| 318.0 | 335.0 | ANDESITE  |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       | I     | ·   |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | Light to medium green fine-grained andesite flows                   |                   |               |      |        |        |   |   |       |    |     |     |     |  |
|       |       | Strongly carbonatized and slightly schistose                        |                   |               |      |        |        |   |   |       |    | 1   |     | Ī   |  |
|       |       | Veining - 2-5% qtz veining throughout section especially @          |                   |               |      |        |        |   |   |       |    | T T |     |     | F  |
|       |       | 321-326 - 20% vein material (qtz) sulphides - 1% pyrite throughout  |                   |               |      |        |        |   |   |       |    | T   |     |     |  |
|       | 335.0 | END OF HOLF   |                   |               |      | I      |        |   |   |       |    | Ī   | · · | T   |  |

1 446557

### TIMMINS GOLD RESOURCES LTD.

GIBSON PROPERTY

|         |           |           |                        |                        | <u> </u>            |
|---------|-----------|-----------|------------------------|------------------------|---------------------|
|         | DIP TEST  |           | LEVEL                  | ELEVATION ·            | HOLE No. XPO4       |
| FOOTAGE | AN        | GLE       | LOCATION L9+00E, 2+30N | BEARING 00             | SHEET No. 1 of 4    |
|         | RECORDING | CORRECTED | SECTION                | LENGTH 291'            | LOGGED BY P. Born   |
|         |           |           | LATITUDE               | CORE SIZE IAX          | PURPOSE Exploration |
|         |           |           | DEPARTURE -500         | FINISHED Feb. 14, 1092 | TOT. RECOVERY       |

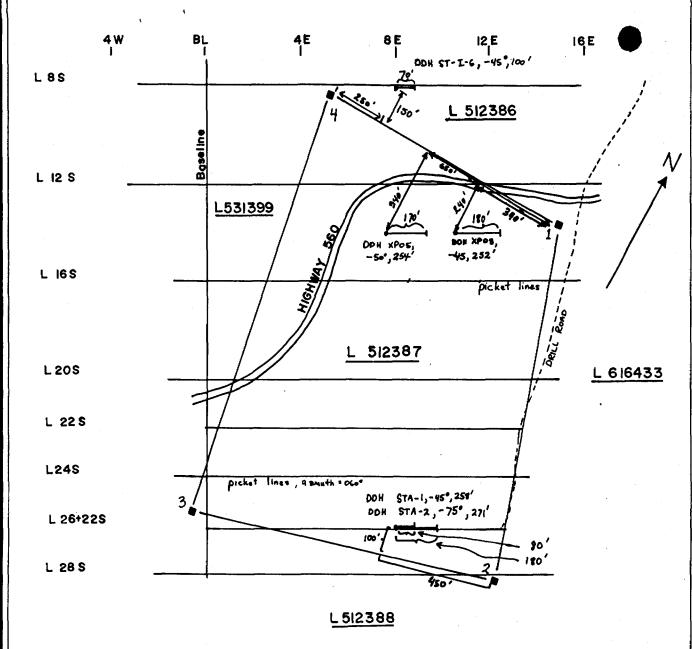
| F001         | AGE   |  |                   |               |          | OOTAG    | E            |              |          | ASSAY:      | S        |            | ·           | RECO     | OVERY        |
|--------------|-------|--|-------------------|---------------|----------|----------|--------------|--------------|----------|-------------|----------|------------|-------------|----------|--------------|
| FROM         | то    | DESCRIPTION  | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM     | то       | LENGTH       |              |          |             |          |            |             | RUN      | SHORT        |
| 0            | 3.0   | Overburden   |                   |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       |  |                   |               |          |          |              |              |          |             |          |            |             |          |              |
| 3.0          | 141.0 | Andesite Flows   |                   |               |          |          |              |              |          |             | ļ        |            |             |          | <u>-</u>     |
| <del> </del> |       | (5-42) Pillowed Andesite Flows   |                   | <b></b>       | <u> </u> |          | ļ <u> </u>   |              |          |             |          |            |             | i        | ļ            |
|              |       |  |                   |               |          |          |              | ļ            |          | ļ           |          |            |             |          |              |
| <u>}</u> ——  |       | f.g. light green coloured andesite slightly schistose to<br>massive nature with fairlywell developed pillow flows- |                   |               |          |          |              | ļ            |          | ļ           |          |            |             |          | <del> </del> |
|              |       | rather distinct with minor pillow breccia. Rather  |                   |               |          |          | <b> </b>     |              | <u> </u> |             |          |            |             |          |              |
|              |       | inhomogeneous unit with distinct pillow-rinds and  |                   |               |          |          |              | <u> </u>     |          |             |          |            |             |          |              |
| I            |       | epidotized rinds, pillow cores and interstitial  |                   |               |          |          | -            |              |          |             |          |            |             |          |              |
|              |       | haboclastite material between pillows.   |                   |               |          |          | <del> </del> | <b> </b>     |          | -           |          |            |             |          |              |
|              |       | nabociastite material between prilows.   |                   |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       | Alteration - slight chloritization + variable sericite +   |                   |               |          |          |              |              | -        |             |          |            |             |          |              |
|              |       | minor carbonate - a fairly hard rock.  |                   |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       |  |                   |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       | Fracturing - not very common with 1-2% carbonate veinlet   | 5                 |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       | + several major qtz veins.   |                   |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       |  |                   |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       | Sulphides - 1-2% pyrite throughout, especially in the  |                   |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       | sericitizated sections.  |                   |               |          |          |              |              |          | _           |          |            |             |          |              |
|              |       |  | -                 |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       | 0 14.0-14.5' - qtz vein - 55° to CA - no sulphides   |                   |               |          |          |              |              |          |             |          |            |             |          |              |
|              |       | 0 17.5-19.0' - qtz veins - less than 1% pyrite -   |                   |               |          |          |              |              |          |             |          |            |             |          | <u> </u>     |
|              |       | 60° to CA  |                   |               |          |          | <b> </b>     |              |          | <b>!</b>    |          |            |             |          |              |
|              |       | @ 41-42.0 - somewhat carbonated + veined contact zone  |                   |               |          |          |              | · ·          |          |             |          |            |             |          |              |
|              |       | with massive flow unit.  |                   |               |          |          |              |              |          | ļ           |          |            |             |          |              |
|              |       | (40, 00, 0) Wassing and acids (1)  |                   |               | ļ        |          |              |              |          |             |          |            |             |          |              |
| ]            |       | (42-99.0) Massive andesite flow  |                   |               | ļ        |          |              | <b> </b>     |          |             | ļ        | <u> </u>   |             |          | ļ            |
|              |       | Generally a fairly homogeneous section of light - to   |                   |               | <u> </u> |          |              | <b>_</b>     |          |             |          | <b> </b> - |             |          | <u> </u>     |
|              |       | med. green fine grained andesite flows - slightly  |                   |               |          |          |              |              | -        | ļ.——        |          |            |             |          |              |
| -            |       | carbonated and chlorotized with minor + more significant   | <u> </u>          | <b></b>       |          | <u> </u> | <del> </del> | <del> </del> | <b></b>  | <del></del> |          |            |             |          |              |
| -            |       | quartz veining present, plus some minor flow features  |                   | ·             |          |          | l            | <u> </u>     |          | <b> </b>    | <b> </b> |            | <del></del> | <b>3</b> | <del> </del> |
|              |       | @ 43.8-44.6 - qtz veining - 65° to CA with no sulphides  |                   |               |          |          | -            |              |          | -           |          |            |             |          |              |

|          |              |  | •                 |               | SHEET  | NO.  | 2 01   | f 4  |  |  | HOLEN  | 10.  | XPO4   |  |  |
|----------|--------------|--|-------------------|---------------|--|--|--|--|--|--|--|--|--|--|--|
| F001     | AGE          |  |                   | CAMPI E       |  | OOTAGE   |  |  |  | ASSAY  | ′S   |  | ·  | REC  | OVERY  |
| FROM     | то           | DESCRIPTION  | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM   | то   | LENSTH   |  |  |  |  |  |  | RUN  | SHORT  |
|          |              | @ 55-57' - 50% qtz veins - no sulphides - 55-60° to CA   |                   |               |  |  | 1  |  |  | <del></del> -                                    |  | †  |  | †  | +  |
|          |              | @ 65-65.3 - qtz veining - 1% pyrite - 60° to CA  |                   |               |  |  |  |  |  |  |  | 1  |  |  |  |
|          |              | @ 92.0 - chilled flow contacts plus minor qtz - veining  |                   |               |  |  |  |  |  |  |  |  |  |  |  |
| <b></b>  |              | (02 00) Machine Florence F a man and anti-   |                   | <b>!</b>      | <u> </u>   |  | ļ  | <b></b>  |  |  |  |  |  |  |  |
| <u> </u> | <u> </u>     | (92-99) Another flow unit - f.g m.g. andesite - more carbonated  |                   | <b></b>       | <del>                                     </del> | <b> </b>   | _  |  | <del> </del>                                     | ļ.   | <b>↓</b>   | <del> </del>                                     |  | <b>↓</b>   | ↓  |
| <u> </u> | <b> </b>     | and grainy than 42-92', rather homogeneous and similar to previous andesite flows - slightly schistose - |                   |               | <del> </del>                                     | <u> </u>   | ļ  |  | <del> </del>                                     | ļ  | ļ  | -  | <del></del>                                      | <del> </del>                                     |  |
| <u> </u> | <b> </b>     | 60-70° to CA.  | <b> </b>          |               | <del> </del>                                     |  | <del> </del>                                     | <del> </del> _                                   | <del> </del>                                     | ļ  | <b> </b>   | <del> </del>                                     | <u> </u>   | <b>↓</b>   | <del></del>                                      |
| <u> </u> |              | 00-70 to th.   | <b></b>           |               | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del></del>                                      |
|          |              | (99-141) Pillowed andesite flows   |                   |               | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     | <del>                                     </del> | <del>}</del>                                     | +  |
| -        |              | Similar to 5-42' well developed pillowed andesite flows  |                   |               | <del> </del>                                     |  | <del>                                     </del> |  |  | <b></b>  | <del> </del>                                     | <del> </del>                                     | +  | <del> </del>                                     | <del>                                     </del> |
|          |              | fine-grained, light green to medium green colour,  |                   |               | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | †  | +  | <del>                                     </del> | +  |
|          |              | inhomogeneous section - variable chlorite + sericite +   |                   |               | 1  |  |  | <u> </u>   |  | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     |  | <del>                                     </del> |  |
|          | ,            | slightly carbonated. Quite sericitized in places.  |                   | <b>.</b>      |  |  |  |  | <del> </del>                                     |  |  | 1  | <b>1</b>   | 1  |  |
|          |              | Pillow rinds and cores and holoclastite material common  |                   |               |  |  |  |  |  | 1  |  | 1  |  | 1  |  |
|          |              | throughout section   |                   |               |  |  |  |  |  |  |  |  |  |  |  |
|          |              | - trace pyrite   |                   |               | <u> </u>   |  |  |  |  |  |  |  |  |  |  |
|          |              | - Minor fracturing + 1-2% gtz veining  |                   |               |  | <u> </u>   |  |  |  |  |  |  |  |  |  |
|          | <u> </u>     | On the upper contact - qtz veining - more intense - 8%   |                   | <u> </u>      |  |  | <u> </u>   |  | <u> </u>   |  |  |  |  |  | <u> </u>   |
| L        |              | over 1'  |                   |               | <u> </u>   | <u> </u>   |  |  |  |  |  | <u> </u>   | <u> </u>   |  |  |
|          |              | 0 102.5 - 107.5 - 8-10% qtz veinlet - pervassive over  | ļ                 | ļ             | <u> </u>   | ļ <u>.</u>                                       | <u> </u>   | <u> </u>   | <u> </u>   |  | <u> </u>   | <u> </u>   | <b></b>  | <u> </u>   | <del></del>                                      |
| <u></u>  |              | 1' etc 60-70° to CA - trace pyrite.  |                   | ļ             | ļ  | ļ  | ļ  |  |  | <u> </u>   | <b> </b>   | ļ  |  | <b></b>  | ╀  |
| <u> </u> |              | @ 135-136 - pillow breccia section   |                   | ļ             | <b></b>  | <del> </del>                                     | ļ  |  |  |  | ļ  | <b> </b>   | <del></del>                                      | <b>↓</b>   | <del></del>                                      |
| <u> </u> | <del> </del> | Andesites are more carbonated near lower contact   |                   |               | <u> </u>   | <del> </del>                                     | <del> </del> -                                   | ļ —  | <del> </del>                                     | ļ  | <del> </del>                                     | <del> </del>                                     |  | <del> </del>                                     | -  |
|          |              | Andesites are more carbonated hear tower contact   | <b></b>           | <b></b>       | <del>                                     </del> | <del> </del>                                     |  | <del> </del>                                     | <del></del>                                      |  | <del> </del>                                     | ┼  | <del> </del>                                     | <del> </del>                                     | <del></del>                                      |
| 14) 0    | 172 (        | SHEAR ZONE   |                   | <del></del>   |  |  | <del>                                     </del> | <del> </del>                                     |  | <del>                                     </del> |  | <del>                                     </del> |  | <del> </del>                                     | <del></del>                                      |
| 171.0    | 1,2.0        | JILIN ZONG   |                   |               | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | +  |
|          |              | Sheared andesite - very chloritized andesite, rock consists of   |                   | <b></b>       |  | <del>                                     </del> |  | <del>                                     </del> | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |  | <del>                                     </del> | <del>                                     </del> |
| <u> </u> |              | 50% or more chlorite + 20-30% carbonate - vuggy in places. Very  |                   |               | <del> </del>                                     | <b></b>  |  | <u> </u>   |  |  | <del> </del>                                     | <b>T</b>   |  | <b>†</b>   | <del>                                     </del> |
|          |              | carbonated and schistose - 70° to CA section has only about 50%  |                   |               |  |  |  |  |  |  |  | <b>†</b>   |  | <b>T</b>   |  |
| <b>—</b> |              | recovery - blocky and crumbly-washed away during drilling.   |                   |               |  |  |  |  |  | <u> </u>   | 1  |  |  |  |  |
|          |              | This is probably chloritized - fault gouge or sheared material   |                   |               |  |  |  |  |  |  |  |  |  |  |  |
|          |              | - very soft rock   |                   |               |  |  |  |  |  |  |  |  |  |  |  |
|          |              | No sulphides present with little or no qtz veins.  |                   |               |  |  |  |  |  |  |  |  |  |  |  |
|          |              | ,  |                   |               |  |  |  |  |  |  |  |  |  |  |  |
|          |              | @ 166.0-167 (approx.) some bits + pieces of quartz vein material   |                   |               |  |  |  |  |  |  |  |  |  |  |  |
|          |              | NO Sulphides   |                   |               |  |  |  | <u>L</u>   |  |  |  | <u> </u>   |  |  |  |

|              |  |  |                   | :             |          |  |  |  |  |  |  |  |  |  |  |
|--------------|--|--|-------------------|---------------|----------|--|--|--|--|--|--|--|--|--|--|
| •            |  |  |                   |               | SHEET    | NO.  | 3 c  | of 4   |  |  | HOLE N   | io.  | XP04   |  |  |
| F00          | TAGE   | ·  |                   |               | F        | OOTAGE   |  |  |  | ASSAY  | 'S   | er opromoter at                                  |  | RECO   | OVERY  |
| FROM         | то   | DESCRIPTION  | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM     | то   | LENGTH   |  |  |  |  |  |  | RUM  | SHORT  |
|              |  | @ 170' several qtz veinlets - anastomosing type veins - no   |                   |               |          |  |  |  |  |  | <b>†</b>   | i  |  |  | <b></b>  |
|              |  | sulphides  |                   |               |          |  |  |  |  |  |  |  |  |  |  |
| <b></b>      |  | @ 170-172' quite brecciated core-recemented with carbonate   |                   | <b>!</b>      |          |  |  |  |  |  | 1  |  |  |  |  |
| <b> </b>     | 1.   | Note: especially poor recovery from 158-166'-25% recovery over   |                   | 1             |          | 1  | -  | <del> </del>                                     | <del>                                     </del> |  |
|              | <del> </del>                                     | this section - blocky, chips + pieces.   |                   |               |          |  | <del>                                     </del> | 1  |  | 1  | <u> </u>   | 1  | <del> </del>                                     |  | <del> </del>                                     |
| 1            | <b>†</b>   | one occording product, on possible product.  | <u> </u>          | 1             |          |  |  | <del>                                     </del> |  |  | <u> </u>   | <del> </del>                                     |  |  | <del> </del>                                     |
| 172.0        | 222.0  | ANDESITE   |                   |               |          |  |  |  |  |  |  |  |  |  |  |
| <u> </u>     |  |  |                   |               |          |  |  |  |  |  |  |  |  |  |  |
| <u> </u>     | ļ  | (122-213) Pillowed Andesite Flows  | <u> </u>          | <b>ļ</b>      |          | <b></b>  | <u> </u>   | <b> </b>   | ļ  | ļ  |  | 1  |  | <u> </u>   | <b> </b>   |
| <b></b>      | <del> </del>                                     | Light green colour, fine-grained, pillow selvages, coarser pillow cores and interpillow - haloclastite | <b>}</b>          | <u> </u>      | <u></u>  | <del> </del>                                     | -  | <del> </del>                                     | <u> </u>   | <u> </u>   | <del>                                     </del> | -  | <u> </u>   | <b>!</b>   |  |
|              |  | material pillows about 1' or less in thickness (approx.  |                   | <del> </del>  | <u> </u> | <del> </del>                                     | -  | <del>                                     </del> | 1  | <del> </del>                                     | 1  |  |  | <del>                                     </del> | <del> </del>                                     |
|              | 1  | Rocks are slightly schistose at about 60° to core axis.  | 1                 | 1             | <u> </u> | 1  |  | <del>                                     </del> | <del>                                     </del> | ļ  | <del>                                     </del> |  | <del>                                     </del> | 1  | <del>                                     </del> |
|              |  |  |                   | 1             |          | 1  |  |  |  | <del> </del>                                     |  |  |  | 1  |  |
|              |  | Alteration-moderate to strong silicification, moderate   |                   |               |          |  |  |  |  |  |  |  |  |  |  |
|              |  | to weak chloritization, minor albite in places + minor   |                   |               |          | ļ  |  | <u> </u>   | ļ  |  |  |  |  |  |  |
| <u> </u>     |  | epidote sulphides are generally associated with inter-   | <b>!</b>          | <u> </u>      |          |  | <u> </u>   | ļ  |  | -  |  | ļ  |  | <u> </u>   | ļ  |
| <u> </u>     |  | pillow material.   | ļ                 | <u> </u>      | <u> </u> | <del> </del>                                     |  | <del>                                     </del> | <del>                                     </del> |  | 1  | ļ  | ļ  | <b>∤</b>   | <del> </del>                                     |
| -            | -  | @ 175-175.6 - calcite-qtz- epidote vein with trace   | <del> </del>      | <b>-</b>      | <u> </u> | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | -  |  | <del> </del>                                     |  | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |
| <del> </del> |  | pyrite   |                   | <del> </del>  |          | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     |  |  | <u> </u>   | +  | <u> </u>   | <del> </del>                                     | <del> </del>                                     |
| 1            |  | @ 190 - over 1" about 5% po associated with carbonate  | <del> </del>      |               |          |  | 1  | <del>                                     </del> | <del>                                     </del> |  | †  | <del>                                     </del> |  | l  |  |
|              |  | veinlets   |                   |               |          |  |  |  |  |  |  |  |  |  |  |
|              |  | @ 198-199' - 2% Po + 2% py in cbt veinlet - inter-   |                   |               |          |  |  |  |  |  |  |  |  |  |  |
| ļ            |  | pillow material  | <u> </u>          |               |          |  | <del> </del>                                     | ļ  | ļ  | <u> </u>   | ļ  | 1  | <u> </u>   |  | ļ  |
| <u> </u>     |  | @ 210-210.3' qtz veining - 70' to CA.  |                   |               |          | <del> </del>                                     | <del>                                     </del> | <b></b>  | <del> </del>                                     | <u> </u>   | -  | <del>                                     </del> | <del> </del>                                     |  | 1  |
| }            | -  | (213-222) Andesite Flows   |                   | 1             |          | -  | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     | -  |  |  | <del> </del>                                     | <del>                                     </del> |
| <del> </del> | <del>                                     </del> | Light green to medium green coloured andesite. Fine to   | <del> </del>      |               |          | <del>                                     </del> | 1  | <del>                                     </del> | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |  | <del> </del>                                     | <del> </del>                                     |
| -            | 1  | medium grained andesite, homogeneous, probably flows   | <u> </u>          |               |          |  | 1  |  |  |  | 1  | <u> </u>   |  | 1  |  |
|              | 1  | with minor 2-3% qtz veining.   | Ì                 |               |          |  |  |  |  |  |  |  |  |  |  |
|              |  | Alteration-moderate chloritization - not silicified as   |                   |               |          |  |  |  |  |  |  |  |  |  |  |
|              |  | with the pillowed andesite.  |                   |               |          |  |  |  |  |  |  |  |  |  |  |
| 200 0        | 000  | - PITEPE   |                   |               |          | <u> </u>   | 1  | <u> </u>   | ļ  |  | ļ  | <u> </u>   |  |  |  |
| 222.0        | 229.0  | TUFFS  | ļ                 |               |          | <u> </u>   | 1  | <del> </del>                                     | <del> </del>                                     |  | <b> </b>   | ļ  |  |  |  |
| <u> </u>     | -  | Moderate to weakly bedded tuffs - intermediate composition   | <del> </del>      |               |          |  | -  | <del> </del>                                     | <del>                                     </del> |  | <del> </del>                                     | <del> </del>                                     |  | F  | <del> </del>                                     |
| <u> </u>     | <u> </u>   |  |                   | <u> </u>      | L        | <u> </u>   |  |  | <u> </u>   | L  | <u> </u>   | <u>.                                    </u>     | <u>.                                    </u>     | <u>ئے۔۔۔۔۔ا</u>                                  |  |

