

DRILLING REPORT
on the
BOGG 10 MINERAL CLAIM
BRIDGE LAKE AREA
KAMLOOPS MINING DIVISIONS
FRITGFCBUMATAICALBRANCH
AS日GSGMTE的TRDORT

PROPERTY
BOGe 10 ginempa
N.T.S. $92 \mathrm{P} / 10 \mathrm{E}$ $51^{\circ} 37^{\prime} \mathrm{N} 120^{\circ} 30^{\prime} \mathrm{W}$

OWNER

OPTIONED BY

OPERATOR

AUTHOR

DATE
G.H. RAYNER \& ASSOC., c/o 319-470 GRANVILLE ST. VANCOUVER, B.C. V6C 1V5

GEOTECH CAPITAL CORP., \#319-470 GRANVILLE ST., VANCOUVER, B.C. V6C IV5

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NOV. $2^{\text {th }}, 1989$

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## INTRODUCTION

This report was written at the request of Geotech Capital Corp. The report is based on drilling and geologic data collected during the field season.

The Bogg mineral claims are located approximately 30 kilometers northwest of Little Fort, Ta Hoola Lake area, in the Kamloops and Clinton Mining Division. Access can be gained to the property from 100 Mile House, east on Highway 24 to Bridge Lake which is approximately half way to Little Fort. From a point 19 kilometers east of Bridge Lake, a four wheel drive logging and mining road continues north to the property. Several access roads intersect the property.

The property consists of 33 metric grid claims, totalling 500 units which are included in the option aq̣eement between Geotech Capital Corp. and G.H. Rayner \& Assoc. Ltd.

The purpose of the drilling program was to delineate the source of the anomalous gold found in soils from previous years work. The drilling took place betweeen October 1, 1988 and October 25, 1988.

## History of the Area

Initially, the property area was first staked by Anaconda American Brass prior to 1966. Extensive exploration programs were conducted, with copper as the primary target mineral. The claims were allowed to lapse in 1971 and G.H. Rayner staked the area in 1971 and was subsequently leased to Prism Resources Ltd. and later dropped in 1973 after a small amount of work was carried out. Cities service Minerals Corp. optioned the property in 1973 and carried out extensive exploration for copper mineralization using geochemical, geophysical methods and drilling 4 diamond drill holes totalling 1743 feet. Commonwealth Minerals Ltd. of Vancouver conducted a program of line cutting and soil sampling in 1980 . A total of 271 samples were taken and analyzed for copper, lead and silver. In May, 1987, G.H. Rayner \& Assoc. optioned the property to Geotech Capital Corp. of Vancouver. During the 1987 field season, a total of 2256 soil samples were collected and analyzed for silver, arsenic and gold. Several gold anomalies were located (see map), each of which displayed dispersion patterns resulting from glacial movement from the northeast.


## Regional Geology

The Bogg mineral claims are located in an area known as the Quesnel Trough. The Quesnel Trough applies to a long narrow strip of predominantly Lower Mesozoic and mainly volcanic rocks that lies between Proterozoic and Paleozoic strata of the Omineca Geanticline to the east and the Upper *Paleeozic rocks of the Pinchi Anticline to the west. The weak to moderate deformation of the Quesnel Trough rocks is in marked contrast to the much deformed and metamorphosed flanking geanticlinal units.

## Property Geology

Two major rock groups in the area encompassed by the Bogg mineral claim group have been recognized. The first is Nicola volcanic rocks of Upper Triassic age and the second major unit, recognized by Preto (1970) are intrusive rocks ranging in composition from leucogranite to leucosyenite of Upper Triassic or Lower Jurrasic açe.

The Bogg group is extensively drift-covered and outcrops form a small percentage of the total area. Despite the scarcity of outcrop, the drift cover is not particularly thick. The road branches in the northern and western portions of the property have considerable outcroppings along them resulting from minor bulldozer cuts during road construction.

The most abundant type of Niccla rocks on the western portion of the prospected area is an aphanitic, thinlybedded, light green marine tuff that appears identical with Preto's subunit 2 b . The tuff typically strikes $165^{\circ}$ to $175^{\circ}$ and dips $65^{\circ}$ to $90^{\circ}$ to the west. Euhedral to anhedral pyrite is ubiquitous throughout this unit but rarely exceeds $0.5 \%$. The eastern portion of the study area is characterized by an oxidized pyroclastic, possibly an ash tuff. This pyroclastic is typically oxidized up to 3 cm . on exposed surfaces and to a lesser extent in fractures. Fractures are typically filled with a dolomitic carbonate. Again, pyrite rarely exceeds $0.5 \%$ indicating the presence of an iron carbonate within the matrix of the rock. The two rock types are separated by a topographic depression trending north which also coincides with a resistivity low and I.P. high. This geophysical anomaly (see report dated August 29, 1988) is probably the result of graphite and/or increased sulphides such as pyrite in argillic rocks as indicated by recent road construction. This description has been confirmed by the diamond drilling.

Plutonic rocks are predominant in the southern portions of the property but do not appear in the mapped area. Leucosyenite is the term applied to the plutonic rocks in the southern part of the property but all samples are not necessarily syenitic and include granitic and monzonitic varieties.

## Drilling, Sampling and Laboratory Methodology

A total of 8 holes were drilled, for a total of 800.1 metres. Drill hole DDH-88-3 was abandoned due to difficult drilling conditions. The drill core size was $B Q$. The core was split and bagged on the drill site with the remaining core stored on the property (grid coordinates L3195 2+80E).

The samples were analyzed by Acme Analytical Laboratories Ltd., Vancouver, B.C. The samples were crushed and sieved to - 80 mesh and were tested for copper, silver and arsenic using Inductively Coupled Argon Plasma (ICP). A 0.5 gram sample is digested with 3 ml of $3-1-2 \mathrm{HCl}-\mathrm{HNO}_{3}-\mathrm{H}_{2} \mathrm{O}$ at 95 degrees $C$ for one hour and is diluted to 10 ml with demineralized water. Gold was determined from Atomic Absorption (10 gram sample).

## Conclusion

The drilling program that has been completed to date has failed to delineate any significant gold or silver values. It is apparent that ice movement from the northeast has caused the present geochemical dispersion pattern resulting from possible gold mineralization along the Windy Mountain fault. Rock outcrop along the fault zone is nonexistent but topographic expressions in the form of deep gullies and linear swamps complement the geologic (see Pretor, 1970) and geochemical interpretation expressed here. It is in this location where further trenching and drilling would be warranted, especially to the north of DDH-88-6 and DDH-88-7.

## REFERENCES

Archer, G.S., Geochemical Report on the Bogg Mineral Claims, Bridge Lake Area, Kamloops M.D., Sept. 10, 1987.

Campbell, R.B. and Tipper, H.W. Geology of Bonaparte Lake Map-Area, British Columbia, G.S.C. Mem 363.

Croome, N.C., (Revised) Report on the Geotech Capital Corp., Bogg Mineral Claims, Ta Hoola Lake Area, Kamloops M.D., N.C. Croome \& Associates Ltd., August 5, 1987.

Preto, V.A.G., Geology of the Area Between Eakin Creek and Windy Mountain. Geology, Exploration, and Mining, 1970.

1) I am a graduate of the University Victoria with a Bachelor of Science Degree (1980 - Physical Geography).
2) I have subsequently completed the Geology Program at the University of British Columbia.
3) Geology Work Experience:
-Assistant Geologist with the B.C. Ministry of Energy, Mines and Pet. Resources, Project Geology Dept., 19801981.
-Intermediate Field Geologist with Retro Canada (Coal Division) - 1982.

- Self-employed - worked for several Vancouver based resource companies and with various geological engineers throughout the season - 1983.
-Employed as a geologist and computer programmer - 1984 to 1986.
-Self-employed - geological services performed throughout British Columbia - 1986 to 1987.
-Employed by the B.C. Ministry of Energy, Mines and Petroleum Resources - 1987-1988.
-Employed by Geotech Capital Corp. - Project Geologist - 1988



# RDS 

Roger's Drilling Services Inc.
Ste. $36 \leq 2248$ York Ave., Vancouver, B.C.
CANADA V6K 1C6
Phone: (604) 733-1959

## INVOICE

Job No. 8811<br>Invoice ivo. 33020 Oct. 121988

Geotech Capital Corp.
319-470 Granville Street
Vancouver, B.C., V6C 1V5

FI: TAHOOLA LAKE PROPERTIES

```
MOVING IN
BULLDOZER
PERSONNEL CARRIER
ROOM & BOARD
MOBILIZATION & DEMOBILI&ATIOIJ
SUPPLIES
\begin{tabular}{r}
\(\$ 4,366.00\) \\
\(1,320.00\) \\
\(N / C\) \\
950.00 \\
\(4,300.00\) \\
\(2,490.66\) \\
\hline
\end{tabular}
```

TOTAL $\quad \$ 13,426.66$


RGS/hh

# RDS <br> Roger's Drilling Services Inc. Ste. $302-2248$ York Ave., Vancouver, B.c. CANADA V6K IC6 <br> Phone: (604) 733-1959 

## Job No. 8811

Invoice No. 88022
October 24, 1988

```
Geotech Capital Corp.
319-470 Granville St.
Vancouver, B.C., V6C lV5
```

RE: TA HOOLA LAKE PROPERTIES OCTOBER 1, 1988 TO OCTOBER 15,1983

| DRILLING |  | \$36,038.00 |
| :---: | :---: | :---: |
| CASING |  | 1,923:65 |
| REPAIRS |  | N/C |
| moves |  | 1,329.00 |
| WATERIINE |  | 236.00 |
| HOLE STABILIZATION |  | 1,187.00 |
| - BULLDOZER |  | 1,540.00 |
| STANDBY |  | 592.00 |
| ROOM AND BOARD |  | 3,750.00 |
| - PERSONNEL CARRIER |  | 1,597.00 |
| SUPPLIES |  | 1,938.23 |
|  | AMOUNT DUE | \$50,630.88 |

# Roger's Drilling Services Inc. 

Ste. 302-2248 York Ave., Vancouver, B.C.
CANADA V6K 1C6
Phone: (604) 733-1959

## INVOICE

Job No. 8811
Invoice No. 88024
November 7, 1988

```
Geotech Capital Corp.
319-470 Granville Street
Vancouver, B.C. V6C 1V5
```

RE: TA HOOLA LAKE PROPERTIES October 16, 1988 to October 25, 1988

| DRILLING | \$ 25,153.55 |
| :---: | :---: |
| CASING | 1,948.00 |
| MOVES | 2,773.00 |
| WATERLINE | 413.00 |
| BULLDOZER | 1,925.00 |
| STANDBY | 1,184.00 |
| TRAVEL TIME | N/C |
| ROOM \& BOARD | 2,500.00 |
| PERSONNEL CARRIER | 75.00 |
| SUPPLIES | 580.19 |
| TOTAL | \$ 36,551.74 |
| Plus: Invoice \# 88022 Involce \# 88020 | $\begin{aligned} & 50,630.88 \\ & 13,426.66 \end{aligned}$ |
| . | \$ 100,609.28 |
| Less: Downpayment | 30,000.00 |
| AMOUNT DUE | \$ 70,609.28 |

## APPENDIX B

Grid Coordinates
＝＝＝＝＝＝＝＝＝＝＝
1）88－1
2）88－2
L3390 $3+28 \mathrm{E}$
L3300 1＋75E
$090^{\circ}$
$180^{\circ} \quad-45^{\circ}$
5）88－5
L3310 1＋50E
$090^{\circ} \quad-60^{\circ}$
6） $88-6$
L3085 3＋90E
$090^{\circ}$
$-45^{\circ}$
$-45^{\circ}$
$-45^{\circ}$

ELevation（ft．）
＝＝ニーニニ＝ニ＝ニニニー＝
5080 ft．（1548 metres）
5080 ft．（1548 metres）
5165 ft．（1574 metres）
5165 ft. （1574 metres）
$5170 \mathrm{ft} .(1576$ metres）
$5065 \mathrm{ft} .(1534$ metres）
5065 ft ．（1534 metres）
5080 ft．（1548 metres）
-
. ${ }^{\omega}$ . $\omega$ $\omega$ APPENDIX C . a -

## $=$

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Page 1 of 6
DIAMOND DRILL RECORD
Hole No. 88-1



Page 2 of 6
Hole No. 88-1

| 1 Depth |  | Recovery | Description | \|Sample No.| | From | To | Width | Cu | AG | AS | AU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \|from | to |  |  |  |  |  | lof Sample | ppm\| | ppml | ppm | ppb |
| 19.0 | 20.0 | 1008 | Argillite 0 |  |  |  |  |  |  |  |  |
| 1 |  | 1 I | Fract. $-25^{\circ}+45^{\circ}$ to axis । |  |  |  | 1 | 1 |  |  |  |
| I |  | 1 | - bleached on fract. up to 2 mml | 1 |  |  | I | I | I |  |  |
| 1 |  | 11 | - pyrite: <.5\% on fracture \| | \| |  |  | I | 1 | I |  |  |
| 1 |  | 1 | fine grain I |  |  |  | I |  | I |  |  |
|  |  |  | - 18 PY: disem., fine grained.l |  |  |  |  |  | I |  |  |
| 120.0 | 23.8 | 100\% | Argillite - bleached, tan/light green \| |  |  |  | 1 | I | I |  |  |
| 1 |  | I | - mottled apprearance |  |  |  | I |  | I |  |  |
| 1 |  | 1 | - pyrite: 18 on fract. surface |  |  |  |  | I | 1 |  |  |
| 1 |  | 1 I | subhedral | , |  |  |  |  |  |  |  |
| 1 |  | 11 | : 5\%, fine grain, disem. |  |  |  |  | I | I |  |  |
| 1 |  | I | - carb. onfract. surface |  |  |  |  |  |  |  |  |
| 1 |  | 1 \| | - fract $25^{\circ}+40^{\circ}$ to axis |  |  |  |  |  | I |  |  |
| I |  | 1 I | - l - 2mm wide |  |  |  |  | I | I |  |  |
| 1 |  | 1 | - <.5\% pyrite , fine grained |  |  |  |  |  | I |  |  |
|  |  |  | euhedral |  |  |  |  | I | I |  |  |
| 123.8 | 24.3 | 100\% | Argillite - sheared /6 to axis | 1 |  |  |  |  |  |  |  |
| 123.8 |  | 100\% | - fract. $50^{6}+65^{\circ}$ | 1 |  |  |  | , | I |  |  |
| 1 |  | 1 I | - sheet pyrite, fine gr. on |  |  |  |  | I |  |  |  |
| 1 |  | I | fracture section |  |  |  | I | I | I |  |  |
|  |  |  | - minor carb. |  |  |  |  | I |  |  |  |
| 124.3 | 25.0 | 100\% | Argillite - Bleaching |  |  |  | I | I | I |  |  |
|  |  | 1 I | - fract: $50^{\circ}$ |  |  |  | I | \| | I |  |  |
|  |  | 1 | - oxidation red/brown blotches |  |  |  |  |  |  |  |  |
| 125.0 | 66.3 | 100\% | Argillite - Black with disem. fine grain \| |  |  |  | I | I | I |  |  |
|  |  | 1 \| | - pyrite: 1\% euhedral \& \| |  |  |  |  | 1 |  |  |  |
| I |  | 1 I | anhedral fine grain on |  |  |  | I | I | I |  |  |
| I |  | I | fract. sect. - sheet pyrite \| |  |  |  |  | 1 | I |  |  |
| 1 |  | 11 | (29.9-30.2-25\% recovery) \| |  |  |  | 1 | 1 | 1 |  |  |
| I |  | 1 | (30.2-32.6-25\% recovery) ${ }^{\text {- }}$ ( |  |  |  |  | 1 | I |  |  |
| I |  | 1 | - fract.: $35^{\circ}+40^{\circ}+50^{\circ}+60^{\circ}$ to axis |  |  |  | 1 | I | I |  |  |
|  |  | , | - carb. - heavy in localized areas |  |  |  |  | I | I |  |  |
|  |  | 1 | otherwise minor on fract. section |  |  |  | 1 | I | I |  |  |
|  |  | $1 \quad 1$ |  |  |  |  |  |  |  |  |  |