SHEET NO. 4 of 4 HOLE NO. XPO4

|          |  |   |                   |               | SHEET  | NO.  | 4 0  | T 4   |  |  | HOLEN  | Ю.   | XP04                                   |            |  |
|----------|--|---|-------------------|---------------|--|--|--|---|--|--|--|--|--|------------|--|
| F001     | TAGE   |   |                   | CAMPIE        | FC   | OOTAGE   |  |   |  | ASSAY  | 'S   |  |  | RECO       | OVERY  |
| FROM     | то   | DESCRIPTION   | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM   | ТО   | LENSTH   |   |  |  |  |  |  | RUN        | SHORT  |
|          |  | (andesite). Schistose and bedded -60-70° to CA - mm                         |                   |               |  |  |  |   |  |  |  |  |  |            |  |
|          |  | scale bedding.  |                   |               |  |  |  |   |  |  |  |  |  |            |  |
| <u> </u> | <u> </u>   | <u> </u>  |                   |               | ļ  |  | <u> </u>   | <u> </u>  | <u> </u>   |  |  | <u> </u>   |  |            |  |
|          | <del> </del>                                     | Alteration - slight to moderate carbonatization +                           |                   |               | <u> </u>   | <u> </u>   | <del> </del>                                     |   | ļ  | ļ  | <u> </u>   | <u> </u>   |  | <b></b>    | <b></b>  |
|          | <del> </del>                                     | slight sericite, minor pyrite (1-2%) scattered throughout 2-3% qtz veinlets |                   |               | ļ  | ├—   | -  | <b> </b>  | <del> </del>                                     | ļ  | ļ  | <u> </u>   |  | <u> </u>   | <del> </del>                                     |
|          | <del> </del>                                     | Rock is generally not sheared with some minor fracturing                    |                   |               | <del> </del>                                     | ļ  | <del> </del>                                     | <del> </del>                                      | <del> </del>                                     |  |  | <u> </u>   |  |            |  |
| ├─       | <del> </del>                                     | ROCK IS generally not sheared with some minor tracturing                    | <u> </u>          |               |  | <del> </del>                                     | ┼  |   | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     |  | <b></b>    |  |
| 929 N    | 201 0  | ANDESITE  |                   |               |  |  | <del>                                     </del> |   | <del>                                     </del> |  | <del> </del>                                     | <del>                                     </del> |  | <b></b>    | <del>                                     </del> |
| 223.0    | 291.0  | ANDLOTTE  | -                 |               | <del> </del>                                     | <del></del>                                      | <del> </del>                                     |   | <del> </del>                                     | <del> </del>                                     |  | <del>                                     </del> | <del></del>                            | <b></b>    | <del>                                     </del> |
|          |  | Fine grained to medium grained homogeneous and massive andesite.            |                   |               |  | <del> </del>                                     | 1  |   | <del> </del>                                     | <del>                                     </del> | <del></del>                                      | $\vdash$   |  |            |  |
|          |  | The rock is fairly hard and only slightly schistose and feldspathic         |                   |               |  |  | 1  |   |  | 1  | <del>                                     </del> | <b>†</b>   |  |            |  |
|          |  | with about 50% plag. feldspan and the rest chlorite + amphiholes.           |                   |               |  |  |  |   |  |  |  |  |  |            |  |
|          |  |   |                   |               |  |  |  |   |  |  |  |  |  |            |  |
|          |  | Alteration - slight -epidote + chlorite + variable hematite minor           |                   |               |  |  |  |   |  |  |  |  |  |            |  |
|          |  | 2% quartz veining trace pyrite (1%)   |                   |               |  | <u> </u>   |  |   | <u> </u>   |  |  |  |  |            | <b></b>  |
|          | ļ  |   | ļ                 |               |  | <u> </u>   | <u> </u>   | ļ   | <del> </del>                                     | <u> </u>   | <u> </u>   | <u> </u>   | <u> </u>                               |            | ļ  |
| <u> </u> | <del> </del>                                     | @ 249-251 - some 3% hematite alteration                                     |                   | ļ             | <b> </b>   | <del> </del>                                     | <del> </del>                                     | <u> </u>  | <del>                                     </del> | <u> </u>   | ļ  | ļ  |  |            | ļ  |
| <u> </u> | <del> </del>                                     | 0.076.070   |                   |               |  | <u> </u>   | -  | <del> </del>                                      | ├  | <del> </del>                                     | <del> </del>                                     | ├  |  | <b> </b> - |  |
| ļ        | <del> </del>                                     | @ 276-278 - 5-10% quartz veining + carbonate veining - 50-60° to CA.        | <b> </b>          |               |  | <del> </del>                                     | <del> </del>                                     |   | <del> </del>                                     | <del> </del>                                     |  | <del> </del>                                     |  |            | <del> </del>                                     |
|          |  | 50-60 to ta.  |                   |               | <del>                                     </del> | <del></del>                                      | <del>  -</del> -                                 | <del>                                      </del> | <del> </del>                                     | <del>  -</del>                                   | <del> </del>                                     | <u> </u>   | ļ                                      | <b> </b>   | <del>                                     </del> |
| }        | 291.0  | End of hole   | <b></b>           |               | <b></b>  | <del>                                     </del> | <del>                                     </del> | <del> </del>                                      | <del> </del>                                     | <del> </del> -                                   | <del> </del>                                     |  |  | <u> </u>   | ┼──┤   |
| <b> </b> | 291.0  | A. A  |                   |               | <b> </b>   |  | <del>                                     </del> | <del>                                     </del>  |  | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     |  | <b> </b>   |  |
|          | <del>                                     </del> | 1/to Don  |                   |               |  |  |  | <b></b>   |  | <del> </del>                                     | <b></b>  |  |  |            | <del>                                     </del> |
|          |  | fall of m   |                   |               |  |  | <u> </u>   |   |  |  |  |  |  |            |  |
| -        |  |   |                   |               |  |  |  |   |  |  |  |  |  |            |  |
|          |  |   |                   |               |  |  |  |   |  |  |  | ·  |  |            |  |
|          |  |   |                   |               |  |  |  |   |  |  |  |  |  |            |  |
|          |  |   |                   |               |  |  | <u> </u>   |   |  |  |  | L  |  |            |  |
| <u></u>  | <b>!</b>   |   |                   |               | <b></b>  | <u> </u>   | <b></b>  | <b> </b>  | <u> </u>   |  |  | <u> </u>   |  | <b> </b> ' | <b></b>  |
| <u></u>  |  |   |                   |               |  |  | <del> </del>                                     | <b> </b>  |  |  | -  | <del> </del>                                     |  | <b> </b>   | <u> </u>   |
| <u> </u> | <b>!</b>   |   |                   |               |  | <b></b>  | ļ  | <b> </b> -  |  | <u> </u>   | <b></b>  | <b> </b>   | <b> </b>                               | <b> </b>   | <b>  </b>  |
| <u></u>  | <b> </b>   |   |                   |               |  | <u> </u>   | <del> </del>                                     | <u> </u>  | <del> </del>                                     | <del> </del>                                     |  | <b> </b> -                                       | <b> </b>                               | <b> </b>   | <b> </b>   |
|          |  |   |                   |               |  | <b></b>  | <del> </del>                                     | <b> </b>  |  |  | ļ  | <b> </b>   |  | <b> </b>   |  |
|          |  |   |                   |               |  | }  | <del> </del>                                     |   |  |  | <del> </del>                                     |  | <b></b>                                |            | <del>                                     </del> |
| <b></b>  | <del> </del>                                     |   |                   |               |  | <del> </del>                                     | <del>                                     </del> |   | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> |  |            | <del>  </del>                                    |
| L        |  |   |                   |               |  | <u> </u>   | <u> </u>   | L   | L  | <u> </u>   | 1  | <u> </u>   | لـــــــــــــــــــــــــــــــــــــ | <b></b>    | <u> </u>   |



SCALE 1" to 400'

Location Sketch
Diamond Drill Holes
STA-1.STA-2.ST-1-6,
XP05.XP08

Asquith Township,Ont.



#### TIMMINS GOLD

## RESOURCES LTD. ANNETT PROPERTY

|         | DIP TEST  |           | LEVEL           | ELEVATION ·                | HOLE No. XP-05             |
|---------|-----------|-----------|-----------------|----------------------------|----------------------------|
| FOOTAGE |           | SLE       | LOCATION L 145  | BEARING 060°               | SHEET No. 1 of 2           |
|         | RECORDING | CORRECTED | SECTION 7 + 50E | LENGTH 254                 | LOGGED BY P. Born          |
|         |           |           | LATITUDE        | CORE SIZE IAX (1-3/8" dia) | <b>PURPOSE</b> Exploration |
|         |           |           | DEPARTURE -50°  | FINISHED April 16, 1982    | TOT. RECOVERY              |

|  |             | IV.   | DEPARTU  | UC- 3NI       |          |  |  | FINISHE | d Apri   | 1 10,  | 1902   |  | OT. RECOVER  | T  |  |
|--|-------------|---|--|---------------|----------|--|--|---------|--|--|--|--|--------------|--|--|
| FOOT   | AGE         |   |  |               |          | OOTAGE   | Ę  | *       |  | ASSAY  | S  |  |              | RECO   | OVERY  |
| FROM   | то          | DESCRIPTION   | GRADE<br>ESTIMATE                                | SAMPLE<br>NO. | FROM     | ТО   | LENGTH   | •       |  |  |  | æ  |              | ***  | SHORT  |
| 0  | 42.0        | OVERBURDEN  |  |               |          |  |  |         |  |  |  |  |              |  |  |
| 122 1  | 146 1       | Feldspar Porphyry   | <u> </u>   |               |          |  |  |         |  |  |  |  |              |  | <u> </u>   |
| 72.0   | 140.0       | Light to medium pink coloured feldspar porphyry-medium to coarse  | -  |               |          |  | ļ  |         | <del> </del>                                     |  | ļ  | <b></b>  |              | <del> </del>                                     | <del></del>                                      |
|  |             | grained and generally massive in nature   | ļ  |               | •        |  | ļ  |         |  | <del>                                     </del> | ļ  |  |              | <del> </del>                                     | <b></b>  |
|  |             | Monzonite to syenite composition with 15% large K-feldspar  | <b>├</b> ──                                      |               |          |  | <b></b>  |         | <del> </del> -                                   |  | ļ ·  |  |              | <del> </del>                                     |  |
|  |             | phonocrysts. Also 10% qtz, 15% biotite, 30% plagioclase feldspar  | <del> </del>                                     |               |          |  | <del>                                     </del> | -       |  |  | <del> </del>                                     | 1  |              | <del>                                     </del> |  |
|  | · · ·       | + 25% kspar in groundmass + 15% kspar phenocrypts 0.7 - 1.9 cm in   | <u> </u>   |               |          |  | <del>                                     </del> |         | <del></del>                                      |  | <u> </u>   | <del>                                     </del> |              | <b> </b>   |  |
| <del>-</del>                                     |             | size  | <u> </u>   |               |          |  | <b></b>  |         |  |  | <del>                                     </del> |  |              |  |  |
|  |             | Alteration - hemotization with 5% hematite staining particularly  | <u> </u>   |               |          |  |  | +       | <del>                                     </del> |  |  |  |              |  |  |
|  |             | in feldspars + variable chlorite + weakly carbonatized.   | <b>1</b>   |               |          |  |  | 1       | <b>†</b>   |  |  |  | <u> </u>     |  |  |
|  |             | Very little sulphide < 1% pyrite  |  |               |          |  |  |         |  |  |  | -  |              |  |  |
|  |             | - minor fracturing + 🔨 1% chlorite, veinlets  |  |               |          |  |  |         |  |  |  |  |              |  |  |
|  |             |   |  |               | -        |  |  | 1       |  |  |  |  |              |  |  |
|  |             | @ 99-101 - included in the porphyry is a DIORITE DYKE light   |  |               |          |  |  |         |  |  |  |  |              |  |  |
|  |             | grey colour with sharp intrusive contacts.  |  |               |          |  |  |         |  |  |  |  | _            |  |  |
|  |             |   |  |               |          |  |  |         |  |  |  |  |              |  |  |
| 146.0  | 170.5       | Contact Zone  |  |               |          |  |  |         |  |  |  |  |              |  |  |
|  |             |   |  |               |          |  |  |         |  |  |  |  |              |  |  |
|  |             | Zone consists mainly of very altered + veined andesite material   | <u>]</u>   |               |          |  |  |         | <u> </u>   |  | <u> </u>   |  |              | 1  |  |
|  |             | with minor feldspar porphyry  | ·  |               |          |  | <b> </b>   |         | <u> </u>   |  |  |  |              | ļ  |  |
|  |             | Alteration - slightly carbonitized and very chloritized   |  |               |          |  |  | 1       |  |  | <u> </u>   |  |              | ļ  |  |
|  |             | Section has about 50% vein material - carbonate - very contorted  | <b></b>  |               |          |  | ļ  |         | ļ  | <u> </u>   |  | <b></b>  |              |  | <u> </u>   |
|  |             | en echelon veins 1-0.5 cm wide. Veins are composed of   | <u> </u>   |               |          |  | <b> </b>   |         | ļ  | <b> </b>   |  | <del>  </del>                                    |              | ļ  |  |
|  |             | predominately carbonate + lesser qtz with the carbonate probably  |  |               |          |  | <u> </u>   |         | <del> </del>                                     | <u> </u>   |  |  | <u> </u>     | <b></b>  |  |
|  |             | dolomite (greyish) - no fiss in HCL, minor pyrite   |  |               |          |  | <u> </u>   |         |  |  | ļ  |  |              | <u> </u>   | <del></del>                                      |
|  |             | A 146 5 146 0 guarta voining with minor numito I hometite   | ļ  |               |          |  |  | _       | <u> </u>   | 1  | ļ  | <u> </u>   |              | <u> </u>   | <b></b>  |
| $\vdash$   |             | @ 146.5-146.9 - quartz veining with minor pyrite + hematite @ 156.6-162.0 - FELDSPAR PORPHYRY - Tight pink colour | <del>                                     </del> |               |          |  | <del>                                     </del> |         | <del>                                     </del> | <del> </del>                                     | 1  | <del>                                     </del> |              | 1  | <del> </del>                                     |
| 1-1  |             | chloritized, coarse-grained with K-feldspar phenocrysts   | <del> </del>                                     |               | <u> </u> | <del>                                     </del> | !  | +       | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | -  |              | <del>}</del>                                     | <del> </del>                                     |
|  | <del></del> | Rock is very fractured with 1-2% pyrite   | <u> </u>   |               | <b> </b> |  | <del>                                     </del> |         | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> |              | <del> </del>                                     | <del> </del>                                     |
| 1  | <del></del> | Porphyry could be a dyke or part of adjacent pluton.  | <del></del>                                      | <b></b>       | <u> </u> |  | <del> </del>                                     |         | <del>}</del>                                     | 1  | <del> </del>                                     | <del> </del>                                     | <del> </del> | <del>                                     </del> | <del> </del>                                     |
| 1  | •           | i or prigrey courts be a dyke or part or adjacent proton.   | <del>                                     </del> |               |          |  | -  | +       | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | -  | <del> </del> |  | <del> </del>                                     |
| <del>                                     </del> |             |   | <del> </del>                                     | <b> </b>      | <b> </b> |  | 1  |         | <del> </del>                                     | <del>                                     </del> | 1  | <del>                                     </del> |              |  | <del>                                     </del> |
| L  |             |   | 1  | <u> </u>      | <u> </u> | <u> </u>   | 1  |         |  | 1  | 1  | <u> </u>   | <u>i</u>     | ــــــــــــــــــــــــــــــــــــــ           |  |

XP-05

|          |       |   |                   |         | SHEET    | NO.      | 2 01     |          |          |       | HOLE N | 10. | .P-U5 |      |           |
|----------|-------|---|-------------------|---------|----------|----------|----------|----------|----------|-------|--------|-----|-------|------|-----------|
| F001     | AGE   |   |                   | SAMPLE  |          | OOTAGE   |          |          |          | ASSAY | 's     |     |       | RECO | OVERY     |
| FROM     | то    | DESCRIPTION   | GRADE<br>ESTIMATE |         | FROM     | 70       | LENGTH   | ·        |          |       |        |     |       | RUN  | SHORT     |
| 170.5    | 254.0 | Basalt/Andesite Flows   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       | Light green to medium green colours, fine grained andesite flows                              |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       | rather homogeneous unit with vesicular and spheralites  |                   |         |          |          |          | <u> </u> |          |       |        |     |       |      | <u> </u>  |
|          |       | Alteration - moderate to strongly carbonatized-calcite +                                      |                   |         |          |          | <u> </u> | <u> </u> | <u> </u> |       |        |     |       |      |           |
|          |       | moderately hematized (5%) + variable minor epidote Veining - 5% qtz cbt veining -40-60° to CA |                   |         |          |          |          | <u> </u> |          |       |        |     |       |      |           |
| <b>!</b> |       | Veining - 5% qtz cbt veining -40-60° to CA  |                   |         | <u> </u> |          |          |          |          |       |        |     |       |      |           |
| <b>}</b> |       | Sulphides - none or trace pyrite.   |                   |         |          |          | 1        | 1        | <u> </u> |       |        |     |       |      | 1         |
| <u> </u> |       | - hematite + cbt in-filling some vesicles + along fractures.                                  |                   |         | <u> </u> | 1        |          | <u> </u> |          |       |        |     |       |      |           |
|          |       | ·   | <u>.</u>          |         |          |          |          | 1        |          |       |        |     |       |      |           |
|          |       | @ 188.5-193.5 section with 10-20% cbt-qtz veining and moderately                              |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       | hematized + epidote   |                   |         |          |          | <u> </u> |          |          |       |        |     |       |      |           |
|          |       | @ 194-207 - a particularly amydylodal section of chloritized                                  |                   |         | <u> </u> |          | 1        | <u> </u> |          |       |        |     |       |      |           |
|          |       | <pre>basalt/andesite with calcite + hem.infilling</pre>                                       |                   |         | <u> </u> |          |          | <u> </u> |          |       |        |     |       |      | Ĺ         |
|          |       | @ 202-210 - 10-20% cbt veining + epd + hem.   |                   |         |          |          |          | <u> </u> | <u> </u> |       |        |     |       |      | 1         |
|          |       | @ 216-222 - 10-10% cbt veining + epd + hem. no sulphides                                      |                   | <u></u> |          |          |          |          |          |       |        |     |       |      |           |
|          |       | @ 237-247 - particularly epidotized section with cbt + hem                                    |                   |         |          | <u> </u> | 1        | <u> </u> |          |       |        |     |       |      |           |
|          |       | veinlets + 2% pyrite.   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       | •   | <u></u> i         |         | <u> </u> |          |          |          | <u> </u> |       |        |     |       |      |           |
|          | 254.0 | End of hole   |                   |         |          |          | <u></u>  |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       | Λ   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          | ·        |          |          |       |        |     |       |      |           |
| -        |       | Potto Dom   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       | 100110  |                   |         |          |          |          |          |          |       |        |     |       |      | ſ         |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          |       |        | ·   |       |      | 1         |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          | 1     | 1      |     |       |      | ſ <u></u> |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          | i     |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          | ]     |        |     |       |      |           |
|          |       |   |                   |         |          |          |          |          |          |       |        |     |       |      |           |
|          |       |   |                   |         |          |          | T        | l        | 1        |       |        |     |       |      |           |