Hole No. 88-1

| Dep |  | \|Recovery| | Description | \|Sample No. $\mid$ | From | To | W Width | CU | AG | AS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to |  |  |  |  |  | Iof Sample | ppm 1 | ppm\| | ppml | ppbl |
|  |  |  | Sample: Argillite with sheet pyrite on |  |  |  |  |  |  |  |  |
| I |  | 1 1 | 1 fract. section | 1 |  |  | 1 | I |  |  |  |
| \| |  |  | - minor bleaching | 1 I |  |  | I | 11 | 1 |  |  |
| \| |  | 1 | - pyrite: very fine grain, 2-3\% | 1 I |  |  | I | I | I |  |  |
| \| |  |  | - minor serpentine on fracture. |  |  |  | 1 | 1 | 1 |  |  |
| I |  | 1 | surface |  |  |  | 1 | I | 1 |  |  |
| I |  | , | ISample: same as above - very broken | C56514 | 29.5 | 32.6 | 2m | \| 92 | 0.31 | 37 | 2 |
| 1 |  | 1 1 | \|Sample: same as above - very broken | \| C56513 | 37.8 | 39.8 | 2m | 1111 | 0.31 | 4 | 1 |
| 1 |  | 1 I | \|Sample: carb. on bleaching sections | 1 C 56512 | 48.2 | 50.6 | 2 m | 57 | 0.11 | 7 | 1 |
| I |  | 1 | 1 - white to very light grey and | C56527 | 54.3 | 56.3 | 2 m | 1081 | 0.51 | 19 | 1 |
| 1 |  |  | altered to clays |  |  |  |  |  |  |  |  |
| \| |  | I | - pyrite: disem., euhedral | 1 I |  |  | 1 | 11 | I |  |  |
| \| |  | , | throughout (<.5\%) | 1 |  |  | 1 | 11 | I |  |  |
| \| |  | 1 i | 1 50.6 - 51.2-20\% recovery) | 1 I |  |  | I | 1 | I |  |  |
| I |  | 1 I | \| (51.2-52.4-70\% recovery) | 1 |  |  | 1 | 11 | I |  |  |
| I |  | 1 I | \| (53.7-56.7-10\% recovery) | 1 |  |  | I | 1 1 | I |  |  |
| \| |  | 1 \| | \| (56.7-57.3-208 recovery) | 1 \| |  |  | 1 | I |  |  |  |
| I |  | I | \| (57.3-59.7->90\% recovery) | 1 |  |  | 1 | I |  |  |  |
| I |  | I |  | 1 \| |  |  | 1 |  |  |  |  |
| I |  | , | \|Sample: same as (56512) | C56511 | 60.2 | 62.6 | 2m | 99 | 0.31 | 15 | 11 |
| 1 |  | I | \| - very broken | 1 |  |  | 1 | 11 |  |  |  |
| 1 |  | 1 | - heavy bleaching in localized areas | 1 |  |  | , | 11 |  |  |  |
| I |  | 11 | - carb. increases with bleaching | 1 |  |  | 1 |  |  |  |  |
| \| |  | 1 \| | \|Sample: same as (56512) | C56510 | 63.9 | 65.9 | 2m | 81 | 0.21 | 17 | 5 |
| \| |  | 1 | 1 - blebs of fine gr. pyrite \& sheet | , |  |  | 1 | I |  |  |  |
| 1 |  | 1 | - pyrite on fract., euhedral | 1 |  |  | 1 |  |  |  |  |
|  |  | 1 | and anhedral | 1 |  |  | 1 | 11 |  |  |  |
| I |  | 1 | - minor bleaghing - carbs present | 1 |  |  | I | 11 |  |  |  |
|  |  | 1 | - fract.: $30^{8}+45^{\circ}+75^{\delta}$ to axis | 1 |  |  | 1 | 1 |  |  |  |
| 166.3 | 67.0 | >90\% | Argillite - Bleached - carb. present | 1 |  |  | I | 11 |  |  |  |
|  |  | 1 \| | - $20-30 \mathrm{~cm}$ section | 1 |  |  | , | 11 | I |  |  |
| 1 |  | 1 1 | fine granular appearance |  |  |  | , | 11 |  |  |  |
| ! |  | I | - Qtz \& carb but no pyrite | 1 |  |  | , | 11 |  |  |  |
|  |  | 1 |  | 1 |  |  | 1 | 1 | 1 |  |  |

Page 4 of 6
Hole No. 88-1

| Dep |  | \|Recovery | $\mid$ Description \|S | Sample No. | From | To | Width | CU | AG | AS | AU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to |  |  |  |  |  | Iof Sample | ppml | ppml | ppml | ppbl |
| 167.0 | 68.6 | 1 100\% | Argillite - brecciated, almost 'milonitic' | C56509 | 66.3 | 68.6 | 2 m | 42 1 | 0.11 | 24 | 11 |
|  |  | I | - minor sheet pyrite (fine gr.) |  |  |  | \| |  |  | , |  |
| 1 |  | I | on fract. section \| |  |  |  | I | I | 1 |  |  |
| , |  |  | - fract: $30^{\circ}+40^{\circ}$ to axis. \| |  |  |  | \| | \| | I | I |  |
| I |  | I | - pyrite: disem. \& euhedral. |  |  |  | I | I | I |  |  |
| 1 |  | I | - minor Qtz veinlets ( $<.5 \mathrm{~cm}$ ) |  |  |  | I | \| | I | I |  |
|  |  |  | 1 with carb. on fract. <lmm |  |  |  | 1 | I | I |  |  |
| 168.6 | 69.8 | \| 100\% | \|Same as 25.0-66.3 |  |  |  | 1 | , | I |  |  |
|  |  | I | 1 - increase in pyrite, disem. 1-2\% |  |  |  | I | I |  |  |  |
| I |  | । | \| euhedral \& anhedral |  |  |  | 1 |  | 1 |  |  |
|  |  | I | - fract. healed with carb. |  |  |  | I | I | I |  |  |
| 169.8 | 72.5 | 1 100\% | Argillite - pyrite: blebs ( 1.5 mm long) \& |  |  |  | 1 |  | \| |  |  |
|  |  | I | disem. $1-2 \%$ |  |  |  | 1 |  |  |  |  |
| I |  | I | - locally up to 5-10\% | C56508 | 69.8 | 71.8 | 2m | 1291 | 0.61 | 13 | 7 |
| I |  | I | - fract.: 55 - $60^{\circ}$ to axis | C56508 |  |  | 2 m |  |  |  |  |
| I |  | 1 | 1 - rare carb. on fract. surface \| |  |  |  | 1 |  |  |  |  |
|  |  | 1 | \|At: 72.5 - slight brecciation | C56507 | 71.8 | 73.8 | 2m | 86 | 0.51 | 24 | 8 |
| 172.5 | 75.3 | 1 100\% | \| Argillite - very black \& friable | C56506 | 73.8 | 75.3 | 2m | 75 | 0.21 | 14 | 16 |
| 1 |  | 1 | 1 - occasional brecciation |  |  |  | 1 |  |  |  |  |
| 1 |  | 1 | (up to 5 cm clasis) |  |  |  | 1 |  |  |  |  |
| I |  | 1 | 1 - pyrite: $1 \%$ euhedral \& disem. \| |  |  |  | I | I | I |  |  |
| 1 |  | 1 | \|At: 77.8 - $10-20 \mathrm{~cm}$ section -up to 408 \| |  |  | I | I |  | , |  |  |
|  |  | 1 | $1 \quad$ very fine grained (pyrite). |  |  |  | 1 | I |  |  |  |
| 175.3 | 76.6 | \| $>95 \%$ | \|Same as $72.5-75.3$ |  |  |  | I | I | 1 |  |  |
|  |  | ! | \| - slight decrease in bleb size of | 1 |  |  | , | I | I |  |  |
| I |  | 1 | 1 pyrite (1-2\%) \| |  |  |  | I | 1 | 1 |  |  |
|  |  | 1 | 1 - pyrite: appears to be // to bedding \| |  |  |  | I | I | 1 |  |  |
|  |  | I | \| - brecciation increase down to 76.2, | | 1 |  | I | 1 |  | , |  |  |
|  |  |  | 1 last 30 cm , very broken \| |  |  |  | 1 |  |  |  |  |
| 176.2 | 79.1 | \| 100\% | \| Argillite - bleached, granular looking | | C56505 | 76.0 | 79.1 | 2m | \| 88 | | 0.11 | 7 | 1 |
|  |  | 1 | 1 - very soft, alteration to clayl |  |  |  | 1 |  |  |  |  |
| I |  | 1 | \| - very light grey, light green | |  |  |  |  |  | 1 |  |  |
|  |  | I | \| - pyrite: <l\%, euhedral \& disem| |  |  | I | 1 | 1 | 1 |  |  |
|  |  | 1 | \|At: 78.0, locally up to 5\% fine gr. blebs | |  |  | , | 1 | 1 | 1 |  |  |



| Depth |  | \|Recovery | Description | Sample No. 1 | From | To | $\begin{aligned} & \text { Width } \\ & \text { Lof Sample } \end{aligned}$ | $\overline{\mathrm{Cu}}$$\mathrm{ppm}$ | $\begin{aligned} & \hline \text { AG } \\ & \text { ppm } \end{aligned}$ | AS ppm | $\begin{aligned} & \overline{\mathrm{AU}} \\ & \mathrm{ppb} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| from | to |  |  |  |  |  |  |  |  |  |  |
| 0 | 6.1 | casing |  |  |  |  |  |  |  |  |  |
| 6.1 | 31.2 | 100\% | Tuff - grey/light red/purple colour | I |  |  | 1 |  | 1 | 1 |  |
|  |  | , | - numerous fractures healed by | I |  |  | 1 1 |  |  | 1 |  |
|  |  | I | dolomitic carb. | I |  |  | 1 |  | I | I |  |
|  |  | I | 1 - pyrite: 5\% euhedral ${ }^{\circ}$ ( | I |  |  | 1 |  |  |  |  |
|  |  | 1 | - fract: $45^{\circ}+60^{\circ}+50^{\circ}$ to Axis | \| |  |  |  |  |  |  |  |
|  |  | I |  | C56524 | 15.8 | 17.8 | 2m | 88 | 0.11 | 3 | 12 |
|  |  | I | \|At: 13.1-14.6-Fractured \& healed with | C56523 | 21.6 | 23.6 | 2m | 92 | 0.11 | 5 | 73 |
|  |  | I | \| dolomitic carb. |  |  |  | \| |  | . 1 | - |  |
|  |  | I | 1 - Brecciated appearance \| | - 1 |  |  | I |  | I | 1 |  |
|  |  | 1 | \| with darker fragments | | I |  |  | 1 i |  | I | I |  |
|  |  | I | \|At: 15.8 - 17.5 - Same as 13.1-14.6 | | \| |  |  | 1 i |  | I | I |  |
|  |  | I | 1 - oxidized on fract. surfac | e |  |  | 1 I |  | I | I |  |
|  |  | 1 | \| \& carbonate present | | I |  |  | I |  | I |  |  |
|  |  | \| | \|At: 17.1-17.4-broken \& altered to clay | I |  |  | 1 i |  | 1 | 1 |  |
|  |  | 1 | \|At: 21.2 - 31.2 - darker grey ${ }^{\text {a }}$ \| | I |  |  | \| |  | I |  |  |
|  |  | \| | 1 - pyrite: up to 3\% \| | I |  |  | 1 i |  | 1 |  |  |
|  |  | I | euhedral \& fine grained \| |  |  |  |  |  | I | 1 |  |
|  |  | I | \| | - |  |  | 1 I |  | I |  |  |
|  |  | 1 | \| - fractures l-5 per cm | I |  |  |  |  | \| | I |  |
|  |  | I |  | I |  |  | I |  | I |  |  |
|  |  | I | \|At: 21.6 - 26.3 - orange/rusty mineral | | I |  |  |  |  |  |  |  |
|  |  | I | \| - occurs in crude veinlets | I |  |  | 1 \| |  | I |  |  |
|  |  | I | 1 and gashes \| | I |  |  | I |  | I |  |  |
|  |  | I | 1 - possible hematite on \| | I |  |  | 1 I |  | I |  |  |
|  |  | I | 1 relic bedding \| | I |  |  | 1 \| |  |  |  |  |
|  |  | \| | 1 - bedding $25^{\circ}$ to Axis \| | I |  |  | 1 \| |  | ; |  |  |
|  |  | I | \| - bedding cut by dolomitic| | 1 |  |  | 1 |  | I |  |  |
|  |  | I | \| veinlets (up to lmm) | | I |  |  | 1 |  | 1 |  |  |
|  |  | I | $150^{\circ}$ to Axis \| | I |  |  | 1 \| |  | 1 |  |  |
|  |  | 1 | \| - two series of veinlets: | | I |  |  | 1 |  | I |  |  |
|  |  | I | 1 lst: 50 to Axis | I |  |  | 1 |  | I |  |  |
|  |  | I | \| 2nd: $30^{\circ}$ to Axis \| | \| |  |  | 1 1 |  | I |  |  |
|  |  | 1 | \| Note: Complete core is fractured and | \| |  |  | 1 |  | I |  |  |
|  |  | I | \| healed with black mineral | | I |  |  | 1 |  | 1 |  |  |
|  |  | I | (no particular orientation) | ! |  |  | 1 |  |  |  |  |
|  |  | 1 |  | 1 |  |  |  |  |  |  |  |

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Hole No. 88-2

| Dep |  | \|Recovery $\mid$ | \| Description | \|Sample No.| | From | To | Width | Cu | AG | AS | AU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| from | to |  |  |  |  |  | lof Sample | ppm\| | ppm 1 | ppm | ppbl |
| 131.2 | 34.4 | 100\% | Tuff - light green/grey |  |  |  |  |  |  |  |  |
| \| |  | 1 \| | - fract: $30^{\circ}+40^{\circ}+45^{\circ}$ to Axis | 1 \| |  |  | I | \| |  |  |  |
| I |  | 1 I | - pyrite: 1\%, euhedral | 1 \| |  |  | I |  | I |  | 1 |
| 1 |  | 1 I | - minor dolomitic carb. on frature | 1 \| |  |  |  | I |  |  | 1 |
| I |  | 1 | - no bedding visible | 1 |  |  | 1 |  | I |  | 11 |
| \| |  | 1 \| | - dark green (chlorite) spots, | 1 |  |  |  | I |  |  |  |
| I |  | 1 \| | elongated slightly | 1 \| |  |  | I | 1 \| | I |  | 1 |
| I |  | 1 | - minor fracturing \& healing with | 1 |  |  | 1 | 1 |  |  |  |
|  |  | 1 | black mineral. | 1 |  |  | I | 1 | I |  | 1 |
|  |  | 1 1 | (no particular orientation) |  |  |  |  |  |  |  |  |
| 134.4 | 37.0 | $90 \%$ | Tuff - light grey/very light green |  |  |  | I |  |  |  |  |
|  |  | , | - fractures: $30^{\circ}+60^{\circ}$ to Axis |  |  |  | I |  |  |  |  |
| I |  | \| | - healed with dol. carb. | I |  |  | $1$ |  | 1 |  |  |
|  |  |  | - rare bleb of dark red hemalite |  |  |  |  |  |  |  |  |
| 137.0 | 40.1 | 100\% | Tuff - light (yellow) green |  |  |  |  |  | 1 |  |  |
|  |  | \| | - numerous 'micro' fractures: |  |  |  |  |  |  |  |  |
| $1$ |  | 1 | $20^{\circ}$ to Axis and filled with | I |  |  | I |  | I |  |  |
|  |  | 1 | dark green mineral |  |  |  |  |  |  |  |  |
| 1 |  | 1 | - pyrite: disem. \& euhedral | C56522 | 37.0 | 39.0 | 2m | 1081 | 0.11 | 5 | 61 |
|  |  | I | \|At: 40.0-40.1 - dark blood red on |  |  |  |  |  |  |  |  |
| , |  | , | fracture surface, | I |  |  | I |  | I |  |  |
|  |  |  | indications of movement |  |  |  |  |  |  |  |  |
| 140.1 | 49.3 | \| 100\% | Tuff - light grey/light green tinge |  |  |  |  |  | 1 |  |  |
|  |  |  | - looks darker due to black 'micro' | C56521 | 41.5 | 43.5 | 2 m | 82 | 0.11 |  |  |
| I |  | , | veinlets | $\mathrm{C} 56521$ | 48.5 | 50.5 | 2m | 75 | 0.11 |  | 1175 |
|  |  | I | - pyrite, generally <.5\% | C56521 |  |  | 2 |  |  |  |  |
| I |  | I | - fractures: 45 ${ }^{\circ}$ to Axis, healed | I |  |  | 1 |  | I |  |  |
| I |  | I | with white dolomitic carb. | , |  |  | , |  | 1 |  |  |
| i |  |  | \|(41.5-42.1 - $80 \%$ Recovery) |  |  |  | I |  |  |  |  |
| 1 |  | 1 | 1 - occasional blebs of hematite | 1 |  |  | I | 11 | 1 |  |  |
| , |  | 1 | \|At: 45.3 - Brecciated for 20 cm |  |  |  | 1 |  | , |  | I |
|  |  | 1 I | \| - pyrite <l\% very fine grained | I |  |  | 1 | 1 |  |  |  |
| I |  | 1 | \|At: 47.7- Dark red, hematite on fracture | I |  |  | 1 |  |  |  |  |
|  |  | 1 | surface | 1 |  |  | I | 1 | I |  |  |
|  |  | 1 | \|At: 49.1 - tuff purple tinge | I |  |  | I | 1 | 1 |  |  |
|  |  | 100\% | - up to 28 pyrite, fine grained. | 1 |  |  | I |  | 1 |  |  |
| 149.3 | 54.4 | 100\% | Tuff - light green/light grey |  |  |  | I |  |  |  |  |
| + |  | 1 | - pyrite: <1\% , diseminated, fine gra | ined. |  |  | 1 |  | 1 |  | 1 |
| I |  | 1 | - fract: $30^{\circ}+40^{\circ}$ to Axis | 1 |  |  | 1 | 11 | I |  |  |
| I |  | , | - healed with dolomitic (white) carb | 1 |  |  |  | I | I |  | 1 |
| I |  | , | - minor amounts of black mineral in | 1 |  |  | I |  |  |  | 1 |
| 1 |  | 1 | 1 'micro' veinlets \& gashes /cont. | 1 |  |  | 1 | 1-1 | I |  | , |

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| Dept |  | \|Recovery | Description | Sample No. | From | To | Width | CU | AG | AS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to |  | \|AE: $53.9-20 \mathrm{~m}$ dolomitic (white) veinlet |  |  |  | Iof Sample | ppm ${ }^{\text {\| }}$ | ppm\| | ppm\| | ppb |
| 1 |  | 1 | with broken angular fragments | 1 | I |  | I |  | 1 |  |  |
| 1 I |  | 1 \| | \|At: 54.0 - Orthoclase, rusty orange in |  | \| | \| | \| |  | 1 | I |  |
| \| |  | \| | \| coarse veinlets | 1 | , | I |  |  | \| |  |  |
| \| 54.4 | 60.0 | 100\% | Tuff - brecciated |  |  | I |  |  | \| |  |  |
|  |  |  | \| - fracture: $40^{\circ}$ white dol. carb. |  |  | \| | 1 | , | \| |  |  |
| 1 |  |  | 5 $50^{\circ}$ black mineral |  | I | I | \| |  | \| |  |  |
| 1 |  | 1 | - pyrite: 1-2\% disem. |  | 1 | \| | 1 |  | 1 |  |  |
| 1 1 |  |  | \|At: 60.5-60.8 - up to 20\% pyrite in |  |  |  | 1 |  | I |  |  |
| 1 |  | 1 | \| blebs, fine grained | C56519 | 59.0 | 1 61.0 | 2m | 1251 | 0.21 | 4 | 36 |
| 1 1 |  |  | often a mesh texture | C56518 | 98.5 | 1100.5 | 2m | 87 | 0.11 | 3 | 91 |
| 1 |  | 1 | \| | | C56517 | 1108.6 | 1110.6 | 2m | 96 | 0.21 | 13 | 68 |
|  |  |  | 1- green clays fill broken fractures |  |  |  |  | 1 |  |  |  |
| 160.0 | 68.5 | 100\% | \| Tuff - mottled appearance |  | I | I | 1 | I |  |  |  |
|  |  |  | - fract: 250 - white dol. carb. |  | \| | I | 1 |  | I |  |  |
| 1 |  |  | 45 ${ }^{\circ}$ - serpentine on fract. |  | \| | 1 |  | I | I |  |  |
| 1 |  |  | - black mineral, dark red when |  | I | , | \| | \| | \| |  |  |
| 1 |  |  | scratched \& occures in veinlets |  | I | I |  | I | 1 |  |  |
| 1 |  | 1 | in 'micro' fractures |  |  | 1 | 1 | I | I |  |  |
| 1 |  |  | - gen. $40^{\circ}$ to Axis |  | \| | I | I | I | \| |  |  |
|  |  |  | - pyrite: <.5\% fine grained |  |  | , | $1 \quad 1$ | I | 1 |  |  |
| 168.5 | 110.61 |  | Tuff - light grey/green |  | 1 | 1 | 1 |  |  |  |  |
| 1 |  |  | - mottled or brecciated look |  |  | , | I |  | I |  |  |
| I |  |  | - fract: $25^{\circ}$, white dolomitic core |  | I | I | । | I |  |  |  |
| 1 |  | 1 | and hematitic veining |  | I | , | 1 | 1 | I |  |  |
| , |  |  | $35^{\circ}$, serpentine on fract. |  | 1 | 1 | 1 |  | I |  |  |
| 1 |  | 1 | 1 surface |  | \| | I | 1 |  | 1 |  |  |
| \| |  |  | \| Note: veining (white dolom.) occurs after |  | I | 1 | 1 | 1 | 1 |  |  |
| 1 |  | 1 | \| brecciation (or mottling) |  | \| | I | I |  | I |  |  |
| 1 |  | 1 | \| - pyrite: <.5\%, euhedral \& disem. |  |  | 1 | I | ' | \| |  |  |
| 1 |  | 1 | \| Note: definite brecciation at: |  | \| | 1 | I |  | 1 |  |  |
| 1 |  | 1 | \| 67.6 m healed with dolom. carb. 74.0 ml |  |  | I | \| | I | \| |  |  |
| 1 |  | 1 | \| | |  | 1 | 1 | 1 | 1 | 1 |  |  |




| Dept |  | \|Recovery | Description | \|Sample No. | From | To | Width | CU | AG | AS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to |  |  | 1 |  |  | Iof Sample | ppml | ppm | ppm | ppbl |
| 0 | 1.8 | casing | \| Tuff - Light Green/Grey |  |  |  |  |  |  |  |  |
| 1.8 | 11.3 | \| 100\% | \| Fractures: lst - 45 ${ }^{\circ}$ | 1 |  |  | I |  | 1 |  | I |
|  |  |  | \| 2nd - 65 ${ }^{\circ}$ | \| |  |  | 1 |  | 1 |  |  |
| I |  | I | 3rd - $25^{\circ}$ to Axis | 1 |  |  | 1 | 1 | \| |  | I |
| I |  | I | \| - minor bleaching on fracture walls | 1 |  |  | $1 \times$ | I | I |  |  |
| \| |  | I | \| - minor quartz veinlets - $70{ }^{\circ}$ to Axis | 1 |  |  | 1 |  | I |  | I |
| 1 I |  | I | 1.5 cm thick | 1 |  |  | I |  | 1 |  |  |
| 1 I |  | I | 1 - oxidation on fracture surface - $35^{\circ}$ | 1 \| |  |  | 1 | I | 1 |  |  |
| 1 \| |  | I | to Axis | \| |  |  | I |  | \| |  |  |
| I |  | I | \| - most fractures healed with white | \| |  |  | 1 | 1 | 1 |  |  |
| I |  | I | \| carbonate and dark green mineral on |  |  |  | \| |  | 1 |  |  |
| I |  | I | contact wall. | C56532 | 12.2 | 14.2 | 2m | 76 | 0.31 | 4 | 1 |
| I |  | I | \| - pyrite: <.5\% diseminated |  |  |  | 1 |  |  |  |  |
| 1 |  | I | \|At: 10.1-11.3 considerable bleaching to |  |  |  | 1 | I | 1 |  |  |
| 1 I |  | 1 | \| a tan (with pink tinge) colour |  |  |  | I |  |  |  |  |
| \| $11.3 \mid$ | 23.3 | I | Interbedded argillite \& bleached tuff | C56531 | 17.4 | 19.4 | I | 20 | 0.11 | 5 | 2 |
|  |  | I | 1 - Top contact at $25^{\circ}$ to Axis |  |  |  | I |  |  |  |  |
| 1 I |  | I | 1-Fracture $25^{\circ}+40^{\circ}$ to Axis |  |  |  | 1 | I | \| |  |  |
|  |  | I | \|At: 13.4-14.1 broken and oxidized fragmts | 1 |  |  | 1 | I | I |  |  |
| , |  | I | \|At: 15.2-15.6 Brecciated and mottled |  |  |  | $1 \times$ | I | I |  |  |
| I |  | I | \| - carbonate + dol. carb. in fractures |  |  |  | I | I | I |  |  |
| 1 |  | 1 | and gashes |  |  |  | 1 |  | I |  |  |
| 1 I |  | I |  | 1 |  |  | \| | I | 1 |  |  |
| 1 I |  | I | \|At: 20.4 - Quartz veinlet, lcm | 1 |  |  | 1 |  | I |  |  |
| 1 I |  | I | \| orientation unclear | I |  |  | I |  | I |  |  |
| , |  | I |  | 1 |  |  | 1 | । | 1 |  |  |
| 1 I |  | I | \| - slightly graphitic on fracture and | 1 |  |  | I |  | I |  |  |
| 1 I |  | I | \| oxiozed | 1 |  |  | I |  | I |  |  |
| 1 I |  | I | \| - becoming bleached towards 23.3m | I |  |  | 1 |  |  |  |  |
| \| 23.31 | 45.1 | I | \| Tuff - bleached - pale green | C56530 | 34.4 | 36.0 | 2m | 1191 | 0.31 | 31 | 1 |
|  |  | I | 1 - fracture: $30^{\circ}+40^{\circ}+60^{\circ}$ to axis |  |  |  | \| |  |  |  |  |
| 11 |  | 1 | 1 -serpentine on fractur surface | C56529 | 40.4 | 42.4 | 2m | 33 | 0.11 | 5 | 1 \| |
| 11 |  | 1 | 1 | 1 1 |  |  | I |  |  |  |  |
| 1 I |  | 1 | \|At: 27.1 - Orthoclase porphyry cutting | $1 \times$ |  |  | I |  |  |  |  |
| \| |  | 1 | 1 at $30^{\circ}+40^{\circ}$ | 1 |  |  | I |  |  |  |  |
| 11 |  | 1 | - Bleached for 10 cm - both sides | 1 |  |  | I |  |  |  |  |
| 1 |  | I | I | 1 |  |  | 1 | - | 1 |  | - |

Hole No. 88-4

| Dep |  | \|Recovery | Description | Sample No. 1 | From | To | Width | Cu | AG | AS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to | 1 |  |  |  |  | Iof Sample | ppm\| | ppm\| | ppml | ppbl |
|  |  | 1 | TAt: 27.9 - Orthoclase porphyry (etc) |  |  |  |  |  |  |  |  |
| I |  | , | - Minor blebs of pyrite, | 1 I |  |  | 1 \| | I | \| | I | I |
| I |  | , | \| fine grains | 1 1 |  |  |  |  | I | I | 1 |
| , |  | 1 | 1 - Carb \& Dol. Carb. veinlets | 1 |  |  | 1 | 1 | 1 | \| | 1 |
| \| |  | I | 10.5 - 10 mm - cut at $30^{\circ}$ | 1 |  |  | 1 | I | I | I | 1 |
| I |  | \| |  | 1 |  |  | 1 | I | 1 | 1 |  |
| I |  | 1 | \|- Minor dark red hematite filling gashes | 1 |  |  | 1 | 1 | I | 1 | I |
| I | , | 1 | \|- Generally; Pyrite < .5\% | 1 |  |  | 1 | 1 | I |  | I |
| \| |  | \| |  | 1 |  |  | 1 | I | I |  |  |
| I | I | 1 | \|At: 30.5-30.7-Brecciation with < . 5 \% | 1 |  |  | 1 | 1 | I |  |  |
| I |  | , | 1 blebs | 1 |  |  | 1 |  | I |  |  |
| I | I | I | - Pyrite, fine grained | 1 |  |  | 1 |  | I |  |  |
| 1 |  | , | (up to . 5 cm Dia) | 1 |  |  | 1 |  | 1 |  |  |
| \| | \| | I | -1\% Disem. Euhedral | 1 |  |  | 1 I | \| | 1 |  |  |
| I |  | , | \|At: $31.2-\mathrm{Qtz}$ filled breccia matrix | 1 |  |  | 1 |  | 1 |  |  |
| \| | \| | I | 1 - Generally motlled from | 1 |  |  | 1 I |  | 1 |  |  |
| \| |  | 1 | 30.0-34.0 | 1 |  |  | 1 |  |  |  |  |
| I | I | I | \|At: 32.6-32.8-Black argillic layer | 1 |  |  | 1 | I | I |  |  |
| , |  | 1 \| | \| - < . $5 \%$ pyrite - fine | 1 |  |  | 1 \| |  | I |  |  |
| I | \| |  | 1 grained - disem. | 1 |  |  | 1 | I | 1 |  |  |
| I |  | , | \|At: 34.0-35.0 - Tuff/Argillite contact | 1 |  |  | 1 | I | 1 |  |  |
| \| | \| | 1 \| | 1 - $35^{\circ}$ to Axis | 1 |  |  | 1 \| | I | I |  |  |
| I |  | I | - Argillitetends to be | 1 |  |  | 1 I | I | I |  |  |
| I |  | , | 1 brecciated with tuff | 1 |  |  | 1 | I | 1 |  |  |
| I | I | I | down to 35.0 | 1 |  |  | 1 | I | I |  |  |
| I |  | , | \|At: 34.8 - Pyrite - 3-4\% \& locally up | 1 |  |  | , |  | I |  |  |
| I | I | I | \| to 10\% | 1 |  |  | , | \| | 1 |  |  |
| I |  | I | \|At: 40.4-41.4-Bleached Tan/White color |  |  |  | 1 | I | 1 |  |  |
| I | \| | I | \| - Carb. present (lots) | , |  |  | 1 1 |  | I |  |  |
| I |  | , | \|At: 42.6-42.9-Bleached Tan/Pinkish | 1 |  |  | 1 | I | I |  |  |
| \| | I | I | 1 - Lots of carbonate in | 1 i |  |  | $1 \times$ | I | 1 |  |  |
| \| | I | I | 1 section | 1 I |  |  | 1 | I | 1 |  |  |
| I | 1 | 1 | \|At: 43.6 - Mottled \& highly fractured | 1 I |  |  | , | I | I |  |  |
| , | \| | I | \| - healed with very dark red | 1 |  |  | I | I | 1 |  |  |
|  | 1 | , | hematite and dol. carb./Qtz | 1 |  |  | , |  | I |  |  |
| 1 | 1 | 1 | 1 | 1 |  |  | 1 | - | I |  |  |

Hole No. 88-4

| Dep |  | \|Recovery | Description | Sample No.\| | From | To | Width | CU | AG | AS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \|from | to |  |  |  |  |  | \|of Sample | ppm\| | ppm\| | ppm | ppbl |
|  |  |  | \|At: 43.2 - Orthoclase porphyry veinlet |  |  |  |  |  |  |  |  |
| I |  | , | ) (lcm) $20{ }^{\circ}$ to Axis | 1 |  |  | I | I | I |  |  |
|  |  |  | 1- Possible bedding $15^{\circ}$ to Axis |  |  |  | I | I | I |  |  |
| 145.1 | 51.0 | 100\% | \| Tuff - light green/light green | 1 |  |  | 1 | I |  |  |  |
|  |  |  | - possible oxidation on fracture | 1 |  |  | 1 I | 1 | I |  |  |
| , |  |  | surgace |  |  |  | 1 | I | I |  |  |
| I |  | 1 | - bleaching \& brecciation (mottled) | 1 |  |  | 1 | 1 | I |  |  |
|  |  |  | throughout section |  |  |  | 1 |  |  |  |  |
| 151.0 | 60.4 | 100\% | \|Argillite - black | C56528 | 48.2 | 50.1 | 2m | 82 | 0.11 | 9 | 1 |
|  |  |  | 1 - bleached in sections | 1 |  |  |  |  |  |  |  |
| 1 |  | 1 \| | - fractures: $20^{\circ}+40^{\circ}$ - healed | C56527 \| | 54.3 | 56.3 | 2m | 1081 | 0.51 | 19 | 1 |
| \| |  | 1 \| | with dol. carb. \| | C56527 |  |  | I |  |  |  |  |
|  |  |  | \|At: 52.7-53.5-Bleached and mottled | 1 \| |  |  | I |  | I |  |  |
| 160.4 | 63.1 | 100\% | Tuff - pale green $0^{\circ}+55^{\circ}$ |  |  |  | 1 | 1 | 1 |  |  |
| , |  | 100\% | - fracture: $25^{\circ}+55^{\circ}$ to Axis. \| | I |  |  | I |  | I |  |  |
| \| |  | 1 \| | - bleached, producing mottled effect\| |  |  |  | I | I | I |  |  |
| 1 |  | 11 | - pyrite <. 5\%, fine grained, disem. | I |  |  | I |  | I |  |  |
| I |  | \| | | - minor oxidation on fracture \| | I |  |  | I | 1 |  |  |  |
| , |  | 1 \| | surface. |  |  |  | , |  | I |  |  |
|  |  | 1 \| | - carb. throughout section. |  |  |  | I |  | I |  |  |
| 163.1 | 66.8 | 100\% | Argillite $0^{\circ}$ | 1 |  |  | 1 |  |  |  |  |
| , |  | 1 \| | - fractures: $40^{\circ}+55^{\circ}$ to Axis | 1 |  |  | \| |  |  |  |  |
| \| |  | 1 \| | - carbonate healed gashed \& fractures |  |  |  | I | 1 | I |  |  |
| I |  | 1 | \| - pyrite - 1\%, disem. and euhedral. |  |  |  | I |  |  |  |  |
| 1 |  | I | - pyrite appears to favour fractures and \| |  |  |  | I |  | I |  |  |
|  |  |  | bleached areas. |  |  |  | 1 i |  |  |  |  |
| 166.8 | 69.7 | 100\% | Tuff - light green \& mottled/bleached | 1 |  |  | 1 |  |  |  |  |
| \%6.8 |  | 100\% | - fractures $40-55^{\circ}$ to Axis |  |  |  | 1 |  |  |  |  |
| \| |  | , | - carb. throughout section |  |  |  | , | I |  |  |  |
|  |  | , | - carb. veinlets (partially dol.) |  |  |  | 1 | 1 | I |  |  |
| I |  | I | lmm - 10 mm wide |  |  |  | I | I | I |  |  |
|  |  | I | - pyrite: <l\%, disem. \& euhedral. |  |  |  | , | I | I |  |  |
| 169.7 | 70.1 | 100\% | Feldspar porphyry - orthoclase - euhedral |  |  |  | 1 |  |  |  |  |
|  |  |  | - contact angle $40^{\circ}$ to Axis । |  |  |  | 1 | 1 | 1 |  |  |
| I |  | 1 | Note: Bleaching on top . 5 m (in tuff above) | - |  |  | 1 | I | 1 |  |  |
| i |  | I | - carb. filled fract. in porphyry. |  |  |  |  | 1 | 1 |  |  |