#### TIMMINS GOLD

### RESOURCES LTD. Annett Asquith Option

|         | DIP TEST    | •         | LEVEL ,           | ELEVATION L51230             | HOLE No. XPO8       |
|---------|-------------|-----------|-------------------|------------------------------|---------------------|
| FOOTAGE | <del></del> | GLE       | LOCATION L 145    | BEARING 060                  | SHEET No. 1 of 3    |
|         | RECORDING   | CORRECTED | SECTION 10 + 50 E | LENGTH 252'                  | LOGGED BY P. Born   |
|         |             |           | LATITUDE          | CORE SIZE IAX 1-3/8 diameter | PURPOSE Exploration |
|         |             |           | DEPARTURE - 45°   | FINISHED May 25, 1982        | TOT. RECOVERY       |

|                   |             |  |  |               |             |          |        |  |  | 20, 1.   |                     |                     |          |      | السائدة       |
|-------------------|-------------|--|--|---------------|-------------|----------|--------|--|--|--|---------------------|---------------------|----------|------|---------------|
| FOOT              | AGE         |  |  |               |             | OOTAGE   | =      |  |  | ASSAY  | s                   |                     | ·        | RECO | OVERY         |
| FROM              | то          | DESCRIPTION  | GRADE<br>ESTIMATE                                  | SAMPLE<br>NO. | FROM        | To       | LENGTH | %<br>CU  | OZ<br>AU   | 02<br>A6   | CU<br>CUM.<br>W X A | AU<br>CUM.<br>W X A |          | RVN  | SHORT         |
| 0                 | 17          | OVERBURDEN   |  |               |             |          | 1      | 1  |  |  |                     |                     |          |      |               |
|                   |             |  |  |               |             |          |        |  |  |  |                     |                     |          |      |               |
| 7.0               | 111.0       | ALTERATION ZONE  |  |               |             |          |        |  |  |  |                     |                     |          |      |               |
|                   |             |  |  |               |             |          |        |  |  |  |                     |                     |          |      |               |
|                   |             | Zone consists of altered basalt/andesite material with intense   |  |               |             |          |        | <u> </u>   |  |  |                     |                     |          |      |               |
|                   |             | carbonate - quartz veining making up 40-50% vein material with   |  |               |             |          |        |  |  |  |                     |                     |          |      | <u> </u>      |
|                   |             | 1-5% pyrite  |  |               |             |          |        |  |  |  |                     |                     |          |      |               |
|                   |             | SYENITE dykes included in the alteration zone plus a fuchsite  |  |               |             |          |        | ↓  |  |  |                     |                     |          |      |               |
|                   |             | bearing zone from 45.7-75.0'. This zone has extensive quartz -   |  |               |             |          |        | <b>.</b>   |  |  |                     |                     |          |      | <b></b>       |
| $\longrightarrow$ |             | carbonate veining + 1-5% pyrite throughout.  |  |               |             |          |        | <u> </u>   |  |  |                     |                     |          |      | <del></del>   |
|                   |             | /17 20 EV A71  |  |               |             |          |        |  |  | <b> </b>   |                     |                     | <u> </u> |      | <del>  </del> |
|                   |             | (17-30.5) Altered basalt/andesite flows, med. green colour f.g.  |  |               |             | <u> </u> |        | <u> </u>   | <b></b>  |  |                     |                     |          |      |               |
|                   |             | veined by qtz-carbonate veins 40-50% at 60-90° to CA   |  |               |             |          |        | <u> </u>   | ļ  |  |                     |                     |          |      | <del></del>   |
|                   |             | very contorted veins. Alteration - carbonate +   |  |               |             |          |        | <b></b>  | 1  |  |                     |                     |          |      | ↓             |
|                   |             | sericite + minor fuchsite (locally) at 22' and 24'   |  |               |             |          | ļ      | <del> </del>                                     |  |  |                     |                     |          |      | ↓             |
|                   |             | Sulphides 1-10% pyrite, i.e. at 24-25.5-10% pyrite   |  |               |             |          |        | <u> </u>   | Į  |  |                     |                     | ļ        |      | ↓             |
|                   | ∤           | (20 F 22 0) CVENITE DVVE C:  |  |               |             |          |        | <b> </b>   |  | <u> </u>   |                     |                     |          |      | ↓             |
|                   |             | (30.5-33.8) SYENITE DYKE - fine to medium grained, light grey -  |  |               |             |          |        | <del> </del>                                     |  | <u> </u>   |                     |                     |          |      |               |
|                   |             | pink colour - sharp contacts with 1-2% pyrite +  |  | <u></u> -     | <del></del> |          | -      | !  | <u> </u>   | ļ  |                     | ,                   |          |      |               |
|                   |             | 1-2% QCV.  |  |               |             |          |        | -  | <u> </u>   | ļ  |                     |                     |          |      | <del> </del>  |
|                   |             | /22 0 20 7) 4]4  |  |               |             |          |        | ļ  | ļ  | <del>                                     </del> |                     |                     |          |      | <del></del>   |
|                   | }           | (33.8-39.7) Altered basalt/andesite flows - similar to 17-30.5   |  |               |             |          |        |  | <b>!</b>   | <del>                                     </del> |                     |                     |          |      | <del></del>   |
| -                 |             | (20.7 AE 7) CVENITE DVVE   |  |               |             | · · ·    |        | <del> </del>                                     | <u> </u>   | <u> </u>   |                     |                     |          |      | <del></del>   |
|                   | }           | (39.7-45.7) SYENITE DYKE - med. pink colour. med. grained massive with sharp intrusive contacts with 10-20% qtz-cbt. |  |               |             |          |        | <del> </del>                                     | <del> </del>                                     | <u> </u>   |                     |                     |          |      | <del></del>   |
|                   |             | veins with 2% pyrite and minor specular hematite   |  |               | •           |          |        | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     |                     |                     |          |      | <del></del>   |
|                   |             | Alteration - hematized. Mineralized - 2% pyrite  | ·· <del>-</del> ·-································ |               |             |          |        | 1  | <u> </u>   | <del> </del>                                     |                     |                     |          |      | <del></del>   |
|                   |             | and 2% specularite.  |  |               |             |          |        | <del> </del>                                     |  | <u> </u>   |                     |                     |          |      | <del></del>   |
|                   |             | and the operations   |  |               |             |          |        | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | -                   | •                   |          |      | -             |
|                   |             | (45.7-75) FUCHSITE alteration zone-zone consists of altered  |  |               |             |          |        | <del> </del>                                     | -  |  |                     |                     |          |      | <del></del>   |
|                   |             | metabasalts which is fuchsite bearing.   |  |               |             |          |        | <del> </del>                                     | -  |  |                     |                     |          |      | 1-            |
|                   | <del></del> | Colour - bright emerald green colour throughout  |  |               |             |          | -      | <del>                                     </del> |  |  |                     |                     |          |      | <del></del>   |
|                   | ·           | consist of 5-10% fuchsite with 30-50% anastomosing   |  |               |             |          |        | 1  |  |  |                     |                     | :        |      |               |
|                   |             | qtz-cbt veins at 60-90 to CA pyrite -1-5% throughout   |  |               | -           |          |        | <del> </del>                                     |  | <del> </del>                                     |                     | <u> </u>            |          |      | <del></del>   |

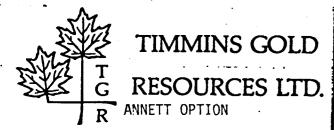
XP08 2 of 3 SHEET NO. HOLE NO. **FOOTAGE** FOOTAGE **ASSAYS** RECOVERY SAMPLE GRADE DESCRIPTION TO NQ. FROM ESTIMATE LENGTH SHORT with some small dark grey crystals? at 64-66' not magnetite. Sericite alteration prominent between 66-68. Altered andesite/basalt section similar to 17-30' with (75-111)about 50% QCV material 60-90° to CA Alteration - intense and variable cbt + ser. + chlorite + minor fuchsite. Pyrite 1-3% throughout near lower contact the % of veining decreases and fuchsite disappears. ANDESITE/BASALT FLOWS 111.d 252 (111-217)Pillowed flows medium to dark green colour - altered basalt/andesite type flows - fine grained and vesicular flows slightly schistose. Flow features + flow contacts + vesicles Alteration - moderate - to strongly chloritized + carbonatized, hematite + epidote fairly intense locally with some epidotized flow tops + pillows hematite - calcite in-filling of vesicles Sulphides - 1% pyrite + local 1-5% specularite @ 190 - over 1" length - 10% CPY and from 188-193'-3-5% carbonate veining + 3% hematite. @ 185-200' - 1-2% cpy associated with hem+ calcite veining and alteration Flow breccia units-fragmental nature with 10-15% (217-219)carbonate replacement in matrix and schistose 15-20% fragmentals - probably flow top unit. Alteration less chloritized than before and no epidote

SHEET NO.

3 of 3

HOLE NO.

FOOTAGE FOOTAGE **ASSAYS** RECOVERY GRADE SAMPLE DESCRIPTION FROM NO. FROM LENGTH SHORT (219-252) Medium to light gray-green colour, medium grained flows. Alteration - not carbonated and not very altered - only slightly hematized. Probably course flows with some flow banding/schistosity in some places. Alternatively might be diabase sill/dyke but no intrusive contacts. Homogeneous massive/unit. Carbonate veining - 1%, little sulphides - 1% py @ 246-247 - 25% cbt veining + 1% py, 0-20° to CA. END OF HOLE



|         | DIP TEST  |           | LEVEL             | ELEVATION          | HOLE No. STA-1      |
|---------|-----------|-----------|-------------------|--------------------|---------------------|
| FOOTAGE | AN        | GLE       | LOCATION L 26+22N | BEARING 055°       | SHEET No. 1 of 5    |
|         | RECORDING | CORRECTED | SECTION 8 + 00E   | LENGTH 258         | LOGGED BY A. Born   |
|         |           |           | LATITUDE          | CORE SIZE AXT      | PURPOSE Exploration |
|         |           |           | DEPARTURE -450    | FINISHED May, 1981 | TOT. RECOVERY       |

|  |  |   |  |  | <u> </u>      |              |               |   |               |  |  |   |  |               |  |
|--|--|---|--|--|---------------|--------------|---------------|---|---------------|--|--|---|--|---------------|--|
| FOOT                                   | AGE                                    |   |  | <b>[</b> , '                                     |               | FOOTAG       | E             |   |               | ASSAYS   | s  |   | <u> </u>   | RECC          | OVERY  |
| FROM                                   | то                                     | DESCRIPTION   | GRADE<br>ESTIMATE                                | SAMPLE<br>NO.                                    | PROM          | то           | FENETH        |   |               |  |  |   |  | ***           | SHORT  |
| 0                                      | 10                                     | OVERBURDEN  |  |  |               |              |               |   |               |  |  |   |  |               |  |
| <del>- 10</del> 1                      | 110                                    |   | ′  | '  | <u> </u>      |              |               | '   | ′             | <del></del> '                                    | <b>_</b>   |   | <b></b> /  | <b>4</b> '    | 1  |
| 10                                     | 110                                    | Feldspar Porphyry   | <b>4</b> '                                       | <del> '</del>                                    | 4′            | 1            | <del></del> ' | 4′  | <b></b> '     | <del></del> '                                    | <b></b> '  | <b></b>   | <b></b>  | <b></b> '     | <del></del>                                      |
|  |  | Light pink to medium pink in colour medium-grained groundmass                       | <b></b>  | <del> </del> '                                   | <del></del> ' | 4            | <del>- </del> | <b></b> '   | <del> </del>  | <del></del>                                      | <del> </del> '                                   | +   | 1  | 1             | +  |
| ,——,                                   | <b></b>                                | with medium to coarse graind phenocrysts of K-spar                                  | +'   | <del> </del>                                     | <del></del> ' | <del></del>  | +'            | <del> </del> '                                    | <del> </del>  | <del> </del>                                     | <b> </b>   | +   | 1  | <b></b>       | <del></del>                                      |
| ,                                      | · ·                                    | with meatum to coarse granta phenocrysts or k-spar                                  | <del>                                     </del> | <del> </del>                                     | <del></del> ' | <del> </del> | +             | 1   | <del> </del>  | <del> </del>                                     | <del> </del>                                     | <del> </del>                                      | <del>                                     </del> |               | <del></del>                                      |
| , <del></del>                          | !                                      | 10-15   | 1  | <del> </del>                                     | <b></b>       | <del> </del> | +'            | <del>                                     </del>  | <del> </del>  | <del>                                     </del> | <u> </u>   | <del> </del>                                      | <del> </del>                                     | <del></del>   |  |
| ,                                      | ,                                      | Light green grey colour with pink feldspar phenocrysts                              | <del></del>                                      | <del> </del>                                     |               | <del> </del> | <del> </del>  | <del></del>                                       | 1             | <del> </del>                                     | <del>                                     </del> | $\vdash$  | 1  |               |  |
|  | ,                                      | phenocrysts are euhedral - 1 cm, zoned, some show resorption                        |  |  |               |              | 1             |   |               |  |  |   | <del> </del>                                     |               |  |
| ,                                      | , ,                                    | features - phenocrysts - 5% lath shaped plag, feldspars in                          |  |  | <b>(</b>      |              | 1             | 1   |               |  |  |   | 1  |               |  |
|  |  | groundmass 10-15% quartz + sericite interstitial to plagioclase                     |  |  | <b>1</b>      |              | <u> </u>      | <u> </u>  |               | ,  | ,  | ſ <u></u>   |  |               |  |
|  |  | (20%) 1-2% py dissem. in porphyry   |  |  |               |              |               |   |               |  | '  |   | <u> </u>   |               |  |
|  |  |   | $\subseteq$                                      |  |               |              |               |   |               |  |  |   |  |               |  |
|  | انـــــا                               | 15-34   | <u> </u>   |  |               |              |               |   |               |  |  |   |  | <u> </u>      | 1  |
|  |  | Porphyry becomes medium pink colour, degree of hematization                         | <u> </u>   |  | <u> </u>      |              |               | ′   | ′             | ′  | ′  | ′   |  | <u> </u>      | 4  |
|  | <b></b>                                | is quite variable   | <u> </u>   | <u> </u>   | <u> </u>      | <u></u>      | <u> </u>      | <u> </u>  | <b>Ĺ</b> ′    | <u> </u>   | <u> </u>   | <u> </u>  | <u> </u>   | 4'            | 4-   |
| لـــــــــــــــــــــــــــــــــــــ |  | 1-2% hairline fractures of hematite + chlorite                                      | <b></b> ′  | 4'   | 4′            | 4            | <del></del> ' | ↓′  | <b></b> '     | <b></b> ′  | <b></b> '  | 4   | <b></b> /  | <b>↓</b>      | 4  |
|  | اـــــــــا                            | 1-2% disseminated pyrite  | <b></b> ′  | <b></b> '  | 4'            | <del></del>  | <b></b> ′     | <b></b> '   | <b></b> '     | 4'   | <b></b> ′  | 4   | <u> </u>   | <del></del> ' | 1  |
|  | اـــــــــــــــــــــــــــــــــــــ |   | 4  | +  | ←—′           | 4            | <b></b> ′     | 4'  | <del></del> ' | +'   | <del>  '</del> '                                 | <del> </del>                                      | <b></b>  | <b></b>       | +  |
| <b>,</b> ——                            |  | 34-51   | 1  | +  | <del></del> ' | +            | <del></del>   | <b>4</b> '  | <del></del>   | <del></del>                                      | <del> </del>                                     | +'  | <del></del>                                      | <b></b>       | 1  |
| <u></u>                                |  | Sericitized porphyry section, similar to above modal % groundmass feldspars similar | <del></del>                                      | <del> </del>                                     | <b>/</b>      | +            | <del></del> ' | <b>—</b>  | 1             | <del> </del> '                                   | +'   | <del>                                     </del>  | <del> </del>                                     | $\leftarrow$  | <del> </del>                                     |
| <del></del>                            | ,                                      | 1-2% disseminated pyrite  | <del> </del>                                     | 1-   | <del></del>   | +            | +             | <del> </del>                                      | <del></del>   | <del> </del>                                     | <del> </del>                                     | +   | <del></del>                                      |               | +  |
| <del></del>                            | , <del></del>                          | 1-2% disseminated pyritic   | <del> </del>                                     | <del> </del>                                     | <del></del>   | +            | +'            | +'  | +             | +  | 1  | <del></del>                                       | <del> </del>                                     |               | <del></del>                                      |
| ,                                      | , <del></del>                          | 51-74   | <del> </del>                                     | <del>                                     </del> |               | 1            | +             | 1-  | 1-            | <del> </del>                                     | <del>                                     </del> | 1-  | 1  |               | <del>                                     </del> |
| 4                                      | ,                                      | Hm'd fsp especially along grain boundaries  | <del>                                     </del> | <del> </del>                                     |               | <del> </del> | +             | 1   | <del> </del>  | <del> </del>                                     | <del> </del>                                     | 1   | 7  |               |  |
| ,                                      | ,                                      | will a rop aspectatily arong grain boundaries                                       | <del>                                     </del> | t  |               | +            | +             | <del>                                      </del> | <del> </del>  | 1  | 1  | <del> </del>                                      |  |               |  |
| <u></u>                                | ,                                      | 73-74   |  |  |               |              | 1             | 1   | t             |  |  | <del>                                      </del> |  |               | <u> </u>   |
|  |  | Specular hematite along fractures   |  | <u> </u>   |               |              |               | <u> </u>  | <u> </u>      | T  | <u> </u>   |   |  |               |  |
|  |  |   |  |  |               |              |               |   |               |  |  |   |  |               |  |
|  | ·                                      | 75-110  |  |  |               |              |               |   |               |  |  |   |  |               |  |
| ليست                                   |  | Sericitized porphyry  |  |  |               |              |               |   |               |  |  |   |  |               |  |
| 1                                      | · · · · · · · · · · · · · · · · · · ·  | Pale green colour   | ′  | ′  |               |              | Ι             |   |               |  |  |   |  | <b></b> ′     | _[   |

STA-1

SHEET NO.

2 of 5

HOLE NO.