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| Dep |  | Recovery | \| Description | \|Sample No.| | From | To | Width | CU | AG | AS | AU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to |  |  |  |  |  | Iof Sample | ppm\| | ppm\| | ppm\| | ppbl |
| 170.1 | 73.2 | 100\% | Tuff - dark green/black |  |  |  |  |  |  |  |  |
| 1 |  | 1 | - multiple fractures, bleached | 1 |  |  | I | I | 1 |  |  |
| 1 |  |  | \| on walls. | 1 1 |  |  | I | I | \| |  |  |
| \| |  | 1 | - almost brecciated |  |  |  | 1 | - | I |  |  |
| \| |  |  | \| - fractures: $15^{\circ}+50^{\circ}+60^{\circ}+25^{\circ}$ | \| |  |  | \| | \| | I |  |  |
| I |  | 1 | \|At: 72.9 - Qtz veinlet - 2 cm thick |  |  |  | I | I | \| |  |  |
| 1 |  | 1 | \| - $20^{\circ}$ to Axis | 1 |  |  | I |  | \| |  |  |
|  |  | 1 | \|At: 72.9-73.2-Bleaching |  |  |  | 1 | 1 | I |  |  |
| 173.2 | 78.6 | 100\% | \| Feldspar porphyry - othoclase | 1 |  |  | 1 |  | 1 |  |  |
| , |  | 1 | $\mid$ - rhoms. - . 5 cm , subhedral-euhedral | 1 |  |  | I | I | \| |  |  |
| \| |  | 1 | 1 - carb. on fractrues |  |  |  | 1 |  |  |  |  |
| 1 |  | 1 | 1 - bottom contact $70^{\circ}$ to Axis | C56526 | 73.0 | 75.0 | 2m | 8 | 0.11 | 3 | 12 |
| \| |  | 1 | \| - fract. $30^{\circ}+60^{\circ}$ and healed with |  |  |  | \| | - |  |  |  |
| \| |  | \| | \| white carbonate | 1 \| |  |  | \| | \| | \| |  |  |
| \| |  | 1 | \| - pyrite <.5\% euhedral - diseminated |  |  |  | I |  | I |  |  |
| \| |  | 1 | \| - minor palgioclase present | 1 |  |  | I |  | I |  |  |
| \| |  | 1 | 1 (white rhoms.) |  |  |  | 1 |  |  |  |  |
| I | I | 1 | 1 Tuff - dark (black) green 0 | 1 |  |  | 1 |  |  |  |  |
| \| |  | 1 | $1-\mathrm{fractures} 25^{\circ}+35^{\circ}+50^{\circ}$ | C56525 | 97.0 | 99.2 | 2m | 66 | 0.11 | 9 | 1 |
| I | I | 1 | 1 - variable bleaching | 1 |  |  | 1 |  |  |  |  |
| I |  | 1 | \| - carbonate on fract. surface | 1 |  |  | \| |  | \| |  |  |
| 1 | , | 1 | \|At: 82.6-83.2 - intense fracturing | 1 \| |  |  | \| |  | \| |  |  |
| I |  | , | \| - occasional brecciation | 1 \| |  |  | I |  | \| |  |  |
| \| | , | 1 l | \| - minor orthoclase | 1 |  |  | \| |  | I |  |  |
| \| |  | 1 | , | 1 \| |  |  | I |  | \| |  |  |
| \| | , | 1 | 1- Dolomitic carbonate diseminated | 1 \| |  |  | I |  | \| |  |  |
| \| |  | 1 | \| throughout section. | 1 I |  |  | I |  | \| |  |  |
| 1 | I | I | 1- pyrite: <.5\% | 1 |  |  | I |  | I |  |  |
| \| |  | , | \|At: 85.9-86.4 - intense fracturing | 1 |  |  | 1 |  | \| |  |  |
| I | I | 1 | \| - slight red tinge in rock |  |  |  | 1 |  | 1 |  |  |
| I | , | \| | 1 hemitite ${ }^{\text {a }}$, | \| |  |  | 1 |  | 1 |  |  |
| , | I | 1 | 1 - fract. $30^{\circ}$ healed with | 1 I |  |  | I |  | I |  |  |
| I | I | , | 1 carb. (white) | 1 |  |  | 1 |  | I |  |  |
| 1 | 1 | 1 | 1 | 1 |  |  | 1 | 1 | 1 |  |  |

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| Depth |  | \|Recovery | Description | \|Sample No. | From | To | Width | CU | AG | AS | AU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \|from | | to 1 |  |  |  |  |  | \|of Sample| | ppm\| | ppm\| | ppm | ppbl |
|  |  |  | TAE: 88.5-88.7- fedspar porphyry |  |  |  |  |  |  |  |  |
| \| |  | I | (orthoclase) with | 1 |  |  | 1 | 1 |  |  |  |
| I | \| | \| | greenish matrix | 1 \| |  |  | I | I | I |  |  |
| 1 |  | 1 | - <.5\% pyrite - anhedral | 1 |  |  | 1 \| | I | 1 |  |  |
| 1 i | \| | \| | - subhedral - feldspar | I |  |  | 1 1 | I | I |  |  |
| \| |  | I | - minor plagioclase present | 1 - |  |  | 1 I | I | 1 |  |  |
| I |  | \| | - 2 mm Dia. | 1 \| |  |  | 1 1 | I | I |  |  |
| \| |  | , | \|Note: between 88.7-98.8 | 1 - |  |  | 1 1 | I | I |  |  |
| I |  | I | \| late fracturing cuts all alteration | 1 |  |  | 1 | I |  |  |  |
| 1 I |  |  | and veilets ect., $85^{\circ}$ to Axis | 1 |  |  | 1 | I | \| |  |  |
| 1 \| |  |  |  | \| |  |  | 1 \| | \| | I |  |  |
| \| |  |  | \|At: 97.2-100.3 - very mottled | \| |  |  | 1 \| | I | 1 |  |  |
| I |  |  | 1 - carb. in fractures and | 1 |  |  | 1 1 | I |  |  |  |
| \| |  |  | veinlets | 1 \| |  |  | 1 \| | 1 | I |  |  |
| 1 \| |  |  | \|103.6-105.2-60\% recovery | $1 \times$ |  |  | 1 \| | । | I |  |  |
| 1 I |  |  | 1105.2-106.1-60\% recovery | 1 \| |  |  | 1 1 | I |  |  |  |
|  |  |  |  | 1 |  |  | 1 | 1 |  |  |  |
| \|103.6| | 112.81 | 100\% | Tuff - light green | 1 1 |  |  | 1 \| | \| | 1 |  |  |
|  |  |  |  |  |  |  | 1 1 | 1 | I |  |  |
| 1 i |  |  |  | 1 |  |  | 1 | 1 | 1 |  |  |
| 1 I |  | I | - epidote occuring as replacement | \| |  |  | 1 \| | I |  |  |  |
| \| |  | \| | along fractures or adjacent | 1 1 |  |  | 1 \| | I |  |  |  |
| 1 \| |  |  | to fract. | 1 |  |  | , | I |  |  |  |
| 1 I |  | \| | \| Note: 103.6 - 106.1 - very broken | $1 \times$ |  |  | , | I |  |  |  |
| 1 I |  | I | Note: 103.6 106.1 very broken | $1 \times$ |  |  | 1 1 | I |  |  |  |
| 1 \| |  |  | 1 ) | $1 \times$ |  |  | 1 1 | ; | I |  |  |
| 1 I | 112.81 | \| END |  | 1 |  |  | 1 | 1 |  |  |  |
| 1 \| |  | OF |  | 1 |  |  | 1 | , |  |  |  |
| 1 |  | \| HOLE | \| | $1 \times$ |  |  | , | I |  |  |  |
| 1 \| |  |  |  | 1 |  |  | I | I | 1 |  |  |
| 11 |  |  |  | - |  |  | 1 |  |  |  |  |



| Dep |  | \|Recovery | Description | Sample No. | From | To | Width | CU | AG | AS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to |  |  |  |  |  | Of Sample | ppm 1 | ppml | ppm | ppbl |
| 0 | 4.9 | casing |  |  |  |  |  |  |  |  |  |
| 14.9 | 11.6 | 100\% | Tuff - banded | 1 |  |  | 1 |  | I |  | 1 |
| I |  | 1 | - dark green, white/cream layers |  |  |  | I | 1 | 1 |  |  |
| I |  | 1 | - minor carb. on fractures |  |  |  | 1 |  | I |  |  |
| I |  | 1 | - pyrite: 1\%, tends to follow relic |  |  |  |  |  |  |  |  |
| \| |  | I | bedding | C565545 | 14.2 | 16.2 | 2m | 84 | 0.11 | 7 | 1 |
| I |  | I | - bedding: $30^{\circ}$ to Axis |  |  |  |  |  | 1 |  | I |
| I |  | , | - fract:30 + // to bedding and |  |  |  |  |  | I |  |  |
|  |  | I | $30^{\circ}$ perpendicular to bedding |  |  |  |  |  | 1 |  |  |
| 111.6 | 14.2 | 100\% | ISame as above \| |  |  |  | 1 |  | I |  |  |
|  |  | I | \| - core broken | |  |  |  |  |  | I |  |  |
| 1 |  | 1 | 1 - serpentine of fracture surface |  |  |  | I |  | I |  |  |
| 1 |  | I | \| - slight increase in carbonate |  |  |  | 1 |  | I |  |  |
|  |  | 1 | - minor Qtz filled gashes |  |  |  | 1 |  | I |  |  |
| 114.2 | 15.2 | 75\% | Tuff - Same as above |  |  |  |  |  |  |  |  |
|  |  | 1 | - very broken and oxidized |  |  |  |  |  | I |  |  |
|  |  |  | - sample 14.2-16.2m |  |  |  |  |  | I |  |  |
| 115.2 | 23.0 | 100\% | Tuff - dark green/dark grey/black- banded |  |  |  | I |  | I |  |  |
|  |  | 1 | - pyrite: very fine grained \| |  |  |  |  |  |  |  |  |
| \| |  | I | < .5\% euhedral |  |  |  | I |  | I |  |  |
| $1$ |  | I | - tends to follow fractures \| |  |  |  | I |  | I |  |  |
| I |  | 1 | - fract: $35^{\circ}+45^{\circ}$ to Axis |  |  |  | I |  | I |  |  |
| \| |  | , | - bedding: $50^{\circ}$ to Axis \| |  |  |  | I |  | I |  | I |
| I |  | 1 | (bedding changed at 15.2 m ) |  |  |  | I |  | I |  | I |
| 1 |  | I | - carb. filled fractures and Quartz |  |  |  |  |  | I |  |  |
| I |  | I | 1 filled gashes \& fract. |  |  |  | I |  | 1 |  | 1 |
| 1 |  | I | \| 18.3 - 19.1 - 80\% Recovery) |  |  |  |  |  | I |  | I |
| I |  | 1 | \| Tuff \& Argillic layers - banded |  |  |  |  |  |  |  |  |
| I |  | I | \| (26.5-26.8-65\% Recovery) | C56544 | 24.2 | 26.2 | 2m | 72 | 0.21 | 32 | 2 |
| I |  | ! | \| - light grey/cream colour |  |  |  | 1 |  | 1 |  |  |
| 1 |  | 1 | - bleached \& altered to clays |  |  |  | I |  |  |  |  |
| I |  | I | - carb \& dol. carb. (white) along |  |  |  | I |  | I |  |  |
| I |  | , | fract. \& to lesser extent - disem.l |  |  |  | I |  |  |  |  |
| $1$ |  | 1 | \|At: 25.4-26.3m | |  |  |  | I |  |  |  |  |
| $1$ |  | I | \| pyrite: <.5\% - fine grained, disem. |  |  |  | I |  |  |  |  |
|  |  | 1 | I Prrel | 1 |  |  | 1 |  | 1 |  |  |

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| Dep |  | \|Recovery | Description | Sample No.\| | From | To | Width | CU | AG | AS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to |  | Sample 24.2-26.2 |  |  |  | Of Sample | ppm\| | ppm\| | ppm | ppb\| |
| 126.5 | 29.3 | 100\% | \|Argillite with tuff banding | 1 |  |  | 1 | 1 |  |  |  |
| 1 |  | 1 \| | \| (26.8-27.7-90\% Recovery) | 1 \| |  |  | \| | I | I |  |  |
| I |  | 1 | 1 - pyrite: <2\% in argillite - | 1 \| |  |  | I | I | I |  |  |
| 1 |  | \| | anhedral \& euhedral | 1 |  |  | \| | I | I |  |  |
| I |  | 1 | - carb. \& dol. carb ${ }^{\text {c }}$ on fractures | 1 |  |  | I | I | 1 |  |  |
| \| |  | 1 \| | - fract: $25^{\circ}+30^{\circ}$ to Axis | 1 |  |  | I | I |  |  |  |
|  |  | 1 | - minor bleaching in sections | 1 |  |  | I | I | I |  |  |
| \| 29.3 | 30.7 | 100\% | \|Tuff - bleached-light grey/light tan |  |  |  | 1 | I | 1 |  |  |
| 1 |  | 1 |  | 1 |  |  | I | 1 | I |  |  |
| 1 |  | 1 I | - fract: $30^{\circ}$ (bedding) $+55^{\circ}+75^{\circ}$ | 1 |  |  | I |  |  |  |  |
|  |  | 1 | - healed with white carb./dol. | 1 |  |  | \| | I | I |  |  |
| 130.7 | 33.7 | 100\% | \|Tuff - banded - green | 1 |  |  | 1 | 1 | 1 |  |  |
|  |  | 1 | $\mid$ - bedding $50{ }^{\circ}$ to Axis | 1 |  |  | 1 | I |  |  |  |
| , |  | 1 1 | - bleaching by orthoclase vein | 1 |  |  | I | \| |  |  |  |
| I |  | I | 2mm wide, bleached zone | 1 1 |  |  | 1 | I |  |  |  |
|  |  | 1 | 10 cm both sides | 1 |  |  | 1 | I |  |  |  |
| I |  | I | - veinlet: $45^{\circ}$ to Axis |  |  |  | \| | I | 1 |  |  |
| \| |  | 1 \| | - pyrite: <l\%, fine grained, euhedral\| |  |  |  | \| | I |  |  |  |
| 1 |  | 1 \| | and // to bedding \| |  |  |  | 1 | I |  |  |  |
| I |  | 1 | \|At: 32.4 - minor Qtz vein, 8 mm wide |  |  |  | 1 | I |  |  |  |
| 1 |  | 1 | 1 - $25^{\circ}$ to Axis, no mineralization |  |  |  | I |  |  |  |  |
|  |  | 1 1 | - carb on 'micrg' fract. in | 1 |  |  | 1 | - |  |  |  |
| - |  | 1 I | veinlet at $30^{\circ}$ to Axis |  |  |  | 1 | I |  |  |  |
| 1 |  | 1 1 | \|At: 33.4-Qtz \& pink/orange orthoclase |  |  |  | I | I |  |  |  |
|  |  | 1 | \| veinlet |  |  |  | 1 |  |  |  |  |
| 133.7 | 34.8 | 100\% | \| Argillite - black $0^{\circ}$ |  |  |  | , | 1 |  |  |  |
| , |  | \| | \| - fract: $30^{\circ}+55^{\circ}+75^{\circ}$ to Axis |  |  |  | 1 |  |  |  |  |
|  |  | 1 | \|At: 33.80-33.82-Quartz veinlet |  |  |  | 1 |  |  |  |  |
| 134.8 | 43.1 | 100\% | \| Tuff - light green -banded with argillite| |  |  |  | 1 | 1 |  |  |  |
| \| |  | 1 | \| - slight increase in carb. than |  |  |  | 1 |  |  |  |  |
| 1 |  | 1 | above ${ }^{\circ}$ | 1 |  |  | , |  |  |  |  |
| 1 |  | 1 | \| - bedding: $55^{\circ}$ to Axis | 1 |  |  | , |  |  |  |  |
| I |  | $1 \times$ | \| Note: Tuffs are carbonated |  |  |  | 1 | 1 |  |  |  |
| 1 |  | 1 |  | 1 |  |  | 1 |  |  |  |  |

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| Dep |  | \|Recovery $\mid$ | Description | Sample No. | From | To | Width | CU | AG |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to |  |  |  |  |  | lof Sample | ppm\| | ppml | ppm\| | ppbl |
|  |  |  | \| Argillite - carb. free except on fract. |  |  |  |  |  |  |  |  |
| \| |  | I | \| - pyrite: tuff: <.5\% euhedral |  |  |  | 1 |  |  |  |  |
|  |  |  | \| - argill: <.l\% espec. along | |  |  |  | 1 |  | 1 |  |  |
| I |  | , | \| bedding ( $40^{\circ}$ to Axis) \| |  |  |  | I |  | I | I | I |
| ! |  | 1 I | \| - minor fract. \& healing with | |  |  |  | I |  | 1 | 1 | I |
| \| |  | I | \| carb. and rare quartz | |  |  |  | I |  | I |  |  |
| \| |  | 1 I | \| - bleaching tends to occur // |  |  |  | I |  |  | I |  |
|  |  |  | \| to bedding |  |  |  | 1 |  |  |  |  |
| 143.1 | 49.3 | 100\% | \|Same as 34.8-43.1 But... |  |  |  | 1 |  | \| |  |  |
|  |  | 1 \| | \| - mainly argillite banded |  |  |  | I |  | I |  |  |
| I |  | 1 | I with tuff |  |  |  | I |  | I |  |  |
| I |  | 1 | \| - minor bleaching along |  |  |  | I |  |  |  |  |
|  |  | 1 | 1 bedding |  |  |  | 1 |  | 1 |  |  |
| 149.3 | 58.4 | 1 | \|Same as 34.8-43.1 But more mottled |  |  |  | I |  |  |  |  |
| \| |  | 1 | \| - progressively more |  |  |  | 1 |  | 1 |  |  |
| \| |  | I | \| bleaching \& fract. healing | C56543 | 47.3 | 49.3 | 2 m | 71 | 0.21 | 6 | 1 |
|  |  | I | 1 with carbs/dol.carb. | C56542 | 50.0 | 52.0 | 2m | 65 | 0.21 | 41 | 9 |
|  |  | , | 1 - fract: $35^{\circ}+50^{\circ}$ to Axis | C5652 |  |  | I |  |  |  |  |
| I |  | 1 1 | \| - bedding: 50-55 ${ }^{\circ}$ to Axis |  |  |  | I |  |  |  |  |
| I |  | I | \|Note: At 51.8-52.0 slight red/brown |  |  |  | 1 |  | 1 |  |  |
| \| |  | , | \| tinge to rock |  |  |  | 1 |  |  |  |  |
| 158.4 | 71.0 | 100\% | \| Argillite - banded with minor tuff | C565541 | 60.4 | 62.4 | 2m | 74 | 0.31 | 5 | 1 |
| \| |  | 1008 | \| - bedding: $55^{\circ}$ to Axis | C565540 | 62.4 | 64.4 | 2m | 71 | 0.21 | 6 | 1 |
| 1 |  | I | 1 - fract.: $25^{\circ}+35^{\circ}$ to Axis |  |  |  | I |  |  |  |  |
| 1 |  | I | 1 - pyrite: along bedding |  |  |  | I |  |  |  |  |
| I |  | I | \| <l\% euhedral |  |  |  | I |  | I |  |  |
| 1 |  | , | \|At: 59.3 - carb. veinlet $25^{\circ}$ to Axis |  |  |  | I |  | I |  |  |
| I |  | I | 1 within tuffaleons zone |  |  |  | , |  | 1 |  |  |
| I |  | I | \|- fine banding in argillite |  |  |  | 1 |  | I |  |  |
| \| |  | I | 1- 'white bands' tends to be carbonaleous |  |  |  | \| |  | I |  |  |
| I |  | , | \|At: 62.3 - pyrrhotite $.58-1 \%$ on bedding |  |  |  | $1 \times$ |  | I |  |  |
| I |  | 1 | 1 surface in a 'mylonitic' |  |  |  | 1 |  | I |  |  |
| I |  | , | 1 carb. zone ( 3 cm wide) |  |  |  | 1 |  | 1 |  |  |
| I |  | 1 | \| - fine gr., disem and small blebs |  |  |  | 1 |  | 1 |  |  |
| I |  | 1 | \|At: 64.0 - pyrrhotite slightly magnetic | |  |  |  | \| |  | 1 |  |  |
|  |  | 1 | 1 - also carb. \& very thin |  |  |  | 1 |  | \| |  |  |
|  |  | 1 | 1 'mylonitic appearance' | 1 |  |  | 1 |  | 1 |  |  |

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Date Finished - $10 / 17 / 88$ Logged By - G.S. Archer ITotal Depth - 372 ft . |Claim - BOGG ICore Size - BQ

| Dep |  | \|Recovery $\mid$ | \| Description | Sample No. | From | To | Width | CU | AG | AS | AU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to | 1 \% |  |  |  |  | Iof Sample | ppml | ppm! | ppm 1 | ppbl |
| 10 | 110.7 |  | Casing |  |  | I |  |  |  |  |  |
| 110.7 | 110.9 | 160 | \|-dirt, oxidized with (l cm.) broken | 1 \| |  | 1 | I | 1 | 1 | 1 |  |
|  |  |  | \| fragments. |  |  |  | 1 |  | 1 |  |  |
| 110.9 | 111.5 | 160 | \|-Breccia (from casing) | \|C56551 | 10.7 | 112.0 | 12 m. | 181 | 0.3 | 71 | 161 |
| 111.5 | 117.0 | 1100 | -Breccia -matrix-drak grey colour |  |  |  |  |  |  |  |  |
|  |  |  | \| -clasts-light grey/cream colour | 1 \| |  | I | \| | I | I | I |  |
| \| |  |  | \| -clasts-relatively soft. |  |  | I | 1 | \| | I | I |  |
| I | I | 1 | -matrix-hard, silicious, HCl reaction | 1 |  | I | 1 | I | I | 1 |  |
| I | 1 |  | when powdered. |  |  | 1 | 1 | I | I |  |  |
| \| | I | , | -pyrite:fine grained <.5\% throughout. | 1 I |  | I | \| | \| | \| |  |  |
| I | 1 | 1 I | -rarely supporting matrix. | 1 I |  | I | \| | \| | I |  |  |
| I | 1 | 1 | -locallly increases up to 5\%, fine | 1 |  | 1 | 1 | I | 1 | I |  |
| \| | 1 | 1 | grained, diseminated \& euhedral. |  |  | 1 | I | I | I | I |  |
| \| | I | 1 | -fractures: $30^{\circ}, 40^{\circ}, 60^{\circ}, 70^{\circ}$-filled | 1 i |  | 1 | \| | 1 | \| | I |  |
| \| | 1 | , | with very dark/grey black | 1 |  | 1 | 1 | I | I |  |  |
| I | 1 | 1 | \| material. |  |  | I | 1 | 1 |  |  |  |
| \| | 1 | , | \|At: 12.3:pyrite 4\%, very fine grained, | 1 |  | I | I |  | I | I |  |
| I | I | 1 | $1 \quad$ occurs as blebs and fracture | 1 I |  | I | 1 | I | I | I |  |
|  | I | 11 | filling. |  |  | 1 | 1 | 1 |  | I |  |
|  | I | 1 \| | \| | 1 \| |  | I |  |  |  |  |  |
| \| | , | 1 |  | \| | |  | I | 1 |  |  |  |  |
| I | 1 | I | -Occasional quartz-infilling or replacing | IC56555 | 18.0 | 120.0 | 12 m . | 1021 | 0.21 | 91 | 171 |
| I | , | I | \| matrix and clasts in section. | \|C56556 | 20.0 | 122.0 | 12 m . | 2101 | 0.11 | 41 | 61 |
|  |  |  |  | 1 \| |  |  |  |  |  |  |  |
| 117.0 | 123.1 | 1100 | \| Breccia-matrix-quartz with minor pyrite | 1 \| |  | \| | I | I |  | I |  |
| I |  |  | \| -light grey colour. | 1 \| |  | I | I | I | I |  |  |
| I | , |  | -clasts-dark green - tuff? | 1 |  | I | I | I | I | I |  |
|  | + | 1 | -some dark green clasts have | 1 \| |  | I | 1 | I | I | I |  |
| \| | I | 1 I | "botryoidal" look on grains. | 1 I |  | I | I | I | I |  |  |
| I | 1 | , | -mariposite and jasper(?) increasing. | 1 I |  | 1 | I | I | I | I |  |
| I | I | 1 | -appear to be related to increase in |  |  |  | I | 1 | I |  |  |
| 1 | 1 | 1 | pyrite. |  |  | 1 | 1 | 1 | 1 | I |  |
| 1 |  | , | -darker clasts (l-2cm.) seem to be related | to jasper. |  | 1 | 1 | 1 |  |  |  |
| ! | 1 | 1 | -pyrite-increases in blebs. | 1 \| |  | 1 | 1 | 1 | I |  |  |
| I | 1 | 1 | -often related to dark green clast |  |  | 1 | 1 | 1 | I |  |  |
|  |  |  |  |  |  | 1 |  | 1 | 1 |  |  |

Hole No. 88- 6


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Hole No. 88-6

| Dep |  | $\mid$ Recovery $\mid$ | Description | Sample No. | From | To | 1 Width | CU | AG |  | AU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| from | to | 8 |  |  |  |  | \|of Sample | ppm\| | ppml | ppm | ppbl |
| 136.5 | 139.2 | 1100 | \|Ash Tuff-with lapilli size fragments. | | IC56564 | 136.0 | 38.0 | 2 m . | 971 | 0.11 |  | 81 |
|  |  |  | \| -fractures: $45^{\circ}$, 55 to axis, healed with \| |  |  |  |  |  | 1 |  |  |
| I |  | 11 | \| white carbonate. | | I | I | I | 1 | I | I | 1 |  |
|  |  |  | \| -rare mariposite. | | , |  |  |  |  | 1 | 1 |  |
| 139.2 | 139.4 | 1100 | \|Brecciated Tuff- healed with white carb. | | \|C56565 | 138.0 | 140.0 | 2 m . | 1161 | 0.11 | 51 | 71 |
|  |  |  | \| and pyrite. | | \|C56566 | 140.0 | 142.0 | 2 m . | 1091 | 0.11 | 71 | 51 |
|  |  |  |  | 1 1 |  |  |  |  |  |  |  |
| 139.4 | 140.2 | 1100 | \|Andesite(?) -dark green. | | 1 | I | I | ! | I | I | I |  |
| 139.4 |  |  | \| fractures: $60^{\circ}, 70^{\circ}$ to axis, minor bleachin |  | I | I | I | I | I | I |  |
| 1 |  | , | 1 on fracture wall. \| |  |  | I | 1 | I | I | I |  |
|  |  |  | \| -healed with white carb. | |  | I |  | 1 \| | I | I |  |  |
| 140.2 | 141.5 | 1100 | \|Ash Tuff- carbonaçous.0 $0^{0}$ ( | 1 | I | I | 1 | I | 1 |  |  |
| , |  |  | \| fractures: $45^{\circ}, 55^{\circ}, 65^{\circ}, 70^{\circ}$ to axis and \| | 1 | I | I | I |  | I | I |  |
| 1 |  | , | \| healed with white carbonate. | | 1 | I | I | I | 1 | I | I |  |
| , |  | 1 | \|-minor mariposite. | |  |  |  |  | I |  | I |  |
| I | I | I | \|-minor jasper(?) on fracture surfaces. | | 1 | I | ! | 1 | I | 1 | I |  |
| I |  | 1 | \|-pyrite: <0.5\%, fine grained, diseminated | |  |  |  |  |  |  |  |  |
|  |  |  | \| euhedral. | |  |  | I | 1 |  | \| |  |  |
| 141.5 | 142.9 | 1100 | \|Breccia- mainly ash and lapilli tuff | | 1 | 1 |  | I |  |  | I |  |
|  |  |  | \| fragments. | | 1 | 1 | I | I |  |  |  |  |
| \| |  | 1 \| | \|-quartz clasts up to lcm. diameter. | | $1 \times$ | 1 | I | I |  |  |  |  |
| I |  | , | \|-pyrite:locally to 5\%, fine grained, | | 1 | 1 | I | 1 |  |  |  |  |
|  |  |  | \| blebs, (l-5cm.) | |  | I |  | $1 \times$ |  |  |  |  |
| 142.9 | \| 46.1 | 1100 | \|Ash/Lapilli Tuff with numerous (light tan/| |  |  |  | 1 |  | 1 |  |  |
|  |  |  | \| grey). $0^{\circ}$ | IC56567 | 142.0 | 144.0 | 2 m 。 | 281 | 0.11 | 41 | 4 |
| 1 |  |  | \| -fractures: $65^{\circ}, 80^{\circ}$ to axis. \| | 1 C 56568 | 144.0 | 146.0 | 2 m . | 481 | 0.11 | 41 | 71 |
| 1 |  | I | \| -pyrite: up to 5\%. | | I |  |  | 1 |  |  |  |  |
| 1 |  | , | \| | \| | 1 | \| | 1 |  |  |  |  |
| 1 | , | I | \|At:44.2-44.5 -Jasper(?), becoming more | | 1 | 1 | 1 | 1 |  |  |  |  |
| I |  | , | \| prevalent along fractures. | | I |  | 1 | 1 |  |  |  |  |
|  |  | 1 |  | I |  |  | 1 |  |  |  |  |
| 146.1 | 151.3 | 1100 | \| Same as 42.9-48.1 m. | IC56569 | 146.0 | 148.0 | 2 m . | 531 | 0.11 | 71 | 8 |
| 1 |  |  | \| -fractures: 350 , $40^{\circ}, 70^{\circ}$ to axis. | \|C56570 | 148.0 | 150.0 | 2m. | 611 | 0.11 | 101 | 11 |
| I | I | 1 | 1 -epidote blebs, 1-20 mm. diameter. |  |  |  | 1 |  |  |  |  |
| , |  | 11 | I \| | 1 | 1 | 1 | 1 |  |  |  |  |
| 1 | 1 | 1 | 1 1 | 1 | 1 | 1 | 1 | I |  |  |  |

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| Dept |  | Recovery | Description | Sample No. | From | To | Width | Cu | AG | AS | AU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to |  | \|At: 73.5-80.7-breccia-clasts, dark green |  |  |  | lof Sample | ppm\| | ppm | ppml | ppbl |
| 1 \| | I | 1 | \| light green. | 1 | I | 1 | I | , | I | I |  |
| 1 I | 1 | 1 | -matrix-light tan matrix, looks |  | I | 1 | 1 |  | , | , |  |
| 1 \| | I | 1 | tuffaceous. | , | I | I | 1 |  |  | I |  |
| 1 I | , | 1 | -pyrite:<l\% | I | ; | , | 1 \| | 1 | 1 |  |  |
| 1 \| |  | 1 | -fractures: $60^{\circ}, 85^{\circ}$ to axis. |  | I | I | 1 \| |  |  | , |  |
| 1 I |  | 1 | -minor jasper(?) on fracture | I | I | I | I | I | I | 1 |  |
|  |  |  | \| surfaces. | 1 | I | I | I |  |  | 1 |  |
| 180.7 | 181.2 | 1100 | \|Ash/Lapilli Tuff | 1 - | I | I | \| | I | I |  |  |
|  |  |  | \| -pyrite: < $5 \%$ 。 |  |  |  | , |  | 1 | I |  |
| 1 I |  | I | \| -fractures: $25^{\circ}, 65^{\circ}$ to axis. | IC56586 | 180.0 | 182.0 | 2 m . | 351 | 0.21 | 31 | 61 |
| 1 I |  | I |  | \|C56587 | 182.0 | 184.0 | 2m. | 721 | 0.11 | 31 | 31 |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 181.2 | 182.45 | 1100 | \|Breccia | 1 | \| | \| | \| | I | I | \| |  |
|  |  |  | \| -epidote throughout. | 1 1 | I |  | , | I | I | I |  |
| 1 I |  | I | - fractures: $30^{\circ}, 40^{\circ}$ to axis, healed with | 1 | 1 | \| | , | 1 |  | 1 |  |
|  |  | , | \| white dolomitic carbonate. |  | \| | I | 1 | 1 | I | , |  |
|  |  |  | \| -clasts: dark green ash tuff. |  | 1 |  | , |  |  | \| |  |
| 182.451 | 83.7 | 1100 | \|Ash/Lapilli Tuff | 1 | I | I | I | I | I | 1 |  |
|  |  |  | \| -slightly brecciated. | 1 - | 1 | I | , | \| |  | 1 |  |
|  |  |  | \| -minor jasper (?). |  | I | I | 1 | I | I | 1 |  |
|  |  |  | 1 -fractures: 50 , $60^{\circ}$ to axis. | 1 | 1 | । | , | \| | 1 | 1 |  |
| 183.7 | 186.2 | 1100 | \|Ash/Lapilli Tuff | 1 | 1 | I | 1 | 1 | , | 1 |  |
|  |  |  | \| -epidote common. | 1 \| | 1 | \| | \| | I | 1 | 1 |  |
| 11 |  | , | 1-jasper (?) common on fracture surfaces. | 1 | 1 | 1 | 1 | I |  | 1 |  |
| 1 I |  | , | \| -fractures: $30^{\circ}, 65^{\circ}$ to axis. | 1 | 1 | I | \| | I | \| | 1 |  |
| 11 |  | 1 | \| -pyrite: <0.5\% | 1 | 1 | I | , | I |  | 1 |  |
|  |  |  | 1 -minor talc on fracture surfaces. | 1 | \| | I | \| | I | I | 1 |  |
| 186.2 | 187.8 | 1100 | \|Breccia- similar to 83.7-86.2. | 1 | I | I | I | I | , | I |  |
|  |  | 1 | \| -pyrite: l-2\%, fine grained, euhedral | $1 \times$ | \| | 1 | \| | I |  | I |  |
|  |  |  | 1 and anhedral. | 1 | 1 |  | I |  | 1 | I |  |
| 187.8 | 190.8 | 1100 | 1Same as 83.7-86.2 metres. | 1C56589 | 186.0 | 188.0 | \| 2 m . | 841 | 0.11 | 101 | 4 |
| 1 \| |  | 1 | \| -pyrite: on fracture surfaces. | \|C56590 | 188.0 | 190.0 | \| 2 m . | 331 | 0.11 | 71 | 2 |
| 11 |  |  | \| -magnetite with epidote. | \|C56591 | 190.0 | 192.0 | \| 2 m . | 881 | 0.21 | 51 | 71 |
| 11 |  | I | \| -jasper common on fractures. | \|C56592 | 192.0 | 194.0 | \| 2 m 。 | 1041 | 0.11 | 2 | 2 |
| 1 |  | 1 |  | 1 |  |  | 1 |  |  | I |  |

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Date Finished - 10/20/88 LLogged By - G.S. Archer ITotal Depth - 112.8 m |Claim - BOGG ICore Size - BQ