FOOTAGE FOOTAGE **ASSAYS** RECOVERY GRADE SAMPLE DESCRIPTION FROM TO ESTIMATE NO. LENGTH coarse-grained phenocrysts are found in a lt. green coloured groundmass sericitized pyrite has recrystallized along phenocrysts as well as in groundmass locally up to 5% hairline of black chlorite. The % of white carbonate (calcite) increases around fractures. 107-110 Porphyry is fractured in this section due to intrusion of mafic dyke . 5% pyrite is disseminated along these fractures infilled by black chlorite + QV 133 MAFIC DYKE 110 Black in colour, massive fine grained, very strongly chloritized with epidotized feldspars weakly hamatized. 1% veinlets of carbonate. 133 167.3 FELDSPAR PORPHYRY (133-153) 3-10% phenocrysts - light pink to lt. green-sericitized 1-2% fracturing throughout section - infilled with black wall chlorite. 15% white fsp laths 5 mm. 25% qtz + sericite - 2% fine grain sparks of pyrite throughput section 163-168 More strongly sericitized porphyry, less crystalline than before. not as porphyritic, probably due to alteration. FUCHSITE ZONE STA-1 Sericitized Fsp. Porphyry 166.3167.3 167.3 200.0 Fc-Bearing zone 167.3 to 168 QV milky qt with 5% py locally minor fc

|          | · ·  |   | -  |  | SHEET  | NO.  | 3  | of 5   |              |   | HOLE   | 10.  | STA-1        |  |  |
|----------|--|---|--|--|--|--|--|--|--------------|---|--|--|--------------|--|--|
| FOOT     | rage   |   |  | -  | ı  | OTAGE  |  |  |              | ASSAY   | rs   |  | ·            | REC  | OVERY  |
| FROM     | то   | DESCRIPTION   | ESTIMATE   | SAMPLE<br>NO.                                    | PROM   | 70   | LENGTH   | ·  |              |   |  |  |              | RUM  | SHORT  |
|          |  | Contact at 167.3 is quite distinct 🛊 moded by Qz vein:            |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  | differs from Annett's hole where porphyry fragments & fsp         |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  | phenocrysts are torn+ bx in the fc-zone                           |  | <b></b>  |  |  | ļ  |  |              |   |  |  |              |  |  |
|          |  |   |  | <b>!</b>   |  | <b></b>  | <u> </u>   |  |              | <u> </u>  |  |  |              | <u> </u>   | <u> </u>   |
|          |  | 168-168.8   |  |  | <b> </b>   |  | <u> </u>   | <u> </u>   |              | <u> </u>  | <u> </u>   |  |              | <u> </u>   |  |
| <u></u>  |  | Gossaned zone with 1% f.gr cpy associated with chl-filled         | <u> </u>   | ļ  | <u> </u>   | ļ  | <del>                                     </del> |  | <u> </u>     |   | Ļ  |  |              |  | <del> </del>                                     |
| <u> </u> |  | fractures in Q-C veining. Minor specks of py also observed.       | <b></b>  | ļ  | <u> </u>   |  | ļ  |  |              | ļ   | <b></b>  | <del> </del>                                     |              | <u> </u>   | <del> </del>                                     |
| <u> </u> |  | 160 0 4- 170 1  | <u> </u>   | <b></b>  |  |  | <del> </del>                                     | ļ  |              | ļ   | <b></b>  |  |              |  |  |
| <u> </u> |  | 168.8 to 170.1  | <u> </u>   | <del> </del>                                     | ļ  |  | <del> </del>                                     | <b> </b>   | ļ            |   | <u> </u>   | ļ  |              |  | ļ  |
| <u> </u> |  | Intense QV crosscut by irregular black chl veinlets + accompanied | ļ  | <u> </u>   | <del></del>                                      |  | ļ  | <b> </b>   | ļ            | ļ   | <u> </u>   | ļ  | ļ            | <b>!</b>   | <u> </u>   |
| 1        |  | by fc-alteration fg py occurs along hairline veinlets.            |  | ļ  | <del>                                     </del> |  | <del> </del>                                     | <del> </del> _                                   | ļ            |   | <u> </u>   | <del> </del>                                     |              |  | <del> </del>                                     |
|          |  | 170 1 to 175 0 to 176   | <b></b>  | <del> </del>                                     | <del>                                     </del> |  | <del> </del>                                     | <del> </del>                                     |              | <del> </del>                                      | <del> </del>                                     | <del>                                     </del> | <u> </u>     | <del>  </del>                                    | <del>                                     </del> |
|          |  | 170.1 to 175.0 + 175.0 to 176  Med green altered basalt?          | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <b> </b>   | <del> </del>                                     | <del></del>                                      |              | ·   | <del> </del>                                     | <del>                                     </del> |              | <del>                                     </del> | <del>                                     </del> |
| <u> </u> |  | Chloritized + fc-bearing  | <del>                                     </del> | <del></del>                                      | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |              | <del></del> -                                     | ├  | <del> </del>                                     | · ·          | <del> </del>                                     | -  |
| $\vdash$ | <del>                                     </del> | fine-grained moderately schistose                                 | <del></del>                                      |  | -  |  | <del>                                     </del> | <del> </del>                                     | <del> </del> | <del>                                      </del> | <del> </del>                                     | <del> </del>                                     | <del> </del> | <b>!</b>   | <del> </del>                                     |
| <u> </u> |  | 2-3% O.C. veinlets crosscut unit trace specks of by observed      | <del></del>                                      | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> |  | <del> </del> |   | <del> </del>                                     | <del> </del>                                     |              | <del>                                     </del> | <del> </del>                                     |
| 1        |  | in groundmass + bl chl veinlets as well as Q-C veining            |  | <del>                                     </del> |  |  | <del>                                     </del> |  |              |   | <del>                                     </del> | <del> </del>                                     |              | -  | <del> </del>                                     |
|          |  | III groundinass i bi citi vetitiecs as well as 0-0 vetiting       |  | <del> </del>                                     |  |  | <del>                                     </del> | <del> </del>                                     |              | <del>                                     </del>  | <del> </del>                                     | <del>                                     </del> |              |  | <del> </del>                                     |
|          |  | 176 to 187  | <del> </del>                                     | <del>                                     </del> |  |  | <del>                                     </del> | <del> </del>                                     |              | <del> </del>                                      | <del>                                     </del> | <del>                                     </del> |              | <b></b>  | 1  |
|          |  | Altered basalt: chloritized to lesser extent fc-bearing '         | <b>-</b>   |  | l  | <del>                                     </del> | <del> </del>                                     |  |              | <del>                                     </del>  | <del> </del>                                     | <del>                                     </del> | <del> </del> |  | <del>                                     </del> |
|          |  | 10% Qz-cbt (sometimes vuggy) veining throughout section           |  |  | <b> </b>   |  | 1  |  |              |   | <del>                                     </del> | <del>                                     </del> | <del> </del> | <del>.</del>                                     | <del>                                     </del> |
|          |  | Tr amt specks of py associated with cbt-Q veinlets                |  | <b></b> -  |  |  | 1  |  |              | <u> </u>  | 1  | <del> </del>                                     | <u> </u>     |  | <del> </del>                                     |
| -        |  | - groundmass doesn't eff.with HCL however look carbonated         |  | <b></b>  |  |  | 1  |  |              |   | <del>                                     </del> | <del>                                     </del> |              |  | <del> </del>                                     |
|          |  |   | ****   |  |  |  |  |  |              | <b></b>   | <del>                                     </del> | <del>                                     </del> |              |  |  |
|          |  | 187.0 to 195.8  |  |  |  |  | <del>                                     </del> |  |              |   | <b>†</b>   | 1  | <u> </u>     |  | l —  |
|          |  | Increase in fc-alteration - bright emarald green colour           |  |  |  |  |  |  |              |   |  | 1  |              |  |  |
|          |  | Moderately schistose f.g. rock - original rock type is            |  |  |  |  |  |  |              |   |  | ·  |              |  |  |
|          |  | difficult to discern intensely altered basalt: zone contains      |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  | 2-3 cm wider + greater QC veins, carbonate seems to have          |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  | formed at the edge of the QV                                      |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  |   |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  | 195.8 to 196.5  |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  | Štrongly silicified + sericitized zone.                           |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  | Buff - coloured - aphanitic                                       |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  | Moderately schistose  |  |  |  |  |  |  |              |   |  |  |              |  |  |
|          |  | 5% py pypyroblast 1-2 mm  |  |  |  |  |  |  |              |   |  |  |              |  |  |
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|------|-----|--|----------|----------|-------|----------|----------|----------|----------|-----------|---------------------------------------|-----|---|-----|----------|
| FOOT | AGE |  | GRADE    | SAMPLE   | F     | OOTAGE   |          | <u>.</u> |          | ASSAY     | 'S                                    |     |   | REC | OVERY    |
| FROM | то  | DESCRIPTION  | ESTIMATE |          | PROM  | 70       | LENGTH   |          |          |           |                                       |     |   | AUN | SHORT    |
|      |     | 196.5 to 197.3   |          |          |       |          |          |          |          |           |                                       |     |   |     | <b>†</b> |
|      |     | Qz - cbt veining   |          |          |       |          | 1        |          |          |           | · · · · · · · · · · · · · · · · · · · |     |   |     |          |
|      |     |  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | 197.3 - 198.0  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | Sericitized zone   |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | Strongly laminated + locally bx'd with sericitized fragments     |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | in chl + fc matrix   |          |          |       |          |          |          |          |           |                                       |     | · |     |          |
|      |     |  |          |          |       |          |          |          |          |           |                                       |     | - |     |          |
|      |     | 198 to 200   |          |          |       |          |          |          | ·        |           |                                       |     |   |     |          |
|      |     | Fc + chl alteration  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | with 2-5% Q-C veining  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     |  |          |          |       |          | 1        |          |          |           |                                       |     |   |     |          |
| 200  | 202 |  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | pale green to yellow colour                                      |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | fine-grained to aphanitic  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | 2% hairline veinlets of qz                                       |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | 2% chlorite  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | 1-2% v.f. gr. specks of py in assoc. with fractures veinlets     |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     |  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     |  |          | <u> </u> |       |          | l        |          |          |           |                                       |     |   |     |          |
| 202  | 258 | Chloritized Metabasalt   |          |          |       | <u> </u> |          |          |          |           |                                       |     |   |     |          |
|      |     |  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | Dk green colour fine-grained                                     |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
| ı    |     |  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | 203-211.0  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | 10% cbt veinlets - locally vuggy                                 |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | 4-5% specularite hm - fine-grained or may form needles           |          |          |       |          | <u> </u> |          |          |           |                                       |     |   |     |          |
|      |     | within cbt veining - hm produces red staining                    |          |          |       |          | 1        |          |          |           |                                       | · · |   |     |          |
|      |     | cbt veining is anastamosing throughout section                   |          |          |       |          |          |          | <u> </u> |           |                                       |     |   |     |          |
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|      |     | 203.5  |          |          |       | ـــــــ  | 1        | <u> </u> |          |           | <u> </u>                              |     |   |     | <u> </u> |
|      |     | ir. specks of cpy + cy are observed in groundmass                |          |          |       |          | <u> </u> |          |          |           |                                       |     |   |     | <u> </u> |
|      |     |  |          |          |       |          |          |          | <u> </u> |           |                                       |     |   |     |          |
|      |     | 222.5 - 222.6  |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | 1% cpy in QC veins   |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | Basalt is dk green in colour strongly chloritized + carbonatized |          |          |       |          |          |          |          |           |                                       |     |   |     |          |
|      |     | fine-grained massive   |          |          |       |          | <u> </u> |          |          |           |                                       |     |   |     |          |
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|-------------|-----|---|-------------------|---|--|--|--|--|--|--|--|--|------|--|--|
| F001        | AGE |   |                   |   | F  | OOTAGE   |  |  |  | ASSAY  | 'S   |  |      | REC  | OVERY  |
| FROM        | TO  | DESCRIPTION   | GRADE<br>ESTIMATE | SAMPLE<br>NO.                           | PROM   | 70   | LEMSTH   |  |  |  | ·  |  | -    | AUN  | SHORT  |
|             |     | fine stringers of cbt. anastomosing fractures  Pyis often remob. along the fracture             |                   |   |  |  |  | 1  |  |  |  |  |      |  | 1  |
|             |     | pyis often remob. along the fracture  |                   |   |  |  |  |  | 1  |  |  |  |      | 1  |  |
|             |     | minor hematite staining along fractures.  |                   |   |  |  |  |  | l  |  |  |  |      |  |  |
|             |     |   |                   |   |  |  |  |  |  |  |  |  |      |  | 1  |
|             |     | 217-222   |                   |   |  |  |  |  |  |  |  |  |      |  |  |
|             |     | It green colours  |                   |   |  |  |  |  |  | 1  |  |  |      | 1  | 1  |
|             |     | silicified section is highly tractured 15-20%<br>black chl veinlets cross cut section - brittle | ·                 |   |  |  |  |  |  |  |  |  |      |  | 1  |
|             |     | black chl veinlets cross cut section - brittle  |                   |   |  |  | 1  | 1  |  |  |  | 1  |      | 1  | 1  |
| ì           |     |   |                   |   |  |  |  | 1  |  |  |  |  |      |  | 1  |
|             |     | (235-258)   | · ·               |   |  |  | 1  | 1  | 1  |  |  |  |      | 1  | 1  |
|             |     | Basalt is strongly carbonitized + chloritized   |                   |   |  | 1  |  | 1  |  |  |  |  |      | <del>                                     </del> | 1  |
|             |     | fig massive 2-3% carbonate veinlets   |                   |   |  | 1  | 1  |  |  | <b>—</b>   | <del>                                     </del> | 1  |      | <del>                                     </del> | +  |
|             |     |   |                   |   |  |  | 1  | <del>                                     </del> | 1  | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |      | 1  | +  |
|             |     | 244-245   |                   |   |  | <del>                                     </del> | 1  | <del>                                     </del> | $\vdash$   |  | <del> </del>                                     | <del> </del>                                     |      | <del>                                     </del> | +  |
|             |     | Moderately hematized section  |                   |   |  |  |  | 1  | <del>                                     </del> |  |  |  |      | 1  | +  |
|             |     | med. grained  |                   |   | <u> </u>   | 1  |  | <del>                                     </del> | <del>                                     </del> |  | <del> </del>                                     | <b>†</b>   |      | t  | <del>                                     </del> |
|             |     | f.g. py, cpy along fracture planes especially with black chlorit                                | <u> </u>          |   |  |  |  | <del>                                     </del> |  | <del>                                     </del> | <u> </u>   | 1  |      | <b>†</b>   | <del>                                     </del> |
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|             | 258 | End of Hole \( \rangle \)   | <b>!</b>          |   |  |  | 1  | <del>                                     </del> |  | <b>†</b>   | f  | <del> </del>                                     |      | <del>                                     </del> | <del>                                     </del> |
|             | 200 |   | l                 |   | <del>                                     </del> | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |  | <del>                                     </del> |      | <del></del>                                      | +  |
|             |     | Koly Min  | <b></b>           |   |  | <del> </del>                                     | <del>                                     </del> |  | <del>                                     </del> | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     |      | <del> </del>                                     | <del> </del>                                     |
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|             |     | ·   | -                 |   |  |  | <del>                                     </del> | <del> </del>                                     | <del></del>                                      | <u> </u>   |  | -  |      | <del> </del>                                     | +  |
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|             |     |   |                   |   |  | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |  |      | <del> </del>                                     | +  |
|             |     |   |                   |   |  | -  | <del> </del>                                     | <del> </del>                                     |  |  |  |  |      | ├  | <del> </del>                                     |
| ļ           |     |   |                   |   |  | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     |  |  | ļ  |      |  | <del> </del>                                     |
|             |     |   |                   |   |  | ļ  | -  | <del> </del>                                     |  | <b>}</b>   |  | <del> </del>                                     |      |  | <del> </del>                                     |
|             |     |   | ļ                 |   |  | <b> </b>   | ļ  | <del> </del>                                     |  |  | <del> </del>                                     | ļ  |      | <b>y</b> _                                       | <del> </del>                                     |
|             |     |   |                   |   |  |  |  | <u> </u>   | <del>  </del>                                    | ļ  | <b> </b>   |  |      |  | <del></del>                                      |
|             |     |   |                   |   |  | Ī  | 1  | <u> </u>   |  | l  | 1  | I  |      | 1  |  |



#### TIMMINS GOLD RESOURCES LTD.

HOLE No. STA-2 LEVEL ELEVATION DIP TEST L26+22N 055° 1 of 5 ANGLE LOCATION SHEET No. BEARING FOOTAGE CORRECTED RECORDING 8+.00E 271' LOGGED BY A. Born SECTION LENGTH AXT LATITUDE CORE SIZE PURPOSE FINISHED May 5/81 to May 9/8 TOT. RECOVERY ANNETT OPTION - ASQUITH TWP. 100% -15<sup>0</sup> DEPARTURE

|               |       | AMMEN OF HOM ADOLL AND   |                   | 1.            |      |  |  |  |  |  |  |            |       |          |             |
|---------------|-------|--|-------------------|---------------|------|--|--|--|--|--|--|------------|-------|----------|-------------|
| F001          | rage  |  |                   |               |      | OOTAGE   | E  |  |  | ASSAY:   | S  |            |       | RECO     | VERY        |
| FROM          | то    | DESCRIPTION  | GRADE<br>ESTIMATE | ŠAMPLE<br>NO. | FROM | 10   | LENGTH   |  |  |  |  |            | ·     | RUN      | SHORT       |
| 0             | 10    | OVERBURDEN   |                   |               |      |  |  |  |  |  |  | ·          |       |          |             |
|               |       |  |                   |               |      |  |  | 1  |  |  |  |            |       |          |             |
| 10            | 152.5 | Feldspar Porphyry  |                   |               |      |  |  |  |  |  |  |            |       |          |             |
|               |       | •  |                   |               |      |  |  |  |  |  |  |            |       |          |             |
|               |       | (10-83)  |                   |               |      |  |  |  |  |  |  |            |       |          |             |
|               |       | Lt to med pink in colour   |                   |               |      |  |  |  |  |  |  | •          |       |          |             |
|               |       | 5+10% phenocrysts of k-spar generally 10cmin grain size  |                   |               |      |  |  |  |  |  |  |            |       |          |             |
|               |       | enhedral. Lt pink to dk red in colour; locally phenocrysts are   |                   |               |      |  |  |  |  |  |  |            |       |          | <b></b>     |
|               |       | replaced (pseudomorphed) by specularite hematite yielding a  |                   |               |      |  |  |  |  |  |  |            |       |          |             |
|               |       | dk grey colour; replacement starts at grain boundary and   |                   |               |      |  |  | <u> </u>   |  |  |  |            |       | <u> </u> |             |
|               |       | followed by total replacement. Hematite pseudomorphing is  |                   |               |      |  |  |  |  |  |  |            |       |          |             |
|               |       | related to fractures infilled with hematite as well.   |                   |               |      |  |  | <u> </u>   |  |  |  |            |       |          |             |
|               |       | 100  |                   |               |      |  |  | <b>-</b>   |  |  |  |            |       |          |             |
|               |       | 10% med-grained subhedral-anhedral k-spar (?) in groundmass  |                   |               |      |  |  | <b>!</b>   |  |  |  |            |       |          | <del></del> |
|               |       | 100 5:   |                   |               |      |  |  | ļ  |  |  |  |            |       |          |             |
|               |       | 10% fine to med-grained anhedral quartz, occurring interstitially  |                   |               |      |  |  |  |  |  |  |            |       |          |             |
|               |       | to fsp. grains   |                   |               |      |  | <u> </u>   | ļ  |  |  |  |            |       |          |             |
|               |       | alteration: weakly to moderately sericitized after 52.0'   |                   |               |      | ļi   | ļ  | ļ  |  |  |  |            |       |          |             |
| <b> </b>      | -     | porphyry becomes moderately hematized + red-brown staining +   |                   |               |      |  | ļ  |  |  |  |  |            |       |          |             |
|               |       | specularite  |                   |               |      |  |  | -  |  |  |  | , <u>.</u> |       |          |             |
|               |       | py generally increases in sericitized sections  @ 35.5 - 37 2-3% py - fg dis py associated with groundmass |                   |               |      |  | <b></b> -  | <del>                                     </del> |  |  | <del></del>                                      |            |       |          |             |
| <del>  </del> |       | + OV   |                   |               |      |  | <del>                                     </del> | <del> </del>                                     |  |  |  |            |       |          |             |
| 1             |       | generally 1-2% py throughout porphyry  |                   |               |      | -  | <del> </del>                                     | <del> </del>                                     |  |  |  |            |       |          |             |
|               |       | generally 1 2% by an oughout porphyry  |                   |               |      |  | <del> </del>                                     | <del>                                     </del> |  |  | <del></del>                                      |            |       |          |             |
|               |       | 79-81  |                   |               |      |  | <del> </del>                                     | <del>                                     </del> | <u>.</u> .                                       |  |  |            |       |          |             |
|               |       | 5-7% black-chlorite veining cross cutting porphyry   |                   |               |      |  | <u> </u>   | <del> </del>                                     | <del>                                     </del> |  |  |            |       |          |             |
|               |       | (83-152.5)   |                   |               |      | <del>                                     </del> | <del>                                     </del> | 1  | <del>                                     </del> |  | <del>                                     </del> |            |       |          |             |
|               |       | Porphyry is fractured by cross cutting veinlets of blackwall   |                   |               |      | <del>                                     </del> |  | 1  |  |  |  |            |       |          |             |
|               |       | chlorite 2-3% py:  |                   |               |      |  |  | 1  |  | t  |  |            |       |          |             |
|               |       | from: 85 -116 bl. chl veining + minor QV   |                   |               |      |  | 1  | 1  | 1  | <del>                                     </del> | 1  |            |       |          |             |
|               |       | 2 to 15% of rock   |                   |               |      |  | <del>                                     </del> | 1  |  |  |  |            |       |          |             |
|               | ýr.   | porphyry is mainly sericitized   |                   |               |      |  |  |  | <b></b>  |  |  |            | · · · |          |             |
|               |       |  |                   |               |      |  |  |  |  |  |  |            |       |          |             |
|               |       |  |                   |               |      |  |  |  |  |  |  |            |       |          |             |

SHEET NO.