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|  | th (m) | \| Recovery | Description | TSample No. | From | To | Width | Cu | AG | AS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | 1 to | 1 \% |  |  |  |  | of Samplel | ppm 1 | ppml | ppm 1 | ppbl |
| 140.5 | 144.3 | 1100 | Ash/Lapilli Tuff -soft |  |  |  |  |  |  |  |  |
|  |  |  | \| -pyr. approx. 1\% -fine grained | 1 |  |  | 1 \| |  | I |  |  |
|  |  | I | diseminated. | $1 \times$ |  | I | 1 I | I | I |  |  |
|  |  | I | -salt \& pepper appearance. | $1 \times$ |  |  | 1 \| | I | ; |  |  |
|  | I | 1 | -no carb. veinlets. | \| |  |  | 1 i | I | I | 1 |  |
|  | I | 1 | \| -minor serpentine(?) cutting core. | 1 \| |  |  | 1 i | I | I | I |  |
| \| | I | \| | \|At: 42.1-44.3-increased red stain | I |  |  | 1 I | 1 |  | I |  |
|  | \| | 1 | \| (hematite?) on fracture and minor | \| |  |  | 1 | I | I |  |  |
|  | I | 1 | \| carb. veinlets cutting core. | 1 |  |  | 1 | 1 | i | 1 |  |
| \| | I | , | \|At: 41.8-43.0 -talc and serpentine(?) on | I |  |  | 1 \| | - | i | 1 |  |
| \| | \| | 1 | \| fracture. | \| |  |  | 1 \| | \| | I | I |  |
|  |  | 1 | Fractures: $20^{\circ}, 40^{\circ}, 50^{\circ}, 65^{\circ}$ to axis. | I |  |  | 1 | I | I | I |  |
|  |  |  | \| Pyrite: <.5\% | I |  |  |  | 1 | 1 |  |  |
| 144.3 | 148.5 | 1100 | \|Ash Tuff -soft and weathered. |  |  |  |  | I | I |  |  |
|  |  |  | \| -pyrite:1-5\% on fractures |  |  |  |  | 1 | I |  |  |
| \| | 1 |  | -fine grained, euhedral,minor |  |  |  |  | I |  |  |  |
|  | 1 |  | blebs up tg lcm dia. |  |  |  |  | I |  | I |  |
| $1$ | I |  | -fracture: 450 , $55^{8}$ to axis. |  |  |  |  |  | I | 1 |  |
| I | I | 1 | -minor talc on fracture. |  |  |  |  |  | I | 1 |  |
| ! | 1 | 1 | i |  |  |  | 1 | I | I | 1 |  |
| I | 1 | 1 | \|At:47.0 -increased jasper(?) staining in |  |  |  | $1 \quad 1$ | 1 | - |  |  |
| ! | 1 | 1 | \| fracture and blebs. |  |  |  | $1 \quad 1$ | 1 | 1 | 1 |  |
|  |  |  | \|At:46.6 -rare mariposite blebs. |  |  |  | 1 |  | - 1 |  |  |
| 148.5 | 149.1 | 1100 | \|Lapilli Tuff -light grey/L.green/light tan | 1056624 | 148.0 | 150.0 | 12 | 721 | 0.31 | 51 | 2301 |
|  | \| |  | \| -fracture: $45^{\circ}, 60$, $70^{\circ}$ to axis | $\operatorname{sic56625}$ | 150 | $152$ | 12 | 781 | 0.11 | 21 | 31 |
| I | 1 | I | -pyrite: <.5\%, very fine | 1C56626 | 152 | 154 | 12 | 911 | 0.11 | 91 | 81 |
| I | 1 | I | grained \& blebs. | \| C56627 | 154 | 156 | 12 | 771 | 0.11 | 71 | 91 |
| I | 1 | I | -healed with dolomitic carb. | \| C56628 | 156 | 158 | 12 | 921 | 0.11 | 81 | 101 |
| I | I | I | 1 with red stainwhich cuts |  |  |  | , |  |  |  |  |
|  |  |  | I serpentine(?) filled gashes. |  | 1 | 1 | 1 | 1 |  |  |  |
| \| 49.1 | 151.4 | 1100 | 1Tuff |  | \| |  | 1 | - |  |  |  |
|  |  | 1 | \| -dark green with tan (bleached) sections. |  |  | I | 1 | \| |  |  |  |
| I | 1 | I | \| -fractures: $45^{\circ}, 60^{\circ}, 70^{\circ}$ to axis, healed |  |  | 1 | 1 | \| |  |  |  |
|  |  |  | \| with dolomitic carb. |  | , | 1 | 1 1 | I |  |  |  |
| 151.4 | 152.4 | 1100 | \|Lappilli Tuff - same as 48.5-49.1 | 1 | 1 | I | 1 | I 1 |  |  |  |
|  | , | 1 | \| -mariposite - 1-2\% blebs. | 1 | 1 | I | 1 | 1 |  | 1 |  |
|  | 1 | 1 | 1 , | 1 | 1 | 1 | , | 1 |  |  |  |

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| $\begin{aligned} & \text { Dep } \\ & \text { Ifrom } \end{aligned}$ | th (m) 1 to | $\begin{gathered} \text { \|Recovery } \\ \mid \\ \hline \end{gathered}$ | 1 Description | \|Sample No. | From | To | $\begin{gathered} \text { Width } \\ \text { lof Sample } \end{gathered}$ | $\begin{aligned} & \mathrm{CU} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{array}{l\|} \hline \text { AG } \\ \text { ppm } \end{array}$ | $\begin{array}{l\|} \hline \text { AS } \\ \text { ppm } \end{array}$ | $\begin{aligned} & \mathrm{AU} \\ & \mathrm{ppbl} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| T52.4 | 153.9 | 1100 | Tuff - same as 49.1-51.4 |  |  |  |  |  |  |  |  |
|  |  |  | 1 -pyrite -up to 5-10\% locally |  |  |  | \| |  |  |  |  |
| 153.9 | 156.8 | 1100 | \| Same as 48.5-49.1 |  |  |  | 1 |  | I |  |  |
|  |  |  | \| -pyrite <.5\% to l0\% locally in blebs. |  |  |  | 1 |  | I | 1 |  |
| 156.8 | 158.3 | 1100 | \|Ash/Lapilli Tuff |  |  |  | I |  |  | \| |  |
|  |  |  | \| -very light green ${ }^{0} 000$ |  |  |  | 1 |  |  | 1 |  |
| 1 |  | I | -fractures: $10^{\circ}, 15^{\circ}, 60^{\circ}$ to axis |  |  |  | 1 |  |  | 1 |  |
| I |  | I | -pyrite: <.5-1\%, very fine grained blebs |  |  |  | 1 |  |  | 1 |  |
| I |  | I | and on fracture surfaces. |  |  |  | 1 |  |  | 1 |  |
| 1 | I | I | -dolomitic carb. in fractures with red |  |  |  | 1 | I |  | 1 |  |
| 1 | I | 1 | stain assoc. |  |  |  |  |  |  | \| |  |
| \| | I | 1 \| | Inote:stain tends to be on the outer |  |  |  |  |  |  | \| |  |
| I | I | 1 1 | ) boundary of the veinlets. |  |  |  |  |  |  | 1 |  |
|  |  |  | -mariposite -minor occurence |  |  |  |  |  |  | 1 |  |
| 158.3 | 160.8 | 1100 | \|Ash Tuff | 1C56629 | 158.0 | 60.0 | 2 | 1071 | 0.21 | 81 | 181 |
|  |  | \| | \| -light brown/grey-mottled appearance. | \| C56630 | 160.0 | 162.0 | 12 | 831 | 0.31 | 751 | 211 |
| I |  | I | -multiple fractures, healed by dolomitic | \|C56631 | 162.0 | 164.0 | 12 | 581 | 0.31 | 451 | 171 |
| I |  | I | carb. | \|C56632 | 164.0 | 166.0 | 12 | 1241 | 0.11 | 51 | 51 |
|  | 1 | 1 | -dolomitic carb./guartz blebs throughout. | \|C56633 | 166.0 | 168.0 | 12 | 1031 | 0.21 | 51 | 61 |
|  | 1 | I | -fractures: 10 , 25 , $50^{\circ}$ to axis. |  |  |  |  |  |  | ) |  |
|  |  | 1 | -pyrite:very fine grained blebs, up to |  |  |  | 1 |  |  | I |  |
|  |  |  | 5-1-\% locally. |  |  |  | 1 |  |  | 1 |  |
| 160.8 | 167.3 | 1100 | \|Ash/Lapilli Tuff |  |  |  | I |  | I | I |  |
|  |  |  | \| -minor brecciation. |  |  |  | $1$ |  |  | I |  |
| , | , | 1 | \| mariposite: . 5-5\% blebs and rarely along |  |  |  | 1 |  | I | 1 |  |
|  | I | I | feactures (higher \% at 61.0 |  |  |  | 1 | I | I | 1 |  |
| I | I | , | $61.7)$ |  |  |  | \| | I | I | 1 |  |
| , |  |  | -qtz/carb.- healed fractures and forms |  |  |  | \| |  |  | I |  |
| I |  | I | part of matrix. (<25\%) |  |  |  | 1 | 1 |  | 1 |  |
| I |  | , | pyrite: .5\%-1\%, fine grained, blebs and |  |  |  |  |  |  | I |  |
|  |  | , | \| diseminated. |  | 1 |  | 1 | 1 |  | 1 |  |
| I | 1 | , | \|At: 65.2 -numerous red stained veinlets |  |  |  | 1 | I | I | \| |  |
| , | 1 | 1 | and on fracture surfaces |  |  |  | 1 | \| | I | I |  |
| , | 1 | 11 | -mariposite approx. .5\% |  |  |  | 1 | 1 |  | I |  |
| I | \| | , |  |  |  |  | 1 i | \| |  | I |  |
| 1 | I | I | -fractures: $30^{\circ}, 45^{\circ}, 55^{\circ}, 35^{\circ}$ to axis. |  |  |  | 1 |  |  | 1 |  |
| 1 |  | 1 | filled with $\mathrm{qtz} / \mathrm{carb}$. | 1 | 1 |  | $1 \quad 1$ |  | 1 | 1 |  |

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|  | $\begin{array}{\|c\|} \hline \text { Recovery } \mid \\ \hline \% \end{array}$ | \| Description | \|Sample No. $\mid$ | From | To | $\begin{aligned} & \text { Width } \\ & \text { Iof Sample } \end{aligned}$ | $\begin{aligned} & \mathrm{CU} \mid \\ & \mathrm{ppmI} \end{aligned}$ | $\begin{aligned} & \text { AG } \\ & \text { ppm } \end{aligned}$ | $\begin{array}{l\|} \hline \text { AS } \\ \text { ppm } \end{array}$ | $\begin{aligned} & \mathrm{AU} \\ & \mathrm{ppb} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | -all fractured and healed with quartz. |  |  |  |  |  |  |  |  |
| \| |  | \| -fractures:40 and $45^{\circ}$. | , |  |  | 1 | I | I | I |  |
| 1 |  | \|At: 100.4 -quartz blebs, approx. 5 cm diam. | 1 |  |  | 1 | I | 1 | I |  |
| I |  | \| -pyrite:fine grained, 10-15\%. | 1 |  |  | 1 | I | I | I |  |
|  |  | \| -dark green and pink blebs. | 1 I |  |  | 1 I | I | I | 1 |  |
| 1105.4\|106.5 | 1100\% | \|Tuff | I |  |  | 1 i | I | 1 | I |  |
|  |  | 1 -brecciated and healed with quartz and | 1 I |  |  | I | I | I | I |  |
| I |  | \| minor carbonate. | 1 I |  |  | $1 \quad 1$ | I | 1 | I |  |
| I |  | \| -bedding(?) $55^{\circ}-60^{\circ}$ to axis. \| | 1 |  |  | I | 1 | 1 | 1 | 1 |
| 1 |  | \| -pyrite:1-3\%, euhedral. | 1 |  |  | 1 I | 1 | 1 | I |  |
| I |  | \| -fracture: $65^{\circ}$ to axis. | 1 \| |  |  | 1 i | I | 1 | I |  |
| 11 |  | \|At:105.9-106.05 -quartz vein, indistinct | 1 |  |  | 1 \| | I | I | I |  |
| $1 \quad 1$ |  | 1 contacts, top and bottom. | 1 |  |  | 1 | I | I | I |  |
| $1 \quad 1$ |  | 1 -up to $40 \%$ pyrite, fine |  |  |  | 1 | I | I | I |  |
| 11 |  | 1 grained. | 1 |  |  | 1 | I | I | I |  |
| $1 \quad 1$ |  | $1 \quad-30 \%$ black mineral. | 1 I |  |  | , | I | \| | I |  |
| 11 |  | \|At: $106.05-106.2$-tuff with jasper(?) and | 1 |  |  | 1 | I | I | I |  |
| 11 |  | 1 mariposite, all cut by | 1 I |  |  | 1 |  | I | I |  |
|  |  | 1 carbonate veinlets. | 1 |  |  | 1 I |  | I | I |  |
| \|106.5|108.6 | | 1100 | \| Breccia | , |  |  | 1 \| | I | \| | I |  |
| - |  | \| -matrix supported. | , |  |  | 1 1 | 1 | I |  |  |
| I |  | \| -lapilli ash tuff. | , |  |  | , | I | I | I |  |
| I |  | \| -subsequent fracture and healing by | 1 i |  |  | I | 1 | I | I |  |
| I |  | \| dolomitic carbonate. | 1 \| |  |  | , | 1 |  | I |  |
| I |  | \| -dark green lapillif tuff (60\%-70\%). | I |  |  | , | I |  | I |  |
| 1 |  |  | , |  |  | , | 1 |  | \| |  |
| I |  | \| -pyrite:fine grained blebs at center of | I |  |  | 1 I | I |  |  |  |
| I |  | 1 of bleached areas. | , |  |  | 1 I | I |  | I |  |
| 1 1 |  | $1 \quad-5-10 \%$, fine grained. | , |  |  | 1 1 | I | I | I |  |
| 1108.6\|110.551 | 1100 | \|Lapilli Tuff | 1 I |  |  | 1 1 | I | 1 | I |  |
|  |  | \| -dark green. | 1 i |  |  | 1 \| | I | I | 1 |  |
| 1 |  | \| -Pyrite:<.5\%, fine grained, euhedral. | , |  |  | , | I |  | I |  |
| 1 I |  | \| -bleached areas $-15 \%$ | 1 I |  |  | I | I |  | I |  |
| 111 |  | \| Fractures: $35^{\circ}, 40^{\circ}, 50^{\circ}$ to axis. | 1 |  |  | , | I |  | I |  |
| 1110.55112 .81 | 100\% | \|Brecciated zone | 1 |  |  | 1 \| | I |  | I |  |
|  |  | \| -bleached. | 1 |  |  | , | 1 |  | 1 |  |
| $1 \quad 1$ |  |  | 1 |  |  | 1 1 | 1 |  |  |  |



|Date Finished - $10 / 23 / 88$ Logged By - G.S. Archer |Total Depth - 112.8 m . |Claim - BOGG ICore Size - BQ

| Dep | th (m) | Recovery | \| Description | Sample No. $\mid$ | From | To | Width | CU | AG | AS | AU |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| from | 1 to | \% |  |  |  | , | of Sample | ppm | ppml | ppml | ppbl |
| TO | 17.6 | Casing |  |  |  |  |  |  |  |  |  |
| 17.6 | 19.75 | $1100 \%$ | \|Ash/Lapilli Tuff | 1 | I | I | I | I | 1 | I | I |
|  |  |  |  |  |  | 1 | 1 | I | I | I | I |
| I | 1 | I | \| -fractures: $15{ }^{\circ}, 25^{\circ}, 50^{\circ}, 75^{\circ}$ to axis, all |  |  | 1 | \| | I | I | I | I |
| \| | I | I | \| healed with dolomitic carb. | 1 |  | I | I | 1 | 1 | I | I |
| I | 1 | I | -pyrite: <.5\%, anhedral. |  |  | 1 | I | I | \| | \| |  |
| I | I | 1 | \| -core oxidized on surface and on broken |  | I | I | 1 | - | 1 | 1 | 1 |
|  |  |  | \| surface. |  |  |  |  |  | 1 |  | 1 |
| 19.75 | 111.0 | 1100 | \|Breccia | $1 \mathrm{C40001}$ | 17.6 | 110.0 | 12 | 861 | 0.11 | 71 | 161 |
|  |  |  | \| -very angular fragments. | $1 \mathrm{C40002}$ | 110 | 112 | 12 | 841 | 0.11 | 91 | 131 |
| I | I | \| | 1-matrix: dolomitic carb. (cream colour). | 1C40003 | 112 | 114 | 12 | 941 | 0.11 | 91 | 31 |
|  |  |  | \| -pyrite: <l\%, anhedral and diseminated. | 1C40004 | 114 | 116 | 12 | 791 | 0.11 | 81 | 101 |
| 111.0 | 116.9 | 1100 | \|Same as 7.6-9.75 m | IC40005 | 116 | 118 | 12 | 921 | 0.11 | 91 | 11 |
| , |  |  | \| -minor chert fragments. |  |  |  |  |  |  |  |  |
| I | I | I | \| -minor specular hematite(?) blebs. | 1 I | I | I | I |  | 1 |  | I |
| 1 | 1 | I | \| -mariposite(?) bleb at $15.8 \mathrm{~m}, 6 \mathrm{~mm}$ diam. |  | I | 1 | 1 |  | I |  |  |
| I | I | I | \| -fractures: $35^{\circ}, 40^{\circ}, 60^{\circ}$ to axis, healed | 1 | I | \| | I |  | I |  | I |
| 1 | I | I | \| with dolomitic carbonate. | 1 |  | I | 1 |  |  |  | 1 |
| I | \| | I | \| -specular hematite in fractures. |  |  | 1 | 1 |  | I |  | I |
| I | I | I | \|At:11.9-12.15-brecciated. | 1 | I | I | 1 | I | I |  | I |
| 1 |  | I | \|At: 13.8-13.95 -brecciated. | 1 | 1 | 1 | 1 |  | 1 |  | I |
| \| | , | I | \|At:14.9-15.1 -orthoclase(?) filled veinlet| |  | 1 | , | 1 |  | I |  | I |
|  |  |  |  |  | \| | I | 1 |  | I |  | I |
| \|16.9 | 120.3 | 1100 | \|Tuff | 1 \| | 1 | 1 | 1 |  | ! |  | I |
| 1 |  | 1 | \| -very dark green/grey |  |  | 1 | ! |  | I |  |  |
| I | 1 | I | \| -fractures: 30 , 50 , $55{ }^{\circ}$ to axis | 1 | I | I | I |  | I |  | I |
| I | \| | I | \| -pyrite: . $5-3 \%$, anhedral, very fine | 1 1 | I | I | I | 1 | 1 |  |  |
|  | I | I | \| grained. |  |  | , | I |  |  |  | 1 |
| ! | I | I | \| -multiple fractures but minor filling | 1 1 | I | I | I |  |  |  | I |
| I | 1 | I | \| with dolomitic carb. |  | I | 1 | 1 |  |  |  |  |
|  |  | I | \| -minor brecciation and bleaching. |  | 1 | 1 | 1 |  |  |  |  |
| 120.3 | 127.7 | 1100 | \|Ash/Lapilli Tuff | 1 C 40006 | 118.0 | 120.0 | 12 | 611 | 0.11 | 91 | 21 |
| 1 | 1 | I | \| -dark grey/dark green. | $1 \mathrm{C40007}$ | 120 | 122 | 12 | 821 | 0.11 | 91 | 261 |
| 1 | 1 | 1 | I -fractures: $20^{\circ}, 25^{\circ}, 60^{\circ}, 80^{\circ}$ to axis. | IC40008 | 22 <br> 124 | $\begin{aligned} & 124 \\ & 126 \end{aligned}$ | $\begin{aligned} & 12 \\ & 12 \end{aligned}$ | $\begin{array}{r} 991 \\ 1021 \end{array}$ | 0.21 0.21 | 81 | 121 |
|  | 1 | 1 | \| -"micro fractures" -healed with dolomitic | lC40009 | 124 126 | 128 | 12 | 51 | 0.11 | 8 | 71 |
| 1 | , | I | carbonate. | \|C40010 | $1^{26}$ | $1^{2}$ |  | $1$ |  |  |  |