STA-2

|       |     |   |          |        |      |  |  |   |   |       |  |              |   |     | سيب نسبغ   |
|-------|-----|---|----------|--------|------|--|--|---|---|-------|--|--------------|---|-----|--|
| FOOT  | AGE |   | GRADE    | SAMPLE | F    | OOTAGE   | <u> </u>   |   |   | ASSAY | 'S   |              |   | REC | OVERY  |
| FROM  | то  | DESCRIPTION .   | ESTIMATE | i      | FROM | 70   | LENGTH   |   |   |       |  |              |   | RUM | \$M OR.  |
|       |     | locally veining is so intense that the porphyry becomes                         |          |        |      |  |  |   |   |       |  | 1            |   |     | 1  |
|       |     | brecciated into fragments i.e. 113.5, 124.                                      | <b>†</b> |        | i    | <del>                                     </del> | <del>                                     </del> | - | 1 |       |  | <del> </del> |   | -   | <del>  -                                    </del> |
|       |     |   |          | 1      |      |  |  |   | 1 |       | <del>                                     </del> |              |   | 1   |  |
|       |     | 116 - 152.5   |          | 1      |      |  |  |   |   |       |  |              |   |     | 1  |
|       |     | Porphyry is It to dk pink-red in colour - depending on the                      |          |        |      |  |  |   | 1 |       |  | 1            |   |     | 1  |
|       |     | degree of hematization  |          |        |      |  | T  |   |   |       |  |              |   |     | T  |
|       |     |   |          |        |      |  |  |   |   |       |  | 1            |   |     |  |
|       |     | 135-147   |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | Hematization is intense, porphyry is highly fractured and                       |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | fractures are infilled with speculatite + bl chl again pheno-                   |          |        |      |  |  |   |   |       |  |              |   | 1   |  |
|       |     | crysts of k-spar pseudomorphed by f.q. specularite                              |          |        |      |  |  |   | 1 |       |  | 1            |   |     |  |
|       |     | In places specularite replacement of groundmass is so intense                   |          |        |      |  |  |   |   |       |  |              |   |     | 1  |
|       |     | that the porphyry is fragmented + the crystallinity of the                      |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | formal groundmass is destroyed.   |          |        |      |  |  | 1 |   |       |  |              |   |     |  |
|       |     | 1-2% py is associated with veining.   |          |        |      |  | 1  |   |   |       |  |              |   |     |  |
|       |     |   |          |        |      |  |  |   |   |       |  |              |   |     | 1  |
|       |     | 152-152.5   |          |        |      |  | 1  |   | 1 |       |  |              | 1 |     |  |
|       |     |   |          |        |      |  |  |   |   |       |  |              |   |     | 1  |
| !     |     | Porphyry pale pk colour - anhedral crystals<br>- interground "mush" of fsp - qz |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | 5-1% < 1 mm specks of py throughout section                                     |          |        |      |  | T  |   |   |       |  |              |   |     |  |
|       |     |   |          |        |      |  |  |   |   |       |  |              |   |     |  |
| 152.5 | 223 | Fuchsite Alteration Zone  |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     |   |          |        |      |  |  |   | F |       |  |              |   |     | 1  |
| -     |     | (152.5-154)   |          |        |      |  | T  |   |   |       |  | 1            |   |     | 1  |
|       |     | Bright green colour 30-40% QV minor cbt   |          |        |      |  |  |   |   |       |  | 1            |   |     |  |
|       |     | moderately schistose  |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | 5-7% py   |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | 7-10% py f.q. py  |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     |   |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | 152.5 to 171.7  |          |        |      |  | Ī  |   |   |       |  |              |   |     |  |
|       |     | Fc-bearing zone with 7-10% OV throughout section                                |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | locally QV is brecciated by later chlorite veining                              |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | carbonate occurs peripheral to OV core  |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | py is disseminated throughout   |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     |   |          |        |      |  |  |   |   |       |  | I            |   |     |  |
|       |     | 171.7-172   |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     | 3-5% cpy 3% py is brecciated zone with fsp crystals - gz grains                 |          |        |      |  |  |   |   |       |  |              |   |     |  |
|       |     |   |          |        |      |  |  |   |   |       |  |              |   |     |  |

SHEET NO. 3 of 5

5 HOLE NO. STA-2

|          |  |  | T  |              |             |                |  | 7  |  |  |  |  |             | <del></del>                                  | المستحديث     |
|----------|--|--|--|--------------|-------------|----------------|--|--|--|--|--|--|-------------|--|---------------|
| F00      | TAGE   |  |  | SAMPLE       | FC          | OOTAGE         | Ē  |  |  | ASSAY  | rs   |  | <u> </u>    | RECC   | OVERY         |
| FROM     | то   | DESCRIPTION  | ESTIMATE   |              | FROM        | 70             | LEHSTH   |  |  |  |  |  |             | AUN  | SHORT         |
|          | +  | in chl - hm (speculante) matrix same of the crystals have been           | <del>                                     </del> |              | <b></b>     | <del> </del> - | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> |             | <del></del>                                  | ┼             |
|          | 1  | partially replaced by py + hematite (?)                                  | 1  | <b>!</b>     |             | <del> </del>   | 1  | <del>                                     </del> | 1  | <del>                                     </del> | <del>                                     </del> | †  |             | <b></b>                                      | 1             |
| ·        |  | cpy occurs interstitially to the crystals                                | 1  |              | <b>†</b>    | 1              | 1  |  |  |  | <b>†</b>   | 1  |             | <b></b>                                      | 1             |
|          | 1  | py occurs with fc stringers in QV  |  |              |             |                | 1  | <b> </b>   | 1  |  |  |  | <u> </u>    |  |               |
|          | 1  | all the fsp crystals latter albite grains                                |  | i .          |             |                |  | 1  | 1  |  |  | 1  |             |  | 1             |
|          |  |  |  |              |             |                | 1  |  | 1  |  |  |  |             |  |               |
|          |  | 172-174.5  |  |              |             |                | 1  |  |  |  |  |  |             |  |               |
|          |  | Sand seam area   |  |              |             |                |  |  |  |  |  |  |             |  |               |
|          |  | 25% Fe-carbonate in a chloritized schistose zone                         |  |              |             | <u> </u>       |  |  |  |  |  |  |             |  |               |
|          |  |  | •  |              |             |                |  |  |  |  |  |  |             |  |               |
|          | ]  | 174.5 - 182  |  |              |             |                | <u> </u>   |  |  |  |  |  |             |  |               |
|          |  | moderately fc-bearing strongly chloritized                               |  |              |             |                | ł  |  |  |  |  |  |             | <u> </u>                                     |               |
|          |  |  |  | ·            |             | <u> </u>       |  |  |  |  |  |  |             |  |               |
|          |  | 182-194  | <u> </u>   |              | <u> </u>    |                | <u> </u>   |  |  |  |  |  |             |  |               |
|          | <u> </u>   | Fc sericite zone   | 4  |              | <u> </u>    | <u> </u>       | ļ  | <u> </u>   | 1  |  | 1  | 1  |             |  | 1             |
|          | <u> </u>   | 2-3% Q-C veining   | 1  |              |             | L              | <u> </u>   | <u> </u>   |  |  |  |  |             | <u> </u>                                     | <u> </u>      |
|          | <u> </u>   |  |  |              |             | <u> </u>       | 1  | <u> </u>   | <u> </u>   |  | 1  | ļ  | <u> </u>    |  | <u> </u>      |
|          | <u> </u>   | 194-196  |  |              | <b> </b>    | <u> </u>       | <del> </del>                                     | <u> </u>   | <b></b>  |  | ļ  | ļ  | ļ.,,        | <u>                                     </u> |               |
|          |  | Buff-coloured sericitized zone with 5-7% f.g.                            |  |              | <b> </b>    | <u> </u>       | 1  |  | <u> </u>   |  | 1  |  | <u> </u>    |  |               |
|          | <u> </u>   | disseminated py 5 % O-C veining  |  |              |             | <u> </u>       |  | <u> </u>   |  |  | <u> </u>   | <b></b>  | <u> </u>    | <b></b> '                                    | <u> </u>      |
|          | <b>_</b>   | massive section  | <b>-</b>   |              |             | ļ              | ļ  |  | <u> </u>   | <u> </u>   | <b></b>  |  |             |  | ↓             |
|          |  |  |  | <u> </u>     |             |                | ļ  |  | <b>↓</b>   | <u> </u>   |  |  |             |  | <u> </u>      |
|          |  | 196-199  |  | <u> </u>     |             | ļ              | ļ  | <u> </u>   | <del> </del>                                     | <u> </u>   |  |  |             | <u> </u>                                     | <b></b>       |
|          | <u> </u>   | Strongly fc-bearing zone; strongly schistose                             | <b>-</b>   | <u> </u>     |             |                | <u> </u>   | <b> </b>   | <del> </del>                                     | <u> </u>   | ļ  | <u> </u>   | <u> </u>    | <b> </b> '                                   | <u> </u>      |
|          | ↓  | 15-20% sericite patches  | ļ  | <b>!</b>     |             | <b> </b>       |  |  | -  | <u> </u>   | <u> </u>   | ļ <u>.</u>                                       |             | <b> </b>                                     | <del>  </del> |
|          | <del>                                     </del> | 7% Qz + vuggy cbt veining  |  |              |             |                | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <u> </u>   | <b></b>  | ļ  |             | <b></b>                                      | ļ             |
|          | —  | 196-199.7  |  | ļ            | ļ           | ļ              | <del></del>                                      | ļ  | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     |             | <b> </b>                                     | ├──           |
|          | —  | 196-199.7<br>10% f.g. py occurs in fc-host at vein contact + to a lesser | <u> </u>   | ┞──          | <b></b>     |                | <del> </del>                                     | <del> </del>                                     |  | <b>!</b>   | <del> </del>                                     | <del> </del>                                     |             | <b>├</b> ──                                  | ├             |
|          | <del> </del>                                     | extent with the vein itself  | <del>                                     </del> | <b></b>      |             |                | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <b> </b>   | <del>                                     </del> | <del>                                     </del> | <del></del> | <b></b> -                                    | <b>├</b> ──   |
|          | -  | extent with the vern itself  | <del> </del>                                     | <b> </b>     | <b></b>     |                | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     |  | <del> </del>                                     | <del> </del>                                     |             | <b>├</b> ──                                  | <del> </del>  |
|          | <del> </del>                                     | 199.7-200.8  | <del> </del>                                     | <b></b>      | <del></del> |                | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     |  | <del>                                     </del> | <del> </del>                                     | <b>!</b>    | <b></b> -                                    | -             |
|          |  | Strongly sericitized zone with some carbonate veining and 2%             | <del> </del>                                     | <del> </del> | <b> </b> -  | <del></del>    | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <b></b>     | <b>├</b> ──                                  | <del> </del>  |
| <u> </u> | <del> </del>                                     | specks of fc.(fuchsite)  | <del> </del>                                     | <del> </del> |             |                | <del> </del>                                     |  | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del></del> | <b> </b>                                     |               |
|          | <del> </del>                                     | cbt veining is muggy.  | <del>                                     </del> |              |             | <del> </del>   | <del> </del>                                     | <del> </del>                                     | ┼  | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | ļ——         |  | <del> </del>  |
|          | <del> </del>                                     | CDC Verning is muggy.  | <del>                                     </del> |              |             | <del> </del> - | 1  | <del>  -</del> -                                 | <del>                                     </del> |  | <del>                                     </del> | <del>                                     </del> |             |  | <del> </del>  |
|          | <del> </del>                                     | 200.8-214.4  |  |              |             | <del> </del> - | -  |  | <del> </del>                                     | }  |  | <u> </u>   |             | <u> </u>                                     | <del> </del>  |
|          | <del> </del>                                     |  | <del> </del>                                     |              |             | <del> </del>   | <del>                                     </del> | <b> </b>   | <del> </del>                                     | <b>}</b>   | <del> </del>                                     | <del> </del>                                     |             | <b></b>                                      | <del> </del>  |
| L        | <u>.                                    </u>     | Strongly altered fc-bearing zone   |  |              |             | L              | <u> </u>   | <u> </u>    |  |               |

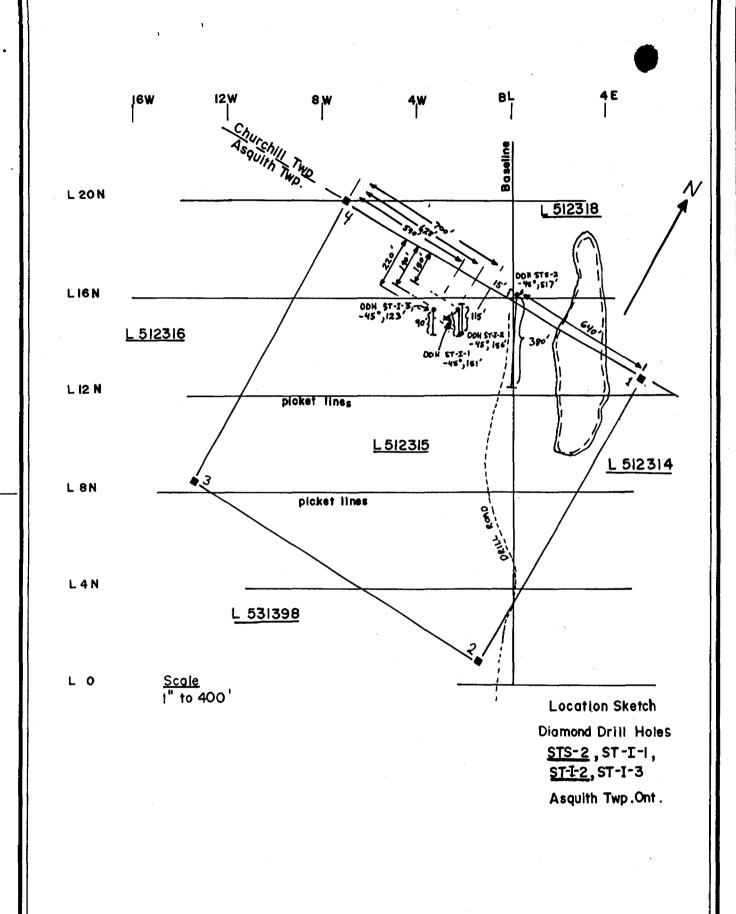
|         |          |   | <u> </u>          |  | SHEET        | NU.  | 4 0  |  |  |  | HOLE N   | 10.  | 31A-2       |  |  |
|---------|----------|---|-------------------|--|--------------|--|--|--|--|--|--|--|-------------|--|--|
| F001    | AGE      |   |                   | SAMPLE   | F            | OOTAGE   |  |  |  | ASSAY  | 'S   |  | ·           | REC  | OVERY  |
| FROM    | то       | DESCRIPTION   | GRADE<br>ESTIMATE |  | FROM         | 70   | LEHSTM   |  |  |  |  |  |             | RUN  | SHORT  |
|         |          | mod. to strongly schistose, fine-grained                        |                   |  |              |  |  |  |  |  |  |  |             |  | T  |
|         |          | 2-5% mainly QV  |                   |  |              |  |  |  |  |  |  |  |             |  |  |
|         |          | 2% fine disseminated f.g. throughout zone                       |                   |  |              |  |  |  |  |  |  |  |             |  |  |
|         |          |   |                   |  |              |  |  |  |  |  |  |  |             |  |  |
|         | <u> </u> | 214.4 to 218.2  | <u> </u>          | <u> </u>   |              |  |  | <u> </u>   |  |  |  |  |             |  |  |
|         |          | Strongly sericitized zone with 15% Q-C veining                  | <u> </u>          | <u> </u>   |              |  |  |  |  |  |  | <u> </u>   |             |  |  |
|         |          | cross cutting zone, veining 2-3" wide in some palces            |                   | <b></b>  |              |  |  | <u> </u>   |  | <u></u>  |  |  |             |  | <u> </u>   |
| <u></u> |          | py is euhedral well formed cubic porphyrablasts associated with | <u> </u>          | <b>!</b>   |              |  |  |  |  |  |  |  | <u> </u>    |  |  |
|         |          | sericite patches - 2-5% minor fc patch and fc specks.           | 1                 | <u></u>  |              | ļ  |  | <u> </u>   |  |  |  | <u> </u>   |             |  |  |
|         |          |   | <u> </u>          |  |              | ļ  | ļ  | <u> </u>   | <b> </b>   |  | <b></b>  |  |             | <u></u>  | <u> </u>   |
| L       |          | 218.2 to 223  | <u> </u>          | ļ  |              | ļ  |  |  | · .  | <b>.</b>   |  |  |             | <u> </u>   |  |
|         |          | fc - bearing zone; strongly schistose                           |                   | <u> </u>   | <u> </u>     | <u> </u>   |  |  |  |  |  | · · ·  |             | <u> </u>   | Ļ  |
|         |          | 1-2% QZ veining   |                   | <b></b>  | <b> </b>     | <u> </u>   |  | <u> </u>   |  |  | <u> </u>   | ļ  |             |  |  |
|         |          | 1-2% py is associated with bl chl observed within QC veining    |                   | <u> </u>   | <u> </u>     | ļ  |  | <del> </del>                                     |  |  | <u> </u>   |  | <u> </u>    |  | <u> </u>   |
| 000     | 071      | D 21  | ļ                 | ļ  | <u> </u>     | <u> </u>   | <u> </u>   |  | ļ  |  | ļ  |  |             |  |  |
| 223     | 271      | Basalt  | <del> </del>      | <b>}</b>   | <u> </u>     | <del>                                     </del> | <u> </u>   | <del> </del>                                     |  |  |  | <u> </u>   | <b>ļ</b>    | <u> </u>   | <u> </u>   |
|         |          | 223-225   | <del> </del>      | <del>                                     </del> | <u> </u>     | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | ļ ———  | <del> </del>                                     |  | <del> </del>                                     |             | <b>-</b>   |  |
|         |          | Strongly sericitized metabasalt; fine-grained                   | <del> </del>      |  | <del> </del> | <u> </u>   |  |  | <del>                                     </del> | <u> </u>   |  | -  |             | <b> </b>   |  |
|         |          | buff- coloured zone massive                                     | 1                 | <b>!</b>   | <del> </del> | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     |  |  |  |             | <b></b>  |  |
| <b></b> |          | 1% specks fc throughout   | <b>!</b>          | <u> </u>   | <u> </u>     | <del> </del>                                     | <del></del>                                      | <del> </del>                                     |  | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> |             |  |  |
|         |          | 1-2% fine qz-cbt veinlets                                       |                   | <u> </u>   |              |  | <del> </del>                                     | <del> </del>                                     |  | <del> </del>                                     | <u> </u>   |  |             |  | <del></del>                                      |
|         |          | 1-2% Time d2-cot verniets                                       | <del> </del>      |  |              | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     | ļ  |  |  |  |             |  | <b></b>  |
|         |          | 225-(228)   | <b>-</b>          |  |              | <u> </u>   | <del> </del>                                     | <del> </del>                                     | <del> </del>                                     |  |  | <del> </del>                                     |             | <b> </b>   | <del> </del> -                                   |
|         |          | Highly fractured - 15% anastomasing Q-C veinlets                |                   |  |              |  | <del>                                     </del> |  |  | <del>                                     </del> |  | <b></b>  |             | <b></b>  | <del> </del>                                     |
|         |          | chld - sericitized metabasalt                                   |                   |  |              | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     |  |  |  |             | <del>                                     </del> | <del> </del>                                     |
|         |          | Vesicular? - vesicles in-filled with chlorite                   |                   |  | Η            | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     |  |  |  | <del> </del>                                     | <del></del> |  | <del> </del>                                     |
|         |          | 1% f.g. py  |                   |  | -            |  |  | <del>                                     </del> | <del> </del>                                     |  | <del>                                     </del> |  |             |  |  |
|         |          | basalt is fairly massive  |                   |  |              |  |  | <del> </del>                                     |  |  |  | <del> </del>                                     |             |  | <del>                                     </del> |
|         |          | Dasaic is rairly massive  |                   | -  |              |  |  | <del> </del>                                     | -  |  |  | <u> </u>   |             |  |  |
|         | 231.7    | 229.5 to 230 1% cpy associated with Q-C hm veining              | 1                 |  | <del></del>  |  | <b></b>  | <b></b>  |  |  |  |  |             |  |  |
|         |          |   |                   |  |              | †  |  |  |  | <del>                                     </del> |  |  |             | •  |  |
| 231-7   | 239.5    | Dyke  | 1                 |  | -            |  | † — — —  |  |  |  | 1  | 1  |             | <b> </b>   |  |
|         |          |   |                   |  |              |  | i –  |  |  |  | <b>—</b> —                                       | <b>!</b>   | 1           |  |  |
|         |          | Contacts are difficult to distinguish                           |                   |  |              |  |  |  |  |  | <b> </b>   | 1  |             |  | <del></del>                                      |
| _       |          | f.g. equigranular massive                                       | 1                 |  |              |  |  | <u> </u>   |  |  |  |  |             |  | <del>                                     </del> |
|         |          | weakly hematized  |                   |  |              |  |  |  |  |  |  |  |             |  | <del></del>                                      |
|         |          |   |                   |  |              |  |  |  |  |  |  | 1  |             |  |  |
|         |          |   | -                 |  | <u> </u>     |  | ·  |  |  | <u> </u>   | <u> </u>   | •  | *           |  |  |

STA-2

HOLE NO.