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| Dep from | th (m) 1 to | $\begin{array}{\|c\|} \hline \text { Thecovery } \\ 1 \\ 1 \\ \hline \end{array}$ | Description | \|Sample No. | From | To | $\begin{aligned} & \text { Width } \\ & \text { lof Samplel } \end{aligned}$ | Cu ppm I | $\begin{array}{l\|} \hline \text { AG } \\ \mathrm{ppm} \end{array}$ |  | $\begin{array}{l\|} \hline \mathrm{AU} \\ \mathrm{ppbl} \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | -bleaching on fracture walls. |  |  |  |  |  |  |  |  |
| 1 | I | $1 \quad 1$ | \|At:24.4 -veioflet, orthoclase, l-2 mm, | 1 | I |  | 1 |  | I | I |  |
| 1 | I | 1 | $1 \quad 60^{\circ}$ to axis. | 1 | , |  | 1 \| | I |  | 1 |  |
| 1 | 1 | $1 \quad 1$ | -subsequent fracture by | 1 | I | 1 | 1 | I | I | I |  |
| I | I | 1 I | irregular fractures. | 1 | I | I | 1 | I | I |  |  |
| \| | I | 1 | \|At:25.35 -same as 24.4 |  | 1 | I | 1 |  | I | 1 |  |
| 1 | 1 | 1 | \|At: 26.3-27.7 -very broken, altered to | 1 | I |  | 1 |  |  | , |  |
| I | I | 1 | clays. |  | \| | I | 1 | I | I | I |  |
| I | I | I | -pyrite: <1\% | 1 1 | I | I | 1 | I |  | \| |  |
| \| | \| | 1 \| | \|At: 27.5 -same as $25.35,80^{\circ}$ to axis. | 1 | 1 | \| | 1 |  | I | I |  |
| 1 | I | 1 | \|At:24.0-24.2 -breccia with dolomitic | 1 | I | I | 1 | I |  | \| |  |
| 1 | I | 1 | 1 carb. matrix. | 1 | I |  | 1 |  |  | \| |  |
| 1 | 1 | 1 1 | \|At:26.9-27.4 -minor clasts, dark green |  |  | I | 1 | I |  | I |  |
|  |  |  | 1 with red stain (hematite?). |  |  |  |  |  |  | 1 |  |
| 127.7 | 129.3 | 1100 | lTuff | $1 C 40011$ | 128.0 | 130.0 | 12 | 411 | 0.11 | 51 | 181 |
|  |  |  | \| -light grey/darkogrey. ${ }^{\circ}$ | 1C40012 | 130 | 132 | 12 | 421 | 0.11 | 71 | 461 |
| 1 | I | 1 | \| -fracture: $10^{\circ}, 40^{\circ}, 55^{\circ}, 65^{\circ}$ to axis, and | 1 C 40013 | 132 | 134 | 12 | 611 | 0.21 | 61 | 421 |
| I | , | I | \| healed with dolomitic carb. | \|C40014 | 134 | \| 36 | 12 | 711 | 0.31 | 71 | 1681 |
| 1 | \| | , | \| -pyrite:<.5\%, anhedral. | \|C40015 | 136 | 138 | 12 | 641 | 0.11 | 91 | 9601 |
| I | I | I | \|At:29.2 -veinlet, orthoclase(?), $45^{\circ}$ to | 1C40016 | 138 | 140 | 12 | 551 | 0.41 | 81 | 1561 |
| I | I | I | \| axis. | 1 C 40017 | 140 | 142 | 12 | 471 | 0.31 | 31 | 6801 |
|  |  |  | \|At: 28.65 -same as 29.2 m . | \|C40018 | 142 | 144 | 12 | 531 | 0.11 | 61 | 1111 |
| 129.3 | 131.0 | 1100 | \|Breccia | \|C40019 | 144 | 146 | $\mid 2$ | 541 | 1.0 | 71 | 1811 |
| 29.3 |  |  | \| -same matrix as 27.7-29.3 | \| C 40020 | 146 | 148 | 12 | 591 | 0.2 | 41 | 1661 |
|  |  |  | \| -pyrite:<l\%, euhedral \& anhedral. | 1C40021 | 148 | 150 | 12 | 511 | 0.11 | 51 | 21 |
| 131.0 | 147.0 | 1100 | \|Same as 27.7-29.3 |  | - | , |  |  |  |  |  |
| \| | I | I | \| -mottled appearance. | 1 | 1 | I | 1 | I |  |  |  |
| I | I | , | \| At: 31.5-36.6 -very broken. | 1 | I | I | 1 | I |  |  |  |
| I | I | I | \|At: 32.6 -dolomitic carb. veinlet, lcm wide |  | I | 1 | 1 | 1 |  | I |  |
| 1 | I | , | \| with pyrite blebs (1\%), anhedral, | |  | 1 | I | $1 \times$ | 1 |  | 1 |  |
| I | 1 | 1 | 1 and minor sheet pyrite on fracture |  | I | I | 1 |  |  | I |  |
| I | I | I | \|At:33.6 -orthoclase filled gashes. |  | , | I | $1 \times$ | 1 |  | I |  |
| I | I | I | \|At: 33.1 -orthoclase filled veinlet, 1 mm . | 1 | 1 | 1 | 1 | I |  | 1 |  |
| I | I | I | $1 \quad-60^{\circ}$ to axis, gut by barren | 1 | 1 | I | $1 \times$ | I |  | I |  |
| I | \| | 1 | 1 fractures, 20 to axiss | 1 | 1 | 1 | 1 |  |  |  |  |
|  | 1 | I |  | 1 | 1 | I | 1 | 1 | 1 | 1 |  |

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| $\begin{array}{r} \text { Del } \\ \text { Ifrom } \end{array}$ | th (m) | $\underset{\substack{\text { Recovery } \\ \%}}{ }$ | \| Description | Sample No. | From | To | $\begin{aligned} & \text { Width } \\ & \text { lof Sample } \end{aligned}$ | Cu ppm | AG ppm | AS ppm | $\begin{aligned} & \mathrm{AU} \\ & \mathrm{ppbl} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Note: 34.7-35.7-80\% recovery |  |  |  |  |  |  |  |  |
| I | 1 | I | 38.4-39.0-60\% " | I | I | \| | 1 | 1 | I | I |  |
| I | \| | \| | 36.7-37.5-100\% |  |  |  | I | 1 | 1 |  |  |
| I | I | 1 | \|Note:mottled appearance appears to be | 1C40022 | 150 | 152 | 12 | 521 | 0.2 | 51 | 151 |
| I | \| | I | \| caused by multiple "micro" fractures, | IC40023 | 152 | 154 | 12 | 581 | 0.1 | 31 | 11 |
| I | I | I | filled with dolomitic carb. and minor | \|C40024 | \| 54 | 156 | 12 | 541 | 0.2 | 41 | 711 |
| I | I | 1 | orthoclase(?). |  |  |  | I |  | \| |  |  |
| I | 1 | I | \|At: 39.6-39.9 -hematite blebs and fracture | I | I | I | I | - | I | I | I |
| I | I | I | filling. |  | , | I | I |  | I | I |  |
| I | I | 1 | \|At:40.5 -increase in hematite and light | I | , | \| | \| | I | I | I | I |
| I | 1 | 1 | chalcedony (?) |  |  | I | \| |  |  |  | I |
| I | 1 | 1 | -chalcedony also located at 42.15, |  | \| | \| | \| | I | I | I | I |
| I | I | \| | 42.6, $46.5,44.85$ metres. |  |  |  | I | - | I | I |  |
| 1 | I | I | \|At:44.7 -veinlets quartz/dolomitic carb., | 1 | I | 1 | \| |  | I | I |  |
| \| | \| | \| | \| $1 \mathrm{~cm}, 80^{\circ}$ to axis with $20 \%$ ( |  | , | , | \| | - | I | I | I |
| 1 | 1 | I | orthoclase(?). | I | 1 | I | \| |  | 1 | I |  |
| I | 1 | I | -pyrite: $2 \%$, very fine grained. | \| | , | I | I | I | I | I |  |
| 1 | 1 | 1 | \|At:44.7-46.4 -increase in orthoclase | I | \| | I | I |  | I | I | I |
| I | I | I | \| veinlets with minor dolom. | I | \| | \| | I | - |  | I | I |
| 1 | I | I | carb. |  | \| | I | 1 |  | \| | I |  |
| \| | I | 1 | -fractures: $50^{\circ}, 80^{\circ}$ to axis, |  | \| | \| | \| | - | I | । | I |
| , | I | I | l-2 mm. |  | \| | 1 | 1 |  | 1 | I |  |
| I | 1 | I | Note: dolomitic carb. veinlets cutl |  | , | \| | \| | - | I | I |  |
| 1 | 1 | 1 | orthoclase. |  | I | I | \| | - | I | 1 |  |
| I | I | 1 | \| | |  | \| | \| | I | \| | 1 | I |  |
| I | 1 | I | -slight increase in pyrite, | I | I | 1 | 1 | 1 | I | I |  |
| I | 1 | 1 | euhedral \& anhedral, up to |  | \| | \| | 1 | \| | I | I |  |
| 1 | 1 | 1 | 2\%, diseminated, fine |  | \| | I | 1 | \| | I | 1 |  |
| I | 1 | I | grained and assoc. with |  | I | , | 1 | \| | I | I |  |
| I | I | , | 1 Orthoclase. |  | \| | I | \| | \| | I | 1 |  |
| I | \| | I | \|At:45.2-45.8 -brecciated |  | \| | \| | \| |  | I | 1 |  |
| I | 1 |  | -minor purple hematitic blebs |  | 1 | , | I | 1 | I | 1 |  |
|  |  |  | I within matrix. \| |  |  | I | 1 | 1 | 1 | 1 |  |
| 147.0 | 147.9 | 1100 | \|Breccia |  | \| | I | 1 | 1 | \| |  |  |
|  | 1 | 1 | \| -matrix supported. |  | I | I | I | I | I | I |  |
| I | I | 1 | \| -subrounded clasts with dolomitic carb. |  | 1 | 1 | I | 1 | 1 |  |  |
|  | 1 | 1 | 1 matrix. 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |  |

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| Dep | th (m) | \|Recovery | Description | Sample No. | From | To | Width | Cu | AG | AS |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Ifrom | to | \% |  |  |  |  | \|of Sample| | ppm | ppm\| | ppm | ppbl |
|  |  | + | -numerous fractures help produce breccia. |  |  |  |  |  |  |  |  |
| \| | , | I | -pyrite: <. $5 \%$, blebs, veery fine grained, \| | I |  |  | 1 |  | I |  | 1 |
| I | I | I | \| minor matrix infilling. | |  |  |  | 1 I |  | I |  | I |
| \| | I | 1 | \|At:47.9 -numerous dolomitic carb. and | | I |  |  | 1 \| |  | I |  | I |
|  | I |  | \| orthoclase veinlets, random anglel |  |  |  | \| |  |  |  |  |
| 147.9 | 150.9 | 1100 | \|Ash/Lapilli Tuff |  |  |  | 1 \| |  | I |  | I |
|  |  |  | $\mid$-fractures: $20^{\circ}, 25^{\circ}, 55^{\circ}, 60^{\circ}$ to axis. \| |  |  |  | 1 |  |  |  | I |
| I | I | I | -minor bleaching on fracture walls and | I |  |  | 1 1 |  |  |  | I |
|  |  |  | \| minor hematite(?). |  |  |  | \| |  |  |  | I |
| 150.9 | 155.6 | 1100 | \|Ash/Lapilli (locally) Tuff |  |  |  | । |  |  |  | I |
|  | I |  | $\mid-\mathrm{light} \mathrm{grey/light} \mathrm{tan}. \mathrm{\mid}$ |  |  |  | 1 \| |  |  |  |  |
| I | 1 | 1 | \| -fractures: $10^{\circ}, 25^{\circ}$ and healed with | I |  |  | 1 |  |  |  |  |
| \| | I | 1 | \| dolomitic carb. | 1 1 |  |  | 1 |  |  |  |  |
| \| | I | \| | \| -minor carbonate on fractures surfaces. | 1 \| |  |  |  |  | I |  |  |
| \| | \| | 1 | \| -pyrite: <.5\% | 1 |  |  | I |  |  |  |  |
| I | I | 1 | \|At:50.1 -1mm orthoclase veinlet. | 1 |  |  | I |  |  |  |  |
| \| | I | I | \|At:52.9 - " " | 1 |  |  | \| |  |  |  |  |
| \| | I | I | \|At:54.1-" " | \| |  |  |  |  |  |  |  |
| \| | I | 1 | \|At:55.4-55.5 brecciated and healed with | 1 |  |  | I |  |  |  |  |
|  |  |  | \| dolomitic carb. |  |  |  |  |  |  |  |  |
| 155.6 | 158.7 | 1100 | \|Same as 47.9-50.9 | 1 |  |  | \| |  |  |  |  |
|  |  |  |  | 1 i |  |  | \| |  |  |  |  |
|  | \| | \| | \|At:56.0 -orthoclase veinlet, $60^{\circ}$ to axis. | 1 |  |  | 1 |  |  |  |  |
| I | 1 | I | \| 2 mm wide with dolomitic carb. | 1 |  |  | \| |  |  |  |  |
|  | 1 | , | \|At:56.1 -brecciated with tan dolomitic | \| |  |  | I |  |  |  |  |
|  | \| | I | \| matrix. | |  |  |  | 1 |  |  |  |  |
| I | I | , | \|At: 56.2-56.7 -hematite an fracture surfacel |  |  |  | I |  |  |  |  |
| I | I | 1 | 1 dark, blood red. \| |  |  |  | \| |  |  |  |  |
| I | I | 1 | \|At:57.9 -minor orthoclase veinlet and blebs |  |  |  | I |  |  |  |  |
| I | 1 | I | \| with multiple dolomitic carb | |  |  |  | $1 \times$ |  |  |  |  |
|  |  | 1 | \| fractures cutting orthoclase. | |  |  |  | $1 \times$ |  |  |  |  |
| 158.7 | 161.8 | 1100 | \|Lapilli/Ash Tuff |  |  |  |  |  |  |  |  |
|  |  | 1 | \| -dark green. ${ }^{\circ}$ |  |  |  | 1 |  |  |  |  |
| I | 1 |  | \| -fractures: $40^{\circ}$ to axis. |  |  |  | 1 |  |  |  |  |
| $1$ | , | , | \| -possible serpentine on fracture surface. |  |  |  | I |  |  |  |  |
|  | 1 |  | \| -minor hematite on fracture surface and | | I |  |  | 1 \| |  |  |  |  |
|  |  | 1 | 1 in veinlets. \| | 1 |  |  | $1 \ldots$ |  |  |  |  |

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| $\begin{aligned} & \text { Dep } \\ & \text { Ifrom } \end{aligned}$ | th (m) 1 to | $\begin{array}{\|c} \mid \text { Recovery } \\ 1 \\ 8 \end{array}$ | $\mid$ Description | \|Sample No. $\mid$ | From | To | $\begin{aligned} & \text { Width } \\ & \text { Iof Sample } \end{aligned}$ | $\begin{aligned} & \hline \mathrm{Cu} \\ & \mathrm{ppmI} \end{aligned}$ | $\begin{aligned} & \hline \mathrm{AG} \\ & \mathrm{ppm} \end{aligned}$ | $\begin{aligned} & \hline \text { AS } \\ & \text { ppm } \end{aligned}$ | $\begin{aligned} & \mathrm{AU} \\ & \mathrm{ppb} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | -pyrite: 18, very fine grained, tends to |  |  |  |  |  |  |  |  |
| 1 |  | 1 | follow fractures. | - |  |  | 1 \| | 1 | 1 | I |  |
| 1 | I | I | \|At:59.5 -epidote with minor hematite. | | 1 |  |  | 1 | I | 1 | I |  |
| I | 1 | I | \|At:61.7 -carb. veinlet with orthoclase and| |  |  |  | 1 |  |  |  |  |
|  |  |  | \| 58 pyrite, $45^{\circ}$ to axis. \| | I |  |  | 1 1 | I |  |  |  |
| 161.8 | 165.3 | 1100 | \|Ash/Lapilli Tuff | | 1 |  |  | 1 | 1 |  |  |  |
|  |  |  | \| -light grey/light tan. |  |  |  | 1 | 1 |  |  |  |
| I |  | 1 | \| -very broken, minor alteration to clays. | | 1 |  |  | 1 | I | 1 |  |  |
| I |  | 1 | \| -talc on some surfaces. | | I |  |  | 1 | 1 | 1 |  |  |
| I | 1 | 1 | \| -.5-1\% mariposite blebs. | | 1 |  |  | 1 | 1 | 1 |  |  |
|  |  |  | \| -pyrite:l\%, very fine fine grained blebs.| |  |  |  | 1 |  |  |  |  |
| 165.3 | 177.1 | 1100 | \|Lapilli/Ash Tuff | | I |  |  | , | I |  |  |  |
|  |  | 1 | \| -dark green. | |  |  |  | 1 |  |  |  |  |
|  | 1 | 1 | \| -very broken, (altered to clays) down to | |  |  |  | 1 |  |  |  |  |
| I | I | I | \| 66.6 metres. | | I |  |  | , | I |  |  |  |
| 1 |  | 1 | \| -minor epidote. $0^{\circ}$, $0^{\circ}$, | , |  |  | 1 |  |  |  |  |
|  | 1 | 1 | \| -fractures: $25^{\circ}, 35^{\circ}, 40^{\circ}, 50^{\circ}$ to axis. \| | 1 \| |  |  | I |  |  |  |  |
|  | 1 | 1 | \| -most fractures healed with dolomitic | | \| |  |  | I |  |  |  |  |
| 1 | 1 | 1 | carb. \| | 1 |  |  | , |  |  |  |  |
| 1 | I | I | \| -pyrite:<.5-2\%, very fine grained, | | I |  |  | 1 | I |  |  |  |
|  | I | 1 | $\mid$ diseminated, anhedral. \| | , |  |  | I |  |  |  |  |
| 1 | , | I | \|At:68.1 -quartz vein-5cm wide. | | 1 |  |  | 1 |  |  |  |  |
|  | , | , | \| -50 to axis. | |  |  |  | 1 |  |  |  |  |
| 1 |  | 1 | -rare orthoclase present. \| | I |  |  | I |  |  |  |  |
| I | I | I | \| -minor carbonate on fracture in qtz |  |  |  | 1 |  |  |  |  |
| I | 1 | I | \| Note:small hematite veinlets cut all | |  |  |  | 1 |  |  |  |  |
| I | 1 | , | \| previous carb. veinlets. ${ }^{\text {d }}$ | I |  |  | I |  |  |  |  |
| \| | I | , | \| fractures: $40^{\circ}, 50^{\circ}, 60^{\circ}, 65^{\circ}$ to axis. \| | 1 |  |  | 1 |  |  |  |  |
| \| | I | I | \| -larger veinlets (5-8mm) also carry | | I |  |  | 1 |  |  |  |  |
| I | I | , | \| very fine grained pyrite and carb. | | \| |  |  | 1 |  |  |  |  |
| I | I | I | \| |  |  |  | 1 |  |  |  |  |
| I | \| | 1 | \|At:70.6-71.4 -bleaching and minor | | I |  |  | I |  |  |  |  |
| I | I | I | \| alteration to clays. | | 1 |  |  | 1 |  |  |  |  |
| I | 1 | , | \|At: 72.7-73.1 -porphyritic appearance. | | 1 |  |  | 1 |  |  |  |  |
| I | 1 |  | \|At:73.4-75.0 -bleaching | | 1 1 |  |  | 1 |  |  |  |  |
| 1 | I | 1 | \| -minor epidote. | | 1 |  |  | 1 |  |  |  |  |
| 1 | 1 | 1 | -dolomitic carb. veinlets. \| | 1 |  |  | 1 |  |  |  |  |

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| $\begin{array}{r} \text { Del } \\ \text { Ifrom } \\ \hline \end{array}$ | th (m) | $\begin{gathered} \mid \text { Recovery } \mid \\ 1 \\ 1 \\ \hline \end{gathered}$ | \| Description | | TSample No. | From | To | $\begin{gathered} \text { Width } \\ \text { lof Sample } \end{gathered}$ | CU ppm | AG ${ }^{\text {ppm }}$ \| |  | $\begin{aligned} & \mathrm{AU} 1 \\ & \mathrm{ppbl} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | -pyrite and carb. on fractures |  |  |  |  |  |  |  |  |
| I | \| | 1 | anhedral. \| |  | 1 | I | I | 1 | I | 1 |  |
| I |  | 11 | -minor alteration to clays \| | , | I |  | 1 | I |  | I |  |
| 1 | I | 1 | (green coloured). \| | 1 | I |  | 1 | 1 | 1 | 1 |  |
|  |  |  | \|At: 76.0 -minor talc on fracture surface. | |  |  |  | 1 | 1 |  |  |  |
| 177.1 | 191.4 | 1100 | \|Ash Tuff | | 1C40037 | 180.0 | 182.0 | 12 | 951 | 0.11 | 101 | 101 |
| 1 |  | 1 | \| -light grey/light tan, broken. | | 1 C 40038 | 182 | 184 | 12 | 1181 | 0.11 | 81 | 91 |
| I | I | 1 | -mariposite -<.5\% blebs. \| | $1 \mathrm{C40039}$ | 184 | 186 | 12 | 921 | 0.11 | 91 | 41 |
| I |  | $1 \quad 1$ | -pyrite:very fine grained, dendritic \| | \|C40040 | 186 | 188 | 12 | 201 | 0.11 | 141 | 3201 |
| I | \| | 11 | appearance which favours fractures | s C40041 | 188 | 190 | 12 | 871 | 0.21 | 121 | 981 |
| I |  | 1 | and branches from there. | IC40042 | 190 | 192 | 12 | 124 | 0.11 | 121 | 89 |
| I | \| | 1 | -<.5\% up to 20\% locally (ie: at | $1 \mathrm{C40043}$ | 192 | 194 | 12 | 1191 | 0.31 | 81 | 981 |
| $1$ |  | 1 | $82.5 \& 82.7$ metres) | $1 \mathrm{C40044}$ | 194 | 196 | 12 | 1321 | 0.21 | 91 | 1011 |
| \| | I | 1 I | -fractures: $35^{\circ}, 45^{\circ}, 50^{\circ}$ to axis. | IC40045 | 196 | 198 | 12 | 102\| | 0.41 | 91 | 421 |
| 1 | I | 1 | note:the dolomitic carb. veinlets whichl |  |  |  | 1 |  |  |  |  |
| $1$ |  | 1 1 | cut the core at $50^{\circ}$ cut all other |  | 1 | 1 | 1 |  |  | 1 |  |
| I | I | 1 | fractures. \| |  | 1 | I | 1 | I | I |  |  |
| 1 |  | 1 | \|At: 79.3-80.0-75\% recovery. |  | 1 | I | 1 | I |  | I |  |
| 1 | I | 1 | \|At:77.7 -quartz fragments. | I | I | I | 1 | \| | I | I |  |
| I |  | I | \|At:79.0 " " | |  | I | I | 1 | 1 | I | I |  |
| I | 1 | 1 | \|At: 78.2 -quartz veinlet, lcm wide with | | I | 1 | I | 1 | I | I | \| |  |
| 1 |  | 1 | 158 orthoclase. |  | 1 | I | 1 |  | I | I |  |
|  |  |  | \|At:85.6-91.4 -very broken. | I | I | I | I | I | I | I |  |
| 191.4 | 199.0 | 1100 | \|Breccia | | I | I | I | I |  | I | I |  |
| 1 | I | 1 | \| -ash tuff, light grey/light tan. | | I | I | 1 | I | I |  | \| |  |
| 1 | I | 11 | \| -rare mariposite. | |  | I | I | 1 | I | I |  |  |
| I | 1 | I | \| -light tan clasts with darker light grey/| |  | I | I | I | I |  | 1 |  |
| 1 |  | , | 1 light tan matrix. \| |  | I |  | 1 |  |  | 1 |  |
| I | 1 |  | \| - minor dolomitic carb. with $\mathrm{SiO}_{2}$ \| | $1 \mathrm{C4} 0046$ | 198.0 | 1100.0 | 2m | 961 | 0.41 | 71 | 241 |
| 1 | I | 1 | throughout. ${ }^{2}$ | $1 \mathrm{C40047}$ | 1100.0 | \|102.0 | 2m | 1361 | 0.21 | 81 | 481 |
| I | \| | I | -multiple fracturing. \| | $1 \mathrm{C40048}$ | 1102.0 | 1104.0 | 2m | 971 | 0.21 | 81 | 141 |
| I | \| | 1 | \| -minor dark blood red hematite(?). | |  |  |  | 1 |  |  | 1 |  |
| 1 | I | I | \| through matrix (increasing at 97.4-98.0) |  | I | I | I | \| |  | I |  |
| 1 | 1 | 1 | \| -pyrite- diseminated, anhedral and minor | |  | I | 1 | 1 | I | I | 1 |  |
| 1 | \| | 11 | 1 sheet. |  | I | 1 | 1 | I | I | 1 |  |
| 1 | 1 | 1 | \| -very fine grained. |  | 1 | 1 | 1 | 1 | 1 | 1 |  |

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ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: NOV 31988 852 E. HASTINGS ST. VANCOUVER BC. VGA 1R6 PHONE (604)253-3158 FAX (604)253-1716 DATE REPORT MAILED:

GEOCHEMICAL ANALYSIS CERTIFICATE




GEOTECH CAPITAL CORPORATION PROJECT BOG G FILE \# 88-5640 Page 1


| SAMPLE\# | Cu | Pb | Zn | Ag |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PPM | PPM | PPM | PPM | PPM | PPB |  |  |
| C 56537 | 99 | 11 | 353 | . 4 | 27 | 69 | 88-5 | 108.7-10.7 |
| C 56538 | 92 | 10 | 323 | . 1 | 8 | 13 |  | 120.3-122.8 |
| C 56539 | 86 | 4 | 128 | . 4 | 7 | 4 |  | $71.0-73.6$ |
| C 56540 | 71 | 4 | 91 | . 2 | 6 | 1 |  | 62.4-64.4 |
| C 56541 | 75 | 5 | 73 | . 3 | 5 | 1 |  | 60.4-62.4 |
| C 56542 | 65 | 3 | 81 | . 2 | 41 | 9 |  | $50.0-52.0$ |
| C 56543 | 71 | 4 | 60 | . 2 | 6 | 1 |  | 47.3-49.3 |
| C 56544 | 72 | 2 | 52 | . 2 | 32 | 2 |  | 24.2-26.2 |
| C 56545 | 84 | 4 | 79 | . 1 | 7 | 1 |  | $14.2-16.2$ |
| C 56551 | 18 | 16 | 49 | . 3 | 7 | 16 | 89.6 | 10.7-12.0 |
| C 56552 | 29 | 6 | 48 | . 2 | 13 | 18 |  | $12.0-14.0$ |
| C 56553 | 91 | 8 | 48 | . 1 | 35 | 34 |  | 14.0-16.0 |
| C 56554 | 150 | 2 | 46 | . 2 | 57 | 23 |  | 10.0-18.0 |
| C 56555 | 102 | 5 | 47 | . 2 | 9 | 17 |  | 13.0 - 0.0 |
| C 56556 | 210 | 4 | 52 | . 1 | 4 | 6 |  | 20.0-22.0 |
| C 56557 | 126 | 8 | 42 | . 1 | 11 | 18 |  | $22.0 \cdot 24.0$ |
| C 56558 | 105 | 5 | 45 | . 2 | 51 | 23 |  | 24.0-26.0 |
| C 56559 | 149 | 4 | 69 | . 1 | 7 | 7 |  | $=6.0-28.0$ |
| C 56561 | 115 | 2 | 65 | . 1 | 12 | 17 |  | $30.0 \cdot 32.0$ |
| C 56562 | 78 | 2 | 71 | . 1 | 7 | 9 |  | $22.0-34.0$ |
| C 56563 | 81 | 2 | 73 | . 1 | 8 | 12 |  | 34.0-36.0 |
| C 56564 | 97 | 2 | 64 | . 1 | 10 | 8 |  | $36.0-300$ |
| C 56565 | 116 | 2 | 52 | . 1 | 5 | 7 |  | $23.0-40.0$ |
| C 56566 | 109 | 2 | 51 | . 1 | 7 | 5 |  | $40.0-4=.0$ |
| C 56567 | 28 | 2 | 53 | . 1 | 4 | 4 |  | $42.0-4.8$ |
| C 56568 | 48 | 5 | 60 | . 1 | 4 | 7 |  | 44.2 .46 .0 |
| C 56569 | 53 | 5 | 35 | . 1 | 7 | 8 |  | 46.0-43.0 |
| C 56570 | 61 | 4 | 46 | . 1 | 10 | 11 |  | 48.0-50.0 |
| C 56571 | 103 | 2 | 51 | . 1 | 6 | 8 |  | 50.3 \% |
| C 56572 | 34 | 2 | 51 | . 1 | 3 | 3 |  | $52.0 \cdot 54.0$ |
| C 56573 | 118 | 5 | 67 | . 2 | 9 | 19 |  | $\therefore 4.0-56.0$ |
| C 56574 | 63 | 6 | 61 | . 2 | 4 | 18 |  | $56.0 \cdot 58.0$ |
| STD C/AU-R | 59 | 36 | 132 | 6.6 | 44 | 490 |  |  |

GEOTECH CAPITAL CORPORATION PROJECT BOGG FILE \# 88-5640 Page 3

| SAMPLE\# | $\begin{array}{r} \mathrm{Cu} \\ \mathrm{PPM} \end{array}$ | $\begin{array}{r} \mathrm{Pb} \\ \mathrm{PPM} \end{array}$ | $\begin{array}{r} \mathrm{Zn} \\ \mathrm{PPM} \end{array}$ | $\begin{array}{r} \mathrm{Ag} \\ \mathrm{PPM} \end{array}$ | As PPM | $\begin{aligned} & A u^{*} \\ & \text { PPB } \end{aligned}$ |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C 56575 | 76 | 4 | 41 | . 1 | 3 | 11 | 83-6 | 58.2-6.2.0 |
| C 56576 | 28 | 5 | 44 | . 1 | 4 | 4 |  | 60.0-62.0 |
| C 56577 | 30 | 2 | 41 | . 1 | 3 | 30 |  | 62,0-64.0 |
| C 56578 | 55 | 8 | 63 | . 1 | 7 | 5 |  | 64.0-66.0 |
| C 56579 | 39 | 4 | 57 | . 1 | 7 | 7 |  | 6.) ${ }^{\text {-68.0 }}$ |
| C 56580 | 26 | 3 | 45 | . 1 | 2 | 3 |  | 68.0-70.0 |
| C 56581 | 28 | 6 | 45 | . 2 | 5 | 890 |  | 70.0-72.0 |
| C 56582 | 51 | 8 | 67 | . 1 | 2 | 12 |  | 72.50 .74 .0 |
| C 56583 | 36 | 2 | 77 | . 1 | 2 | 3 |  | 74.0-76.0 |
| C 56584 | 86 | 2 | 90 | . 3 | 2 | 6 |  | $76.0 \cdot 78.0$ |
| C 56585 | 43 | 4 | 56 | . 1 | 3 | 3 |  | 78.0-82.0 |
| C 56586 | 35 | 8 | 55 | . 2 | 3 | 6 |  | $80.0-82.0$ |
| C 56587 | 72 | 4 | 55 | . 1 | 3 | 3 |  | 82.0-84.0 |
| C 56588 | 26 | 2 | 68 | . 1 | 8 | 2 |  | 84.0-86.0 |
| C 56589 | 84 | 4 | 66 | . 1 | 10 | 4 |  | 86.0-88.0 |
| C 56590 | 33 | 7 | 70 | . 1 | 7 | 2 |  | 88.0 .90 .0 |
| C 56591 | 88 | 2 | 63 | . 2 | 5 | 7 |  | 90.0-92.0 |
| C 56592 | 104 | 7 | 68 | . 1 | 2 | 2 |  | 92.0 .94 .0 |
| C 56593 | 99 | 8 | 93 | . 2 | 3 | 6 |  | $94.0-9.0$ |
| C 56594 | 72 | 9 | 87 | . 1 | 7 | 2 |  | 96.0-94.0 |
| C 56595 | 87 | 2 | 86 | . 1 | 3 | 3 |  | 98.0-100.0 |
| C 56596 | 111 | 3 | 84 | . 1 | 6 | 1 |  | 100.0-102.0 |
| C 56597 | 43 | 3 | 69 | . 1 | 10 | 2 |  | 102.0-104.0 |
| C 56598 | 93 | 74 | 212 | . 1 | 2 | 33 |  | 104.0-106.0 |
| C 56599 | 57 | 5 | 202 | . 1 | 4 | 10 |  | 106.0-108.0 |
| C 56600 | 108 | 5 | 100 | . 1 | 4 | 7 |  | 108.0-110.0 |
| C 56601 | 111 | 15 | 199 | . 2 | 12 | 12 |  | 12 |
| C 56602 | 100 | 6 | 78 | 1 | 11 | 7 |  | $112.0-113.4$ |
| STD C/AU-R | 60 | 38 | 132 | 6.7 | 40 | 510 |  |  |