STA-2

|       |     |  |  |               | SUCE     |  |   |  |  |  | HOLE N   |  | <br>_  |  |
|-------|-----|--|--|---------------|----------|--|---|--|--|--|--|--|--|--|
| F001  | AGE |  |  |               | F        | OOTAGE   |   |  |  | ASSAY  | 'S   |  | REC  | OVERY  |
| FROM  | ТО  | DESCRIPTION 25% biotite, 60-70% altered (hm'd. carb. sericitized) isp                                | GRADE<br>ESTIMATE                                | SAMPLE<br>NO. | FROM     | 70   | LENGTH  |  |  |  |  |  | RUN  | 3H 0R7   |
|       |     | 25% biotite, 60-70% altered (hm'd. carb. sericitized) fsp  |  |               |          |  |   |  |  |  |  |  |  |  |
|       |     | minor qz   |  |               |          |  | <b>1</b>  | -  |  |  |  |  | <br><del>                                     </del> |  |
|       |     | is this dyke feeder to porphyry  |  |               |          |  |   |  |  |  |  | 1  |  |  |
|       |     |  |  |               |          |  |   |  |  |  |  | 1  | 1  |  |
| 239.5 | 271 | Metabasalt   |  |               |          |  |   |  |  |  |  |  |  |  |
|       |     |  | 1  |               |          |  | 1   |  |  |  | 1  |  |  | 1  |
|       |     | Dk green colour: massive f.g.  |  |               |          |  |   |  |  |  | †  |  | <br>1  |  |
|       |     | strongly chloritized with minor epidote after fsp minor hm   |  |               |          | 1  |   |  |  |  |  | <u> </u>   | 1  |  |
| 1     |     | after fsp  |  |               |          |  | 1   |  |  |  |  |  |  |  |
|       |     | 1-2% anastomosing carbonate veining with associated specularite                                      | · .  |               |          | .3   | 1   | ì  |  |  |  | 1  |  |  |
|       |     | minor remob py is associated with veining probably represents basalts flows - no evidence of pillows |  |               |          |  |   |  |  |  |  | 1  | <del></del>  |  |
|       |     | probably represents basalts flows - no evidence of pillows   | 1  |               |          | 1  | <u> </u>  |  |  |  |  |  | <b>!</b>   | 1  |
|       |     |  |  |               |          |  |   |  |  |  | <u> </u>   | <del> </del>                                     | <u> </u>   | <b>—</b>   |
|       |     | 260-271  | 1  |               |          |  |   | <del>                                     </del> |  |  |  |  | <br><b>†</b>   | 1  |
|       |     | Basalt becomes f.g. to aphanitic, very strongly chloritized  |  |               |          |  | 1   |  |  |  | <u> </u>   | <del>                                     </del> | <br><b>1</b>   | 1  |
|       |     | + weakly carbonated  | 1  | i             |          |  |   | <del>                                     </del> |  |  | <b></b>  | <del> </del>                                     | i  | <del>                                     </del> |
|       |     | , weaking car pointed  |  | 1             | <b>†</b> | <del>                                     </del> |   | †  |  |  | <del> </del>                                     | <del>                                     </del> | <br><b></b>  | <del>                                     </del> |
|       | 271 | End of Hole $\Lambda$  | <del>                                     </del> | <b>-</b>      |          | <del> </del>                                     | <del>                                     </del>    |  |  |  | <b>†</b>   | <del>                                     </del> |  | <del>                                     </del> |
|       | 5/1 |  | <b>†</b>   | <b>-</b>      | <b></b>  | <del>                                     </del> | <del>                                     </del>    |  | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | 1  | <del>                                     </del> |
|       |     | 11 A Parry   | 1  | i — — —       |          | <u> </u>   | 1   |  |  |  | <b></b>  | <del>                                     </del> |  | <del>                                     </del> |
|       |     | Kill 1977  | i  |               |          |  | <del> </del>  |  |  |  |  |  | <u> </u>   | <del> </del>                                     |
|       |     | <del></del>  |  |               |          |  | <del>                                     </del>    |  |  |  | <del> </del>                                     | <del> </del>                                     | l ———  |  |
|       |     |  |  |               |          |  |   | <del> </del>                                     |  |  | <del> </del>                                     | <del> </del>                                     | <br><b></b>  | <del>                                     </del> |
|       |     |  |  |               |          | <u> </u>   | <del>                                     </del>    | <del> </del>                                     |  |  | -  | -  | <br>   |  |
|       |     |  | {- <del></del>                                   |               |          | <u> </u>   | 1   | <del> </del>                                     |  |  |  | <del>                                     </del> |  | -  |
|       |     |  |  |               |          | <del> </del>                                     | <del> </del>  | <del></del>                                      |  |  |  |  | <u> </u>   | <del> </del>                                     |
|       |     |  |  |               |          | <del> </del>                                     | <del>                                     </del>    | <del> </del>                                     |  |  |  | <del></del>                                      | <br>l  | <del> </del>                                     |
|       |     |  |  |               |          | <del>                                     </del> | <del> </del>  |  |  |  |  | <del></del>                                      | <br><u> </u>   | <del>                                     </del> |
|       |     |  | <del> </del>                                     |               |          | <del> </del>                                     | <del>                                     </del>    |  |  |  |  |  | <br>   | 1  |
|       |     |  | <b></b>  |               |          | <del> </del>                                     | <del>                                     </del>    |  |  |  | <del> </del>                                     |  | <br><del>                                     </del> | <del> </del>                                     |
|       |     | ·  |  |               |          | <del>                                     </del> | 1   | <del>                                     </del> | <b></b>  |  |  | <del> </del>                                     |  | <del> </del>                                     |
| _     |     |  | <del> </del>                                     |               |          | <b></b>  | <del>                                     </del>    | <del> </del>                                     |  |  |  | <del> </del>                                     | <br><del> </del>                                     | <del>                                     </del> |
|       |     |  |  |               |          | <del> </del>                                     | <del>l .                                     </del> | <del> </del>                                     |  |  | <del> </del>                                     | <del></del>                                      | <br><del></del>                                      |  |
|       |     |  |  |               | -        | <del>                                     </del> | <del> </del>  | <del> </del>                                     |  |  | <del></del>                                      | <del> </del>                                     |  |  |
|       |     |  |  | _             |          | <del>                                     </del> | <b></b>   |  |  |  |  |  |  |  |
|       | ļ   |  |  |               |          | ├  |   |  | <b>—</b> —                                       |  | ļ  | <del> </del>                                     | <b>-</b>   | <b> </b>   |
|       |     |  |  |               |          | ├  |   | <u> </u>   |  |  | ļ  | <del> </del>                                     |  | <b></b> _  |
|       |     |  |  |               |          | ļ  |   | <del></del>                                      |  |  | <u> </u>   |  |  | <b> </b>   |
|       |     |  | <u> </u>   |               | L        | <u> </u>   | <u> </u>  | L  |  |  | <u> </u>   | 1  | <u> </u>   |  |



TIMMINS GOLD

T G RESOURCES LTD.

SHINING TREE I PROPERTY

|         | <del></del> |           |                        |                         |                           |
|---------|-------------|-----------|------------------------|-------------------------|---------------------------|
|         | DIP TEST    |           | LEVEL L512318 - 512315 | ELEVATION               | HOLE No. STS-2            |
| FOOTAGE | AN          | GLE       | LOCATION L16+60N       | BEARING 150°            | SHEET No. 1 of 7          |
|         | RECORDING   | CORRECTED | SECTION 0+4SE          | LENGTH 517'             | LOGGED BY A. Born         |
|         |             |           | LATITUDE               | CORE SIZE BQ            | PURPOSE E-Wintersect sect |
|         |             |           | DEPARTURE 450          | FINISHED Sept. 13-16/81 | TOT. RECOVERY             |
|         |             |           |                        |                         |                           |

| -                 | _        |   | DEFARTO           |          |       |          | MISITE   |          |       |   |  |   |          |          |
|-------------------|----------|---|-------------------|----------|-------|----------|----------|----------|-------|---|--|---|----------|----------|
| FOOT              | AGE      |   |                   |          | OOTAG | Ε        |          |          | ASSAY | S |  |   | RECO     | VERY     |
| FROM              | то       | DESCRIPTION   | GRADE<br>ESTIMATE | <br>FROM | To    | LENGTH   |          |          |       |   |  |   | RUN      | SHO#T    |
| 0                 | 10       | CASING  |                   |          |       |          |          |          |       |   |  |   |          |          |
|                   |          |   |                   |          |       |          |          |          |       |   |  |   |          |          |
| 10                | 80       | Silicified Sericitized Alteration Zone "Rhyolite"   |                   |          |       |          |          |          |       |   |  |   | ļ        | <u> </u> |
|                   |          | •   |                   |          |       |          |          |          |       |   |  |   | <b>]</b> | <b></b>  |
|                   |          | Buff-coloured, fine-grained, massive except where host is   |                   |          |       |          | <u> </u> |          |       |   | -, - , - · · · · · · · · · · · · · · · · |   | ļ        |          |
| <b> </b> i        |          | brecciated by intense quartz carbonate veining  |                   |          |       | <u> </u> | ļ        |          |       |   |  |   |          |          |
| <b> </b>          |          | very brittle nature - cross cut by hairline fractures ( - 10%)  |                   |          |       |          |          | <u> </u> |       |   |  |   | L        |          |
|                   |          | mainly qz-cht veinlets as well as black chlorite hairline   |                   |          |       | ļ        |          |          |       |   |  |   |          |          |
|                   |          | fractures veinlets are predominately - 45° to CA up to 2%   |                   |          |       |          | ļ        |          |       |   |  |   |          |          |
| <b></b>           |          | finely disseminated pyrite throughout host rock qz: cbt veining   |                   |          |       | <u> </u> |          |          |       |   |  |   |          |          |
|                   |          | at:   |                   |          |       | 1        |          |          |       |   |  |   |          |          |
|                   |          | 25.8 -26.5 parallel to C.A.   |                   |          |       |          | <u> </u> |          | •     | · |  |   |          |          |
| <b></b>           |          | 28-29 QV with minor py  |                   |          |       | <u> </u> | <u> </u> |          |       |   |  |   |          |          |
| $\longrightarrow$ |          | 44.8 - 46: moderately brecciated host with finely dissem  |                   |          |       |          | <u> </u> |          |       |   |  |   |          |          |
| $\Box$            |          | py - black chlorite veining is post Qz-cbt veining  |                   |          |       |          |          |          |       |   |  |   |          |          |
|                   |          | 51-518 OV with bl chl veining   |                   |          |       |          |          |          |       |   |  |   |          |          |
|                   |          | 63-63.5 black chl - filled fractures with py  |                   |          |       |          | 1        |          |       |   |  |   |          |          |
|                   |          | 67-80 strongly silicified sericitized zone with py dissem   |                   |          |       |          |          |          |       |   |  |   |          |          |
|                   |          | throughout host and along fracture places   |                   |          |       |          |          |          |       |   |  |   |          |          |
| igsquare          |          |   |                   |          |       |          |          |          |       |   |  |   |          |          |
| 80                | . 86     | Hematized - Silicified - Sericitized Host   | -                 |          |       |          |          |          |       |   |  |   |          |          |
|                   |          |   |                   |          |       |          |          |          |       |   |  |   |          |          |
|                   |          | Host becomes moderately hematized with 1-2% py in groundmass where host is more intensely veined - host becomes |                   |          |       |          | 1        |          |       |   |  |   |          | <u></u>  |
|                   |          |   |                   |          |       |          | <u> </u> |          |       |   |  |   |          | <u> </u> |
|                   |          | strongly silicified   |                   |          |       |          |          |          |       |   |  |   |          |          |
|                   | <u>_</u> |   |                   |          |       |          | 1        |          |       |   |  |   |          |          |
| 86                | 102      | Chloritized - Silicified - Sericitized Host   |                   |          |       |          |          |          |       |   |  |   |          |          |
|                   |          |   |                   |          |       |          |          |          |       |   | -  |   |          |          |
| $\Box$            |          | Host rock becomes slightly chloritized with sections of seric   |                   |          |       |          |          |          |       |   |  |   |          |          |
|                   |          | - silic 2-3% py   |                   |          |       | 1        |          |          |       |   |  |   |          |          |
|                   |          | 92-92.7 5% py in silicified - hm'd zone   |                   |          |       |          |          |          |       |   |  |   |          |          |
|                   |          |   |                   |          | 1     |          |          |          |       |   |  |   |          |          |
| 102               | 132      | Sericitized - Silicified Host   |                   |          |       | 1        |          |          |       |   |  | • |          |          |
|                   |          |   |                   |          |       |          | 1        |          |       |   |  |   |          |          |
|                   |          |   |                   | <br>     |       |          |          |          |       |   |  |   |          |          |

SHEET NO. 2 of

2 of 7

OLE NO.

STS-2

| FOOT  | AGE   |  |                   |               | FC   | OTAGE |        |         |   | ASSAY | 'S       | - | · | RECO | OVERY |
|-------|-------|--|-------------------|---------------|------|-------|--------|---------|---|-------|----------|---|---|------|-------|
| FROM  | то    | DESCRIPTION  | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM | TO    | LENGTH |         |   |       |          |   |   | RUH  | SHORT |
|       |       | Buff coloured, massive, intensely fractured  |                   |               |      |       |        | <b></b> |   |       |          |   |   |      | †     |
|       |       | < 0.5% py in host  |                   |               |      |       | 1      |         |   |       |          |   |   |      |       |
|       |       | veining consists of sericite, bl chl, cbt + qz   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       |  |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | 125.2 to 128   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | lt green yellow coloured schistose zone schitosity - 50° to CA   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | very sericitized - defining schistosity but also very  | ÷                 |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | carbonated; minor blackwall chlorite tr py contacts are somewhat   |                   |               |      |       | ł      |         |   |       |          |   |   |      |       |
|       |       | brecciated with sericitized zone.  |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       |  | -                 |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | 128 to 132   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | Strongly silicified - sericitized zone - buff - coloured   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | massive but intensely fractured - brecciated locally by  |                   |               |      |       |        |         |   |       | 1        |   |   |      |       |
|       |       | qz-cbt veining and bl chl hairline fractures 1% finely dissem  |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | py along fractures and in groundmass   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       |  |                   |               |      |       |        |         |   |       | ·        |   |   |      |       |
|       |       | 0132   |                   |               |      |       |        | 1       | 1 |       |          |   | 1 |      |       |
|       |       | lower contact marked by py veining   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       |  |                   |               |      |       |        |         |   |       |          |   |   |      | ·     |
| 132   | 133.3 | Hematized - Silicified Host  |                   |               |      |       |        |         |   |       | 1        |   |   |      |       |
|       |       |  |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | intensely fractured by bl chl veinlets   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | minor remobilized py in these veinlets   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | ·  |                   |               |      |       |        |         |   |       |          |   |   |      |       |
| 133.3 | 140.5 | Possibly Andesite Dyke   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       |  |                   |               |      |       | 1      |         | 1 |       | 1        | 1 |   |      |       |
|       |       | Chloritized med green colour and strongly carbonated minor black chlorite veinlets   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | minor black chlorite veinlets  |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | possibly some fuchsite (or Cu-stain) associated with veining   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | at 140.5   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
| 140.5 | 182   |  |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | Intensely fractured with py cubes occurring along fracture   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | planes; minor chl + hm patches   |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       |  |                   |               |      |       |        |         |   |       |          | 1 |   |      |       |
|       |       | 152.5  |                   |               |      | -     |        |         |   |       |          |   |   |      |       |
|       |       | Specularite hm in veining  |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       |       | py is generally associated with bl chl veinlets  |                   |               |      |       |        |         |   |       |          |   |   |      |       |
|       | -     | IN A COLUMN TO THE PART OF THE |                   |               |      |       |        | <b></b> |   |       | <b>t</b> |   |   |      |       |

|         |       |   | •                 |               | SHEET    | NO.          | 3 of          | 7   |  |          | HOLE     | ₩.            | STS-2    |          |          |
|---------|-------|---|-------------------|---------------|----------|--------------|---------------|---|--|----------|----------|---------------|----------|----------|----------|
| F001    | TAGE  |   |                   |               | F        | OOTAGE       | <u> </u>      |   |  | ASSAY    | rs       |               |          | RECO     | OVERY    |
| FROM    | то    | DESCRIPTION   | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM     | Te           | LENGTH        | :   |  |          |          |               |          | Run      | SHORT    |
| 182     | 212   |   |                   |               |          | <del> </del> | † <del></del> |   | <del>                                     </del> |          | †        | † <del></del> |          |          | <b>†</b> |
|         |       | med green colour contacts are distinct                                  |                   | 1             |          | 1            | 1             |   |  |          | 1        | 1             | 1        |          |          |
|         |       | slightly carbonated with $10\% 	extstyle < 1$ mm cbt eyes in groundmass |                   | 1             |          |              |               |   |  |          |          | 1             |          | 1        |          |
|         |       | minor cbt veining   |                   |               |          |              |               |   | 1  |          |          |               |          |          |          |
|         |       |   |                   |               |          |              |               |   |  |          |          |               |          |          |          |
|         |       | 184.1 to 212  |                   |               |          |              |               |   | Ī  |          |          |               | <u> </u> |          |          |
|         |       | dk grey red colour, massive   | •                 |               |          |              |               |   |  |          |          |               |          |          |          |
|         |       | slightly hm'd and chl'd - looks mainly silicified                       |                   |               |          | L            |               |   | I  |          |          |               |          |          |          |
|         |       | 5% qz cbt veining with some bl chl veining locally where sections       |                   |               |          |              |               |   |  |          |          |               |          |          |          |
|         |       | appear to be more chl'd if is strongly cbt'd - 15% f.g cbt in           |                   |               |          |              |               |   |  | l        |          | I             |          |          |          |
|         |       | groundmass  |                   |               |          |              |               |   | Ţ  |          |          |               |          |          |          |
|         |       |   |                   |               |          |              |               |   | Ī  |          |          |               |          |          |          |
| 212     | 236   | Silicified - Serizitized Host   |                   |               |          |              |               |   |  |          | }        |               | ł        |          |          |
|         |       |   |                   |               |          |              |               |   | Ι  |          |          |               |          |          |          |
|         |       | Very strongly sericitized and silicified zone                           |                   | 1             |          |              |               |   |  |          |          |               |          |          |          |
|         |       | 212-213   |                   |               |          |              |               |   | I  |          |          |               |          |          |          |
|         |       | blood red colour - hm'd   |                   |               |          | L            |               |   |  |          |          |               |          |          |          |
|         |       | 213-226   |                   |               |          |              |               |   |  |          |          |               |          |          |          |
|         |       | buff-coloured to yellow-green-colour                                    |                   |               |          | <u> </u>     |               |   |  |          |          |               |          |          |          |
|         |       | fairly massive and homogeneous  |                   |               |          |              |               |   |  | I        |          |               |          |          |          |
|         |       | 5-7% finely disseminated pyrite along fratures and in groundmass        |                   |               |          |              |               |   |  | İ        |          |               |          |          |          |
|         |       | 2-3% Qz-cbt veining and minor bl chl veining                            |                   |               |          | <u> </u>     |               |   |  |          |          |               |          |          |          |
|         |       | @215 bl chl veinlet is parallel to CA                                   |                   |               |          | <u> </u>     |               |   |  |          |          |               |          |          |          |
|         |       |   |                   |               |          |              | <u> </u>      |   |  |          |          |               |          | 1        |          |
|         |       | 226-236   |                   |               |          |              |               |   | i  |          |          |               |          |          |          |
|         |       | brecciated zone due to intense veining 10-25% of mainly                 |                   |               |          |              |               |   |  |          |          | 1             |          |          |          |
|         |       | bl chl veining - veining occurs along slip planes and tensional         |                   |               |          | <u> </u>     | <u> </u>      |   | <u> </u>   |          |          | <del> </del>  |          | <u> </u> |          |
|         |       | fractures perpendicular to the main vein                                |                   | <u> </u>      |          | <u> </u>     | <u> </u>      |   | <u> </u>   |          | <u> </u> | <u> </u>      | <u> </u> | <u> </u> |          |
|         |       |   |                   |               |          |              | <u> </u>      | <u> </u>                                      | <u> </u>   | 1        |          | <u> </u>      |          |          |          |
| <u></u> |       | 5-7% remobilized py along bl chl veinlets minor Q-C veinlets            |                   |               |          | ļ            |               |   |  | <u> </u> | <u> </u> | <u> </u>      | <u> </u> |          | 1        |
|         |       |   |                   | <u> </u>      |          |              | <u> </u>      |   | <b>!</b>   |          | ļ        | <u> </u>      | <u> </u> |          | <u> </u> |
| 236     | 23/.5 | Mafic Dyke  |                   | <b>]</b>      | <u> </u> |              | <u> </u>      | ļ <u>.</u>                                    | <u> </u>   |          |          | <u> </u>      | <u> </u> |          |          |
|         |       |   |                   | <b></b>       |          |              | <u> </u>      | <b> </b>                                      |  |          | ļ        | <u> </u>      |          | <u> </u> | <u> </u> |
|         |       | Black colour  |                   |               |          |              | <u> </u>      | <u> </u>                                      |  |          | <u> </u> | <u> </u>      |          |          |          |
|         |       | strongly chloritized  |                   | ļ             |          |              | <u> </u>      | <u> </u>                                      | L  |          | 1        | <u> </u>      |          |          | <u> </u> |
|         |       |   |                   |               |          | <u> </u>     |               | <u>, , , , , , , , , , , , , , , , , , , </u> | <u> </u>   |          | 1        |               |          |          |          |
| 237.5   | 247   | Brecciate Zone  |                   |               |          |              |               |   | L  |          | <u> </u> | ļ             | 1        |          | <u> </u> |
|         |       |   |                   | <u> </u>      |          | ]            |               |   | <u> </u>   | <u> </u> | 1        | 1             |          |          | 1.       |

HOLE NO. STS-2

| <del></del> |       |   |  |  |             |  |  |  |  |  | HOLER  |  |      |  |
|-------------|-------|---|--|--|-------------|--|--|--|--|--|--|--|------|--|
| FOOT        | AGE   |   | GRADE  | SAMPLE   | FC          | OOTAGE   | <b>E</b>   |  |  | ASSAY  | 'S   | _  | RECO | OVERY  |
| FROM        | то    | DESCRIPTION   | ESTIMATE   |  | PROM        | то   | LENGTH   |  |  |  |  |  | RUM  | SHORT  |
|             |       | Stockwork removilized py along bl cal fractures in sil-ser host         | <del> </del>                                     |  | <del></del> |  |  | <del> </del>                                     |  |  |  | <del> </del>                                     | ==== |  |
|             |       | occurrence removirized by along by an in accures in our mose            | <del> </del>                                     |  |             |  | <del> </del>                                     |  | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | -  |      |  |
| 247         | 268.1 | Sericitized - Silicified Host   | <b></b>  | <del></del>                                      |             |  | <del> </del>                                     |  |  | -  |  | <del>                                     </del> |      |  |
| 2 17        | -00.1 | 06176701264 0117617764 11000  | <del> </del>                                     | <del>                                     </del> |             |  | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     |  | <del>                                     </del> | <del> </del>                                     |      |  |
|             |       | Less fractured and veined than above zone                               |  | <del>                                     </del> |             |  | <del>                                     </del> | 1  |  | <del> </del>                                     | -  | <del>                                     </del> |      | <del> </del>                                     |
| }           |       | 1-2% finely dissem. py  | <del>                                     </del> | <del> </del>                                     |             | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     | <del> </del>                                     | <br> | <del> </del>                                     |
|             |       | 1-2% tillety dissemi by   | <del> </del>                                     | l  |             | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     | <u> </u>   | <del>                                     </del> | <del> </del>                                     | -  |      | <del></del>                                      |
|             |       | 262.8 - 268.1   |  |  |             | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> |  |  | <del>                                     </del> | <del> </del>                                     | <br> |  |
|             |       | zone becomes more strongly hm'd   |  | -  |             | <del></del>                                      | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     | <del>                                     </del> |      |  |
|             |       | still silicified 2-3% carb-qz-chl veinlets                              |  |  | <b>†</b>    |  | <u> </u>   |  |  | <del>                                     </del> | <br>   |  |      |  |
|             |       | 2-3% py along veinlets as well as in groundmass                         |  |  |             | <del>                                     </del> |  | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del>                                     </del> | <del> </del>                                     |      |  |
|             |       | = 0.0 p.j whong remited we have do in groundings                        |  | <u> </u>   |             | <del> </del>                                     | <b>†</b>   | <del>                                     </del> |  |  |  | <del> </del>                                     |      | <del>                                     </del> |
| 268         | 270.9 | Andesitic - Basalitic_Dyke  |  | <u> </u>   |             |  | t  | 1  |  | <del>                                     </del> |  |  |      |  |
| 200         |       |   |  | 1  |             | <del>                                     </del> | 1  | 1  |  | <del> </del>                                     |  |  |      |  |
|             |       | med grained   |  | Î  |             |  |  |  |  |  |  | <del> </del>                                     |      | <u> </u>   |
|             |       | contacts are distinct but not chilled nor straight                      |  |  |             |  |  |  |  |  | <del> </del>                                     |  |      |  |
|             |       | 25% f.g. cbt in groundmass  |  |  |             |  |  |  |  |  | 1  |  |      |  |
|             |       | 500 1191 000 111 91 04119111400   |  |  |             | <u> </u>   |  |  |  |  |  |  |      |  |
| 270.9       | 282   | Silicified Host + Hematized   |  | <b>†</b>   |             | İ  |  |  |  |  | i  |  |      | -  |
|             |       | strongly hematized  |  |  |             |  | 1  |  |  |  |  |  |      |  |
|             |       | f.g. massive brittle nature   |  |  |             | 1  |  |  |  |  |  |  |      |  |
|             |       | 2-3% hairline fractures infilled by qz-cbt                              |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       | minor black chl veining   |  |  |             |  | 1  |  |  |  |  |  |      |  |
| -           |       | minor pyrite remote - recrystallized in veining                         |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       |   |  |  |             |  |  |  |  |  |  |  |      |  |
| 282         | 297   | Silicified - Sericitized Host   |  |  |             |  |  |  |  |  |  | _  |      | , <del></del> :                                  |
|             |       |   |  |  |             |  |  |  |  |  |  |  |      | <del></del>                                      |
|             |       | yellow green to buff coloured zone                                      |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       | 20-25% v. f.gr carbonate in groundmass<br>slightly schistose - 20 to CA |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       | slightly schistose - 20° to CA  |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       | some strongly silicified (pale yellow) sections which have              |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       | been cross cut and displaced by qz-cbt-chl veinlets                     |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       | minor py in qz eyes - 290'  |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       |   |  |  |             |  |  |  |  |  |  |  |      |  |
| 297         | 299   | Brecciated Zone   |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       |   |  |  |             |  |  | ,  |  |  |  |  |      |  |
|             |       | Intense brecciation caused by chl veining fragmental appearance         |  |  |             |  |  |  |  |  |  |  |      |  |
|             |       |   |  |  |             |  |  |  |  |  |  |  |      |  |

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HOLE NO.

| FOOT     | AGE   |  | GRADE    | SAMPLE | FC   | DOTAGE |  |              |   | ASSAY        | 'S   |   | · | RECO | VERY       |
|----------|-------|--|----------|--------|------|--------|--|--------------|---|--------------|--|---|---|------|------------|
| FROM     | то    | DESCRIPTION  | ESTIMATE |        | FROM | 76     | LENGTH   |              |   |              |  |   |   | RUN  | SHORT      |
| 299      | 318.8 | Sericitized - Silicified Host                                    |          |        |      |        |  | <del> </del> |   |              |  |   |   |      |            |
|          |       |  |          |        |      |        |  | <del></del>  | l | <b> </b>     | <b>†</b>   | l |   |      |            |
|          |       | Buff coloured massive, fine grained                              |          |        |      |        |  |              |   | <b>-</b>     |  |   |   |      |            |
| <b>!</b> |       | minor veining mainly carbonate veining 1-2%                      |          |        |      |        | <del>                                     </del> | <b>†</b>     |   |              | <del>                                     </del> |   |   |      |            |
|          |       | 200.8 3% cpy along cbt veining                                   |          |        |      |        |  |              |   | <del> </del> | <del></del>                                      |   |   |      |            |
|          |       | 317-318.8 minor bx by cbt veining tr cpy                         |          |        |      |        | <del>                                     </del> |              |   |              | <del> </del>                                     |   |   |      |            |
|          |       | minor carbonate in groundmass                                    | •        |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | bx at 309 - flow top breccia                                     |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       |  |          |        |      |        |  |              |   |              |  |   |   |      |            |
| 318.8    | 322   | Mafic Dyke   |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       |  |          |        |      |        |  |              |   |              | 1  |   |   |      |            |
|          |       | Fine grained strongly chloritized                                |          |        |      |        |  |              | , | 1            |  |   |   |      |            |
|          |       | contacts - broken core   |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       |  |          |        |      |        |  |              |   |              |  |   |   |      | <b>—</b> , |
| 322      | 377.4 | Sericitized Host   |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       |  |          |        |      |        |  |              |   | i            |  | 1 |   |      |            |
|          |       | Strongly sericitized zone with very silicified patches (pale     |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | yellow in colour, aphanitic) flow contacts @ 324 - 20° CA        |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       |  |          |        |      |        |  |              |   |              |  |   |   |      | `          |
|          |       | 336-337  |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | core angle changes to - 45° CA                                   |          |        |      |        |  |              | - |              |  | 1 |   |      |            |
|          |       | 342-344  |          |        |      |        |  |              |   | 1            |  |   |   |      |            |
|          |       | strongly silicified zone with amygdules infilled by qtz cbt + py |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       |  |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | 344 - 349.5  |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | massive with 2-3% carbonate veinlets                             |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | 1-2% py throughout   |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | ·  |          |        |      |        |  |              | · |              |  | - |   |      |            |
|          |       | 349.5 to 351 and 355.8 to 357                                    |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | v. strongly chloritized sections which gradate into sericitized  |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | carbonated zones   |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | 5% hairline veinlets of carbonate                                |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       |  |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | 357-377.4  |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | v. strongly silicified section - pale yellow green with some     |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | sericitized sections @371-377 silicified sections contain        |          |        |      |        |  | :            |   |              |  |   |   |      |            |
|          |       | qtz eyes which are infilled partially by pyrite 5%               |          |        |      |        |  |              |   |              |  |   |   |      |            |
|          |       | sl schistose ~45° CA   |          |        |      |        |  |              |   |              |  |   |   |      |            |

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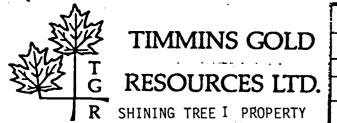
HOLE NO.

|          |      |   | نييو التسميد التيارية |        | SHEET    |          |          |  |          |          | HOLER |          |   |          |          |
|----------|------|---|-----------------------|--------|----------|----------|----------|--|----------|----------|-------|----------|---|----------|----------|
| F00      | TAGE |   |                       | SAMPLE | F        | OOTAGE   |          |  |          | ASSAY    | S     |          |   | REC      | OVERY    |
| FROM     | то   | DESCRIPTION .   | GRADE<br>ESTIMATE     |        | FROM     | 70       | LEHSTH   |  |          |          |       |          |   | RUN      | -        |
|          |      | 3/1 - 3//.4   |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | more sericitized section  | 1                     | 1      |          |          |          | 1  |          |          |       | 1        |   |          | 1        |
|          |      | 25% qz-cbt anastomosing veinlets                                  |                       | 1 -    | <b></b>  |          |          |  |          |          |       |          |   | 1        | $\top$   |
|          |      | minor py generally associated with bl chl veinlets                |                       |        |          |          |          |  |          |          |       |          | - |          |          |
|          |      |   |                       |        |          |          |          |  |          |          |       |          |   |          | 1        |
| 377.4    | 384. | 5 Remobilized Zone  |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      |   |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | Zone of intense qz-cbt veining - bl chl veinlets fuchsite -       | <u> </u>              |        | <u> </u> | <u> </u> | 1        | <u> </u>                                     | <u> </u> |          |       |          |   |          | 1        |
|          |      | bearing   |                       |        |          | <u> </u> |          | <u>l</u>                                     | <u> </u> |          |       |          |   |          |          |
| <u> </u> |      | 25% to qz-cbt veining in fc + chl groundmass                      | <u> </u>              |        |          |          | <u> </u> |  |          |          |       |          |   |          | 1        |
|          |      | minor py associated with black chlorite                           |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      |   |                       |        |          |          |          |  |          |          |       |          |   |          |          |
| 384.5    | 468  | Basaltic - Andesite Flow (or Dyke)                                |                       |        |          |          |          |  | 1        |          |       |          |   |          |          |
|          |      |   |                       |        |          | <u> </u> | <u>]</u> |  |          |          |       |          |   |          |          |
|          |      | Med. grained crystallinity is poor due to patchy alteration -     |                       |        |          | }        |          |  |          |          |       |          |   |          |          |
|          |      | <u>sericitization - epidote-zoisite alteration of feldspar + </u> |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | chl of mafic minerals   |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | 2-3% qz-cbt veinlets  |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | where qz veining present fc is also present                       |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | is host source of Cr ?  |                       |        |          |          |          |  |          |          | 1     |          |   |          |          |
|          |      | minor remob py in carbonate veining                               |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | numerous remobilized zones due to intense qz cbt veining -        |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | black chlorite, sulphides appear to be absent                     |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | carbonate -peripheral to gz core in veining                       |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | carbonate is vuggy  |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      |   |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | 421-445   |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | Schistose black v. strongly chloritized and weakly moderately     |                       |        |          |          |          |  |          |          |       |          |   | <u> </u> |          |
|          |      | carbonated rock   |                       |        |          |          |          |  |          |          |       |          |   | ł        |          |
|          |      | generally fine grained  |                       |        |          |          | <u> </u> |  |          |          |       |          |   |          |          |
|          |      | 1-2% cbt-qz veining - pinch and swell pods                        |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      |   |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | 425-445   |                       |        |          |          |          | 1  |          |          |       |          |   |          |          |
|          |      | ground core   |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      | 445-446   |                       |        |          |          |          |  |          |          |       |          |   |          |          |
|          |      |   |                       |        |          |          | <b> </b> | <u>.                                    </u> |          | <u> </u> |       |          |   | <b>D</b> | <u> </u> |
|          |      | qz-cbt veining in bl chl and tc -bearing host                     |                       |        |          |          |          |  |          | <u> </u> |       |          |   |          | <u> </u> |
|          |      |   |                       |        | <u> </u> | <u> </u> | <u> </u> | <u></u>                                      |          |          | l     | <u> </u> |   |          | 1        |

SHEET NO. 7 of 7

| HOLE | NO. | STS-2 |
|------|-----|-------|
|      |     |       |

|          |              |   |  |            |  |              |  |  |             |              | HOLL   |  |  |  |
|----------|--------------|---|--|------------|--|--------------|--|--|-------------|--------------|--|--|--|--|
| F001     | AGE          |   | GRADE  | SAMPLE     | FC   | OTAGE        |  |  |             | ASSAY        | 'S   |  | REC  | OVERY  |
| FROM     | то           | minor cpy associated with qz veining.                             | ESTIMATE   |            | FROM   | тө           | LENSTH   | -  |             |              |  |  | RUM  | SHORT  |
|          |              | minor cpy associated with qz veining                              |  |            |  |              |  | <del></del>                                      |             |              |  |  |  | +  |
|          |              | minor hm veinlets   |  |            |  |              |  |  | 1           |              |  | 1  | <b></b> -  |  |
|          |              |   | j  |            |  |              |  |  |             |              |  |  |  |  |
| 446      | 517          | Talcose Mafic Komatiite/Mg-Rich Basalts                           |  |            |  |              |  |  |             |              |  |  |  |  |
|          |              |   |  |            |  |              |  |  |             |              |  |  |  |  |
| L        |              | Rock becomes more homogeneous massive talcose nature black colour |  |            |  | <u></u>      |  |  |             |              |  |  |  |  |
|          |              | 1-2% hairline fractures, infilled by cbt + qz minor py cubes      |  | <b> </b>   | <b>!</b>   | <u> </u>     | <u> </u>   | <b></b>  | <u> </u>    |              | <u> </u>   | <b></b>  | <u> </u>   |  |
| <u> </u> |              | in host -   |  |            | ļ  |              | ļ  | <u> </u>   |             | ļ            |  | ļ  | <u> </u>   | <u> </u>   |
|          | ļ            |   | ļ  | <b></b>    | ļ  |              |  | <u> </u>   |             | ļ <u>.</u>   |  | ļ  |  | <u> </u>   |
| <b></b>  |              | 449-451   | ļ  | <u> </u>   | <del> </del>                                     | <b> </b>     |  |  | ļ           | <b> </b>     |  | <b> </b>   | <br><u> </u>                                     |  |
|          |              | ground core   |  | <u> </u>   | -  |              | -  | <b> </b>   |             | ļ            | <b> </b>   | <del> </del>                                     | <b> </b>   | <u> </u>   |
|          |              | 468-517   |  | <b>}</b>   | <u> </u>   |              |  | <del> </del> -                                   | ļ           |              |  |  |  | <b>├</b> ──                                      |
|          |              | veining 10-45° to CA  |  | <b> </b> - | -  |              |  | <del> </del>                                     |             |              |  |  | <br><del> </del>                                 | <del> </del>                                     |
|          |              | locally becomes med-gr sericitized and carbonated                 |  |            | <del> </del>                                     | <del> </del> | <del>                                     </del> | -  |             | <del> </del> | <del> </del>                                     | <del> </del>                                     | <b></b>  | <del> </del>                                     |
| -        | <del> </del> | whole unit is fairly carbonated                                   | <del>                                     </del> |            | <del>                                     </del> |              | <del> </del>                                     | <del> </del>                                     |             | -            | <del> </del>                                     | <del> </del>                                     | <del>                                     </del> | <del> </del>                                     |
|          |              | tr py along fracture planes                                       |  | <b></b>    | İ  | İ            | 1  |  | <del></del> |              | <del>                                     </del> | <del>                                     </del> | <br>   |  |
|          |              | c. by along tradeare pranes                                       |  | 1          | <del>                                     </del> |              | <b>†</b>   | <del>                                     </del> | -           |              | <b>-</b>   | <del> </del>                                     | <b></b>  | <del>                                     </del> |
|          | 517          | End of Hole   |  |            |  | <b>i</b>     |  |  |             |              |  |  |  | <b></b>  |
|          | V 2.         |   |  |            |  |              |  |  |             |              |  |  |  | $\vdash$   |
|          |              | 27 boxes  |  |            |  |              | 1  |  |             |              | 1  |  | <u> </u>   |  |
|          |              | Lety Jan  |  |            |  |              |  |  |             |              |  |  |  |  |
|          |              | few 17.   |  |            |  |              |  |  |             |              |  |  |  |  |
|          |              |   |  |            |  |              |  |  |             |              |  |  |  |  |
|          |              |   |  |            |  |              |  |  |             |              |  |  |  |  |
|          |              |   |  |            |  |              |  |  |             |              |  |  |  |  |
|          |              |   |  |            | <b> </b>   | ļ            |  | ļ  |             |              | ļ  |  | <u> </u>   |  |
|          |              |   |  |            |  | <u> </u>     | 1  |  |             | ļ            |  | <u> </u>   | <br>   |  |
|          |              |   |  |            |  | <b> </b>     |  | <u> </u>   | ļ           | <u> </u>     | <u> </u>   | <b> </b>   | <br><b> </b> !                                   |  |
| ļ        |              |   |  |            |  | <u> </u>     |  | <b></b>  |             | ļ            | ļ  | <b>└</b> ──                                      | <br>   | <u> </u>   |
|          |              |   |  |            | <u> </u>   | ļ            | ļ  |  |             | ļ            | <u> </u>   | ļ  | <br><b> </b>                                     | <b></b>  |
|          |              |   |  |            |  | ļ            |  |  | ļ           | <u> </u>     | <b>.</b>   |  | <b> </b>   |  |
|          |              |   |  |            | 1  | <u> </u>     |  | <b></b>  | <b> </b>    |              |  |  | igwdapprox igwedge                               | <b></b>  |
|          |              |   |  |            |  | <u> </u>     |  |  |             | ļ            |  |  | <br><u> </u>                                     | <del> </del>                                     |
|          |              |   |  |            | -  | ļ            |  |  | <b> </b>    |              |  | ļ  |  | <b> </b>   |
| <u> </u> |              |   |  |            | ļ  | ļ            | <del>                                     </del> | <u> </u>   |             | <del> </del> | <del> </del>                                     | <del> </del>                                     |  | <b></b>  |
|          |              |   |  |            |  |              |  | <b> </b> -                                       |             |              | ļ  |  | <br>   | <b></b>  |
| <u> </u> |              |   |  | L          | <u> </u>   |              |  | <u></u>  | L           | L            | I  | 1  | <u> </u>   | <u></u>  |



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| RUDEBIA |   |

|         |           |           |                  | <u> </u>             | & 313               |
|---------|-----------|-----------|------------------|----------------------|---------------------|
| _       | DIP TEST  |           | LEVEL            | ELEVATION            | HOLE No. STI-2      |
| FOOTAGE |           | GL E      | LOCATION L14+83N | BEARING 3500         | SHEET No. 1 of 4    |
|         | RECORDING | CORRECTED | SECTION 1±56 M   | LENGTH 156'          | LOGGED BY A. Born   |
|         |           |           | LATITUDE         | CORE SIZE XRT        | PURPOSE Exploration |
|         |           |           | DEPARTURE - 40°  | FINISHED March, 1981 | TOT. RECOVERY       |

|             |      | N SHINING TREE I PROPERTY                                     | DEPARTU      | JRE .        | 40       |          |         | INISHE   | υα      |          |  | - ''   | OT. RECOVERY |            |              |
|-------------|------|---|--------------|--------------|----------|----------|---------|--|---------|----------|--|--|--------------|------------|--------------|
| F001        | AGE  |   |              |              |          | OOTAGE   | Ē       |  |         | ASSAY    | \$   |  |              | RECC       | OVERY        |
| FROM        | то   | DESCRIPTION   | GRADE        |              | FROM     | то       | LEHSTH  |  |         |          |  |  |              | ***        | SHORT        |
| 0           | 8.3  | OVERBURDEN  |              |              |          |          |         |  |         |          |  |  |              |            |              |
| 6-9         | -,-  | Altowed Motobooolf (UDboolf to UD                             |              |              |          |          |         |  |         |          |  |  |              |            |              |
| 8.3         | 17.  | Altered Metabasalt ("Rhyolite")                               |              | <b></b>      |          |          |         | <del> </del>                                     |         |          | <u> </u>   | <u> </u>   |              | <b> </b> - | <u> </u>     |
| -           |      | In this section it is moderately hematized yielding a Pk plum | <del> </del> | <del> </del> |          |          | ļ       | <del> </del>                                     |         | <u> </u> | <del> </del>                                     | <del> </del>                                     |              |            | <del> </del> |
|             |      | colour  | 1            |              |          |          |         | ┪──  |         | ļ        | <del> </del>                                     | <del> </del> -                                   |              |            | -            |
|             |      | fine grained, even textured, massive                          | 1            |              |          |          |         | 1  |         |          |  | <u> </u>   |              |            |              |
|             |      | no evident foliation  |              |              | l        |          |         | 1  |         |          |  |  |              |            |              |
|             |      | carbonate veining < 1% throughout section                     |              |              |          |          |         | 1  |         |          |  |  |              |            |              |
|             |      |   |              |              |          |          |         |  |         |          |  |  |              |            |              |
|             |      | 9.3 to 9.9  |              |              |          |          |         |  |         |          |  |  |              |            |              |
|             |      | 11.2 to 13  |              |              |          |          |         | ·  |         |          |  |  |              |            |              |
|             |      | These sections are lt green within hm'd section               |              |              |          |          |         |  |         |          | *  |  |              |            |              |
|             |      | silicified - sericitized "rhyolite"                           | ļ            |              |          |          |         | <b>_</b>   |         |          |  | <u> </u>   |              |            |              |
|             |      | condacts are broken - difficult to determine relationship     | 1            |              |          |          |         | <b>_</b>   |         |          |  |  |              |            |              |
|             |      | 13.0 10   | <b></b>      |              |          |          |         | <del> </del>                                     |         |          |  | ļ  |              |            | <del></del>  |
| <del></del> |      | 11.2 - 12   | <b> </b>     | ·            |          |          |         | <del> </del>                                     |         |          | <u> </u>   | <del> </del>                                     |              | <b></b>    | <del></del>  |
|             |      | 1-2% f.g py associated with carb veinlets in groundmass       | <b>-</b>     |              |          |          |         | <del> </del>                                     |         |          | <del>                                     </del> | ļ  |              | <b> </b>   | <del> </del> |
| 1           |      | 15.7  | <del> </del> |              | <u> </u> |          |         | <del> </del>                                     |         |          |  |  |              | <b></b>    |              |
|             |      | vuggy carb veining with 50.5% py assoc'd with veining         |              |              |          |          |         | <del>                                     </del> | <b></b> |          | <u> </u>   | -  |              | <b> </b>   |              |
|             |      | tr py also observed in groundmass                             |              | <b></b>      | · ·      |          |         | ╂──  |         |          |  |  |              |            |              |
| $\vdash$    |      | cr by a 130 observed in groundinass                           |              |              |          |          |         | <del> </del>                                     |         |          | <del>                                     </del> | <del>                                     </del> |              |            |              |
|             |      | 13.4 to 13.6  | 1.           |              | -        |          |         | <del>                                     </del> |         |          | -  | <b>†</b>   |              |            |              |
|             |      | Q-C vein with 3% py associated with veinlet                   | 1            |              |          |          | <b></b> | <del>  .</del>                                   |         |          |  |  |              |            |              |
|             |      |   |              |              |          |          |         | 1  |         |          |  |  |              |            |              |
| 17          | 89.1 | Altered Metabasalt ("Rhyolite")                               |              |              |          |          |         |  |         |          |  |  |              |            |              |
| -           |      |   |              |              |          |          |         |  |         |          |  | ·  | <u> </u>     |            |              |
|             |      | Lt green to light yellow-green in colour .                    |              |              | •        |          |         |  |         |          |  |  |              |            | <u> </u>     |
| $\vdash$    |      | hard to scratch   |              |              |          |          |         |  |         |          |  | 1  |              | <b></b>    | <u> </u>     |
|             |      | alteration silicified - sericitized - carbonated              |              |              |          |          |         | 1  |         |          |  | L  |              |            | ļ            |
| <b>  </b>   | ·    | massive tine grained equigranular                             | <b></b>      |              |          |          | ļ       | 1  |         | <u> </u> | <b> </b>   | <u> </u>   |              |            | <del> </del> |
| <b>  </b>   |      | no primary volcanic features - product of intense alteration  | <del> </del> |              | ļ        | <b> </b> |         | <del> </del>                                     |         |          |  | ļ  |              | <u> </u>   | <b></b>      |
| -           | [    |   | ŀ            | i i          | 1        | l        | I .     | .1   | l       | 1        | L  | 1  | L            | <u> </u>   | <u> </u>     |

SHEET NO.

HOLE NO.

|             |  |   | SHEET NO.         |               |      |              |              |  |                | *  |  |                |   |     |  |
|-------------|--|---|-------------------|---------------|------|--------------|--------------|--|----------------|--|--|----------------|---|-----|--|
| F00         | TAGE   |   |                   |               | FC   | OTAGE        |              |  |                | ASSAY  | 'S   |                | • | REC | OVERY  |
| FROM        | то   | DESCRIPTION .   | GRADE<br>ESTIMATE | SAMPLE<br>NO. | FROM | 70           | LENSTH       |  |                | ·  | ·  |                |   | RUM | SHORT  |
|             |  | most sections are strongly carbonates with 50% f.g. carbonate in                  |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  | groundmass where white mineral is observed - usually strongly                     |                   |               |      |              |              |  |                |  |  |                |   |     | 1  |
|             |  | carbonated.   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  | Other sections are weakly carbonated  |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  |   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  | Milky white QV observed at:   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
| 1           |  |   | •                 |               |      |              |              | <u> </u>   |                |  |  |                |   |     |  |
| <u> </u>    |  | 32.5-33 with 1% f.g. py associated with bl chl within                             |                   |               |      | ļ            | ļ            | <u> </u>   |                |  |  |                |   |     | <u> </u>   |
| 1           |  | veining + along slip planes.  |                   |               |      |              | <u> </u>     | <b> </b>   |                |  |  | <u> </u>       |   |     | <u> </u>   |
| <u></u>     | <del> </del>                                     | 20.2.2.2.2.   |                   |               |      |              | ļ            |  |                |  | L  |                |   |     | <u> </u>   |
|             |  | 38.3 - 38.7 Q - some carbonate  |                   |               |      | ļ            | <u> </u>     | <u> </u>   |                |  | <u> </u>   |                |   |     | ┞——  |
|             |  | minor specks of py ≺1 mm  |                   |               |      |              | <u> </u>     | <del>  </del>                                    |                |  |  |                |   |     | —  |
| <u> </u>    |  | 20 2 20 C th fushaite as all assessed   |                   |               |      | <del> </del> | <del> </del> |  |                |  |  |                |   |     |  |
| <u> </u>    |  | 39.3-39.6 tr.fuchsite or chl - emarald green                                      |                   |               |      |              | <del> </del> | <del> </del>                                     |                |  |  | ļ ———          |   |     | <del> </del>                                     |
|             |  | occurs within veining   |                   |               |      |              |              | <del> </del>                                     |                | <b>}</b>   | <del> </del>                                     |                |   |     | <del> </del>                                     |
|             |  | minor specks of py in groundmass along edge of vein $<1\%$ py                     |                   |               |      |              | <del> </del> |  |                |  |  | -              |   |     | -  |
| ļ           | <del> </del>                                     | 45.6-45.8   |                   |               |      | <del> </del> | <del> </del> | <del> </del>                                     | <del> </del>   |  | <del> </del>                                     | <u> </u>       |   |     | <del> </del>                                     |
| <b> </b>    |  | 45.0-45.8   |                   |               |      | <del> </del> | -            | <del> </del>                                     | <del> </del> - | <del> </del>                                     | <del> </del>                                     | <del> </del>   |   |     | ├──  |
|             |  | 4747.1  |                   |               |      |              |              | <del>                                     </del> |                |  | <del> </del>                                     | <del> </del> - |   |     | <del> </del>                                     |
| $\vdash$    | +-   | 4/4/.1  |                   |               |      | <del></del>  | <del> </del> | <del> </del>                                     |                |  | <del> </del>                                     |                |   |     | -  |
| <del></del> | <del></del>                                      | 49.49.0 O.C vein with minor py associated   |                   |               |      | <u> </u>     | 1            | <del> </del>                                     |                | <del> </del>                                     | <del>                                     </del> | <del> </del>   |   |     | <del>                                     </del> |
| 1           | <del>                                     </del> | 50-3 60.5 with vein boundary  |                   |               |      |              | <del> </del> | <del> </del>                                     | <del> </del>   |  | <del>                                     </del> |                |   |     | <del> </del>                                     |
| -           |  | minor specs of py <1 mm in QV   |                   |               |      |              |              | <b></b>  |                | <del>                                     </del> | <del>                                     </del> |                |   |     | <b></b>  |
| 1           | <del>                                     </del> | veining is anastomasing - no preferential direction                               |                   |               |      |              | <del> </del> | <del>                                     </del> |                |  | <del>                                     </del> |                |   |     |  |
|             | <del>                                     </del> | Veriffing 13 diffus compasting the preference of the certain                      |                   |               |      |              | <u> </u>     |  |                |  |  |                |   |     |  |
|             | <b>†</b>   | Throughout section:   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  | minor by is often associated with hairline fractures as well                      |                   |               |      |              | İ            |  |                |  |  |                |   |     |  |
|             |  | minor py is often associated with hairline fractures as well as in the groundmass |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  |   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             | 1  | 56-89.1   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  | weakly to strongly carbonated   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  | √1% QV throughout section   |                   |               |      |              |              |  |                |  |  | 1              |   |     |  |
|             |  | minor py associated in black chl veinlets   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
| Ĭ           |  | in section as well as fractures slip places                                       |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  |   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  |   |                   |               |      |              |              |  |                |  |  |                |   |     |  |
|             |  |   |                   |               |      |              |              |  |                |  |  |                |   |     |  |

FOOTAGE FOOTAGE **ASSAYS** RECOVERY SAMPLE DESCRIPTION FROM TO NO. ESTIMATE FROM LENSTH 78.7 to 80° broken core 85.5-8/./ 1-2% py along slip planes, bl chl veining + minor Q-C veining this section of "rhyolite" is not carbonated appears to be siliceous in nature Chloritized Andesitic-looking Section 89.1 | 96.5 Lt green-grey colour fine-grained massive equigranular 2-3% hairline black chlorite - filled fractured 2% Q.C veining section is moderately to strongly carbonated 25-> 50% f.g. cbt in groundmass p.y occurs throughout section and is mainly associated with black chlorite veinlets or in chl in QV in the rock 94.5 to 95.5 Q.C. veining with py occurring at boundary of veining or host material in the veining - 2-5% py locally = py is f.g. < 1mm minor limonite staining Altered Metabasalt 96.5 f.g. massive homogeneous weakly - strongly carbonated groundmass minor chlorite veining probably sericitization main alteration @ 101.3 5-7% finely disseminated py in groundmass Minor OV at 97.5-97.7 97.9-98.5 1-2% py in close association with bl chl veinlets

SHEET NO. 4 of 4

| F001   | TAGE |  |  | -             |              | OOTAGE   |  |              |  | ASSAY        | 'S   |          | - | RECO | OVERY        |
|--|------|--|--|---------------|--------------|--|--|--------------|--|--------------|--|----------|---|------|--------------|
| FROM   | то   | DESCRIPTION .  | GRADE<br>ESTIMATE                                  | SAMPLE<br>NO. | FROM         | TO   | LEHSTH   |              |  |              |  |          |   | Run  | SHORT        |
|  |      | 99.4-99.4  |  |               |              |  |  |              |  |              |  |          |   |      |              |
|  |      | QV   | <u> </u>   |               |              |  |  |              |  |              |  |          |   |      |              |
|  |      |  | ļ  | <u> </u>      |              | <u> </u>   | <u> </u>   |              |  | <u> </u>     | <u> </u>   |          |   |      |              |
| <u> </u>   |      | 103.5 to 126.5   | ļ  | <u> </u>      | <u> </u>     | ļ  | <u> </u>   |              | <u> </u>   | ļ            |  | ļ        |   |      | 1            |
| <u> </u>   |      | It grey altered rock   | <b> </b>   |               | <u> </u>     |  | <u> </u>   |              |  |              |  |          |   |      | <del></del>  |
| <u> </u>   |      | f.g. massive homogeneous   | <u> </u>   | ļ             |              | <u> </u>   | ļ  |              | <u> </u>   |              |  |          |   |      | <del></del>  |
|  |      | probably strongly seritized weakly crabonated  | <del> </del>                                       |               | ļ            | <del> </del>                                     | <del> </del>                                     | <u> </u>     | ļ  | -            | <del> </del>                                     | ļ        |   |      |              |
| <b></b>  |      | milky QV at:   | <del>                                     </del>   |               | <del> </del> | -  | <del> </del>                                     | <del> </del> | <del> </del>                                     | <del> </del> | <del>                                     </del> | <b></b>  |   |      |              |
| <del>                                     </del> |      | 114.5-114.7  | <u> </u>   |               |              | 1  |  |              | <del>                                     </del> | <b> </b>     |  | <b></b>  |   |      |              |
|  |      | 115.0-115.5  |  |               |              | 1  |  |              |  |              |  | 1        |   |      |              |
|  |      | 114.5-117.6  |  |               |              |  |  |              |  |              |  |          |   |      |              |
|  |      | 118.0-118.5  |  |               |              |  |  |              |  |              |  |          |   |      | $\prod$      |
|  |      | 122.5-123.4 -  |  |               |              |  |  |              |  |              |  |          |   |      |              |
|  |      |  |  |               |              |  |  |              |  |              |  |          |   |      | 1            |
|  |      | minor finely disseminated py observed in groundmass  |  |               |              |  |  |              |  |              |  |          |   |      | 1            |
|  |      | specially along slip planes where rock tends to break easily py also found in hairline fractures containing minor black chlori | 1  |               | <u> </u>     | <u> </u>   |  |              |  |              |  |          |   |      | <u> </u>     |
|  |      | py also found in hairline fractures containing minor black chlori  | te   | <b></b>       | <b>!</b>     |  |  |              | <u> </u>   |              |  |          |   |      |              |
|  |      |  |  |               |              | <u> </u>   |  |              |  |              |  |          |   |      | <b></b>      |
|  |      | 126.5-156  |  |               | <b></b>      |  |  |              |  |              |  | <u> </u> |   |      | <b></b>      |
| <u> </u>   |      | altered - rhyolite looking metabasalt  |  |               |              |  |  |              | ļ  |              |  | <u> </u> |   |      |              |
| <u> </u>   |      | massive f.g. homogeneous   |  |               |              |  |  | <u> </u>     | <u> </u>   |              |  |          |   |      | 4            |
| <u> </u>   |      | 1-2% finely disseminated py associated with fracture planes.   |  |               |              |  |  |              |  |              |  |          | · |      | <b></b>      |
| _  |      | 2-3% carb -qz veinlet anastomasing throughout,Q-C veining at   |  | ļ             |              |  | L  |              |  | <u> </u>     |  |          |   |      | <b></b>      |
|  |      | 133.7-134  | ļ  |               |              |  |  | <b> </b>     |  | <u> </u>     |  | <b>!</b> |   |      |              |
|  |      | 140.0  | ļ  |               | <b></b>      |  |  | <u> </u>     |  |              |  |          |   |      |              |
|  |      | 149.0  | <del> </del>                                       |               | <del> </del> | ļ  | <u> </u>   | <b> </b>     |  | <b> </b>     | ļ  | <b>!</b> |   |      | <del></del>  |
|  |      | 5% fg py along fracture plane filled with black chl  | <del> </del>                                       |               | <del> </del> | <del> </del>                                     |  | <del> </del> | <del> </del> -                                   | ļ            |  | · ·      |   |      | <del></del>  |
| <del></del>                                      |      | 150-156  | <del> </del>                                       |               |              | <del> </del>                                     |  | <del> </del> |  |              |  | ļ        |   |      | <del></del>  |
|  |      | slight change in nature of rock  | <del>                                       </del> |               |              | <del> </del>                                     | ļ  | <del> </del> |  | <u> </u>     |  | 1        |   |      | <del> </del> |
|  |      | - med to f.q. still even textured  | <del></del>  |               |              | <del> </del>                                     | <u> </u>   |              |  |              | <del></del>                                      |          |   |      |              |
|  |      | - med to f.q. still even textured<br>- andesitic looking   | <del>                                     </del>   | <b></b>       |              | <del> </del>                                     |  | <del> </del> |  | <b> </b>     | <u> </u>   |          |   |      |              |
|  |      | - andesitic looking It green in colour - more carbonated. ?  | <del> </del>                                       |               |              | <del>                                     </del> | <del>                                     </del> | <del> </del> |  |              |  |          |   |      |              |
|  |      | it green in colour - more carbonated. !  | <del>                                     </del>   |               |              |  |  | <b></b> -    | <del> </del> -                                   | <b></b>      |  | <b> </b> |   |      |              |
|  | 156  | End of Hole  | <del>                                     </del>   |               |              | <del>                                     </del> | -  |              |  | <b> </b>     | <del> </del>                                     | <b></b>  |   |      |              |
|  |      | 1/4  |  |               |              |  |  | $\vdash$     |  | ,            |  |          |   |      |              |
|  |      | Pater Don  |  |               |              | <b></b>  |  | <b> </b>     |  | · · · · ·    |  |          |   |      |              |
|  | L    |  | <u> </u>   |               |              |  |  |              | L  | <u> </u>     | L  | L        |   |      |              |

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